INTERFACE ENGINEERING
100% EMPLOYEE OWNED

Interface Engineering, Inc.
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

Luminaire Cutsheets

Klamath Community College, College of Cosmetology
2025-1011

Prepared for:

BBT Architects, Inc.

Prepared by:

Chris Roybal, LC, Assoc. IALD

March 11, 2026

INTERFACE ENGINEERING

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Pleat Box
Xavier Mañosa & Mashallah

marset

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Pleat box Xavier Mañosa & Mashallah

marset

The idea behind the Pleat Box is a sophisticated combination between a digitally designed crease in a piece of cloth and a silhouette that is applied to a ceramic base.

The alchemy of the craft process leaves unpredictable traces, small marks in the metal glaze, tiny cracks in the polish... little flaws that mark the unique personality of every lamp.

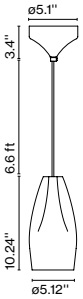
Pleat Box 13

Code	Finish
A636-408-3535	White - White
A636-408-3549	White - Gold
A636-408-3835	Grey - White
A636-408-4135	Terracotta - White
A636-408-3949	Black - Gold
A636-408-4235	Ocher - White
A636-408-4535	Dark Green - White
A636-408-4549	Dark Green - Gold

Dimmable: Based on specified lamping
Integrated dimmer: No
Dimming protocols: Based on specified lamping
Supply voltage: 120V

Materials
Shade: Ceramic with the inner part in brilliant white enamel or gold
Canopy: Ceramicglass

Socket: E26
Suggested lamping: LED TYPE A, 11W max
Lamping not included



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Pleat Box 13 LED

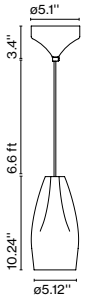
Code	Finish
A636-409-3535-27K	White - White
A636-409-3549-27K	White - Gold
A636-409-3835-27K	Grey - White
A636-409-4135-27K	Terracotta - White
A636-409-3949-27K	Black - Gold
A636-409-4235-27K	Ocher - White
A636-409-4535-27K	Dark Green - White
A636-409-4549-27K	Dark Green - Gold

Dimmable: No

Materials
Shade: Ceramic with the inner part in brilliant white enamel or gold
Canopy: Ceramic
Cord: Fabric

LED included

Electrical
Electrical Rating: 90-264VAC 6W
Luminaire: 165lm
CCT: 2700K
CRI: 90



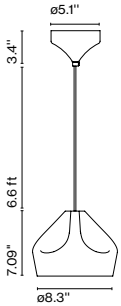
Pleat Box 24

Code	Finish
A636-410-3535	White - White
A636-410-3549	White - Gold
A636-410-3835	Grey - White
A636-410-4135	Terracotta - White
A636-410-3949	Black - Gold
A636-410-4235	Ocher - White
A636-410-4535	Dark Green - White
A636-410-4549	Dark Green - Gold

Dimmable: Based on specified lamping
Integrated dimmer: No
Dimming protocols: Based on specified lamping
Supply voltage: 120V

Materials
Shade: Ceramic with the inner part in brilliant white enamel or gold
Canopy: Ceramicglass

Socket: E26
Suggested lamping: LED TYPE A, 11W max
Lamping not included



Pleat Box 24 LED

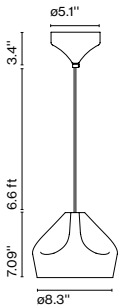
Code	Finish
A636-411-3535-27K	White - White
A636-411-3549-27K	White - Gold
A636-411-3835-27K	Grey - White
A636-411-4135-27K	Terracotta - White
A636-411-3949-27K	Black - Gold
A636-411-4235-27K	Ocher - White
A636-411-4535-27K	Dark Green - White
A636-411-4549-27K	Dark Green - Gold

Dimmable: Yes
Integrated dimmer: No
Dimming protocols: Phase cut (ELV)

Materials
Shade: Ceramic with the inner part in brilliant white enamel or gold
Canopy: Ceramic
Cord: Fabric

LED included

Electrical
Electrical Rating: 100-120VAC 14W
Luminaire: 113lm
CCT: 2700K
CRI: 90



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Pleat box Xavier Mañosa & Mashallah

marset

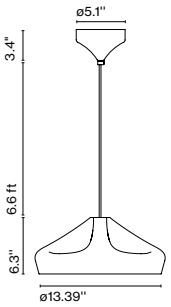
Pleat Box 36

Code	Finish
A636-412-3535	White - White
A636-412-3549	White - Gold
A636-412-3835	Grey - White
A636-412-4135	Terracotta - White
A636-412-3949	Black - Gold
A636-412-4235	Ocher - White
A636-412-4535	Dark Green - White
A636-412-4549	Dark Green - Gold

Dimmable: Based on specified lamping
Integrated dimmer: No
Dimming protocols: Based on specified lamping
Supply voltage: 120V

Materials
Shade: Ceramic with the inner part in brilliant white enamel or gold
Canopy: Ceramicglass

Socket: E12
Suggested lamping: LED TYPE G16.5, 5W max
Lamping not included



Pleat Box 36 LED

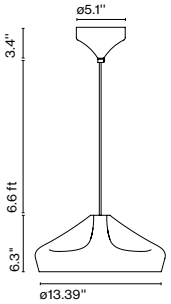
Code	Finish
A636-413-3535-27K	White - White
A636-413-3549-27K	White - Gold
A636-413-3835-27K	Grey - White
A636-413-4135-27K	Terracotta - White
A636-413-3949-27K	Black - Gold
A636-413-4235-27K	Ocher - White
A636-413-4535-27K	Dark Green - White
A636-413-4549-27K	Dark Green - Gold

Dimmable: Yes
Integrated dimmer: No
Dimming protocols: Phase cut (ELV)

Materials
Shade: Ceramic with the inner part in brilliant white enamel or gold
Canopy: Ceramic
Cord: Fabric

LED included

Electrical
Electrical Rating: 100-120VAC 14W
Luminaire: 233lm
CCT: 2700K
CRI: 90



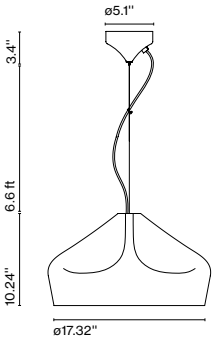
Pleat Box 47

Code	Finish
A636-414-3535	White - White
A636-414-3549	White - Gold
A636-414-3835	Grey - White
A636-414-4135	Terracotta - White
A636-414-3949	Black - Gold
A636-414-4235	Ocher - White
A636-414-4535	Dark Green - White
A636-414-4549	Dark Green - Gold

Dimmable: Based on specified lamping
Integrated dimmer: No
Dimming protocols: Based on specified lamping
Supply voltage: 120V

Materials
Shade: Ceramic with the inner part in brilliant white enamel or gold
Canopy: Ceramicglass

Socket: E26
Suggested lamping: LED TYPE A, 11W max
Lamping not included



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Pleat box Xavier Mañosa & Mashallah

marset

Pleat Box 47 LED

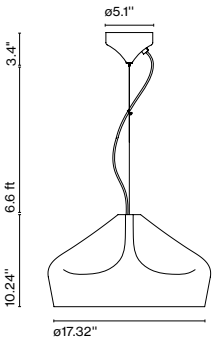
Code	Finish
A636-415-3535-27K	White - White
A636-415-3549-27K	White - Gold
A636-415-3835-27K	Grey - White
A636-415-4135-27K	Terracotta - White
A636-415-3949-27K	Black - Gold
A636-415-4235-27K	Ocher - White
A636-415-4535-27K	Dark Green - White
A636-415-4549-27K	Dark Green - Gold

Dimmable: Yes
Integrated dimmer: No
Dimming protocols: Phase cut (ELV)

Materials
Shade: Ceramic with the inner part in brilliant white enamel or gold
Canopy: Ceramicglass

LED included

Electrical
Electrical Rating: 90-135VAC 21W
Luminaire: 625lm
CCT: 2700K
CRI: 90



⚠**WARNING.** California Proposition 65 Warning for California Consumers. This product can expose you to chemicals including wood dust and lead which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

marsetusa@marset.com
www.marset.com

Download
Photometric data file (LDT or IES)
2D, 3D, Photometric Data
Assembly instructions

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SCOUT 4048/4049

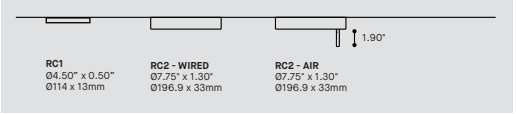
PROJECT PROJET

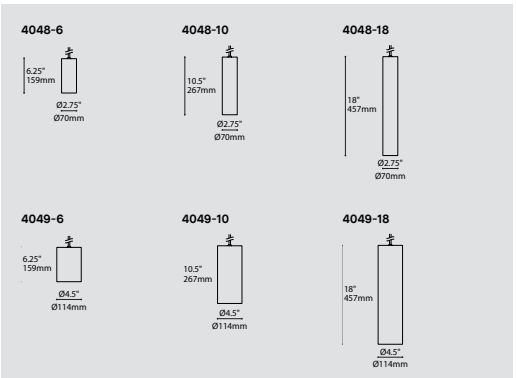
SPEC TYPE

NOTES

FINISH

MOUNTING OPTIONS OPTIONS DE MONTAGE





QUICKSHIP CLICK HERE / CLIQUEZ ICI

ORDERING SPECIFICATION SPÉCIFICATION DE COMMANDE — CODE

MODEL MODÈLE

4048-6	SCOUT Ø2.75 - 6"
4048-10	SCOUT Ø2.75 - 10"
4048-18	SCOUT Ø2.75 - 18"
4049-6	SCOUT Ø4.5 - 6"
4049-10	SCOUT Ø4.5 - 10"
4049-18	SCOUT Ø4.5 - 18"

LIGHT SOURCE SOURCE LUMINEUSE

LED	REGULAR OUTPUT
LED.HO	HIGH OUTPUT

COLOR TEMPERATURE TEMPÉRATURE DE COULEUR

27	2700K
30	3000K
35	3500K
40	4000K

* LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE

COLOR RENDERING INDEX (CRI) INDICE DE RENDU DE COULEUR (IRC)

80	80+ CRI
90*	90+ CRI

* LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE

VOLTAGE VOLTAGE

120V	120 VOLT
277V	277 VOLT

CONTROL OPTION OPTION DE CONTRÔLE

DV	0-10V DIMMING (120V-277V)
DP	PHASE DIMMING (120V ONLY)
NLTAIR2 *	NLIGHT AIR CONTROL GEN 2
NLIGHT *	NLIGHT WIRED CONTROL

* REQUIRES RC2 CANOPY.
* EMERGENCY BATTERY NOT AVAILABLE WITH NLIGHT OPTIONS
REFER TO NLIGHT GUIDE AND INSTALLATION SHEET FOR ALL REQUIREMENTS.

EMERGENCY BATTERY BATTERIE D'URGENCE

COMPATIBLE WITH RC MOUNTING ONLY. FOR 120-277V. EM DRIVER BOX INCLUDED, INSTALLED REMOTELY. SEE EM GUIDE FOR DETAILS. WITH DV DIMMING OPTION (FOR 404X-10 & 404X-18) AN ADDITIONAL POWERCABLE WILL DROP FROM CEILING NEXT TO MAIN CABLE.

EMB*	EMERGENCY BATTERY FOR REMOTE BOX

* 3981EA ACCESSORY IS REQUIRED

BEAM ANGLE ANGLE DE FAISCEAU

NA	NARROW (24°)
ME	MEDIUM (45°)
WI	WIDE (4049 ONLY)

OPTICAL ACCESSORIES ACCESSOIRES OPTIQUES

CLR	CLEAR GLASS LENS
FRO	FROSTED GLASS LENS
HON	HONEYCOMB LOUVER
SOL	SOLITE SOFTENING LENS

STEM OR CABLE TIGE OU CABLE

S10*	3/8" (10MM) STEM, NOT FIELD ADJUSTABLE
C	BLACK OR WHITE CABLE, FIELD ADJUSTABLE

STEM OR CABLE LENGTH LONGUEUR DE TIGE OU CABLE

36	36" CABLE (STD LENGTH)
60	60" CABLE (STD LENGTH)
****	CUSTOM CABLE OR STEM LENGTH (PLEASE SPECIFY)

FOR OVERALL LENGTH PLEASE CONTACT YOUR EUREKA REPRESENTATIVE

MOUNTING MONTAGE

	ROUND CANOPY / PAVILLON ROND
RC1*	SCREWLESS 0,5" CANOPY (2471C)
RC2	NLIGHT SCREWLESS CANOPY Ø7.75" X 1 .30 " (2474H)

* 3983 ACCESSORY PROVIDED FOR 404X-6 WITH 2471C CANOPY

CANOPY FINISH FINI PAVILLON

BLKE	BLACK FINE TEXTURE
WHE	WHITE FINE TEXTURE
MATCH*	COLOR MATCH WITH LUMINAIRE

* LONGER LEAD TIME MAY APPLY, CONTACT YOUR EUREKA REPRESENTATIVE

POWER CORD OR STEM FINISH FINI CABLE D'ALIMENTATION OU TIGE

BLK	BLACK POWER CORD
WH	WHITE POWER CORD
BLKE	BLACK STEM
WHE	WHITE STEM
MATCH*	COLOR MATCH STEM WITH LUMINAIRE

* LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE

TUBE FINISH FINI TUBE

BLKE	BLACK	**CBE***	CHOCOLATE BROWN	**NBE***	NAVY BLUE
WHE	WHITE	**CPE***	CLAY PINK	**SBE***	SAND BEIGE
CHM*	CHAMPAGNE METALLIC	**DBE***	DYNAMIC BLUE	**SGE***	SAGE GREY
SIM*	SILVER METALLIC	**GGE***	GRASS GREEN	**STE***	SUMMER TEAL
AYE*	APRICOT YELLOW	**HGE***	HUNTER GREEN		
BRE*	BRICK RED	**LNE***	LUNAR GREY		

* LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE

EUREKA

SPECIFICATION

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BAFFLE FINISH FINI DÉFLECTEUR					
BLKE	BLACK	**CBE***	CHOCOLATE BROWN	**NBE***	NAVY BLUE
WHE	WHITE	**CPE***	CLAY PINK	**SBE***	SAND BEIGE
CHM*	CHAMPAGNE METALLIC	**DBE***	DYNAMIC BLUE	**SGE***	SAGE GREY
SIM*	SILVER METALLIC	**GGE***	GRASS GREEN	**STE***	SUMMER TEAL
AYE*	APRICOT YELLOW	**HGE***	HUNTER GREEN		
BRE*	BRICK RED	**LNE***	LUNAR GREY		

* LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE

ACCESSORY ACCESSOIRE	
3983	DEEP JUNCTION BOX (PROVIDED FOR 4048-6 AND 4049-6 WITH CANOPY)

ACCESSORY EMERGENCY BATTERY ACCESSOIRE BATTERIE D'URGENCE	
3981EA	ELECTRICAL BOX FOR EMB EMERGENCY BATTERY

INTERFACE ENGINEERING

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SCOUT 4048

QUICKSHIP MAXIMUM 20 UNITS / MAXIMUM 20 UNITÉS

PROJECT PROJET

SPEC TYPE

NOTES

FINISH FINI

BLKE

WHE

OVERALL HEIGHT HAUTEUR HORS TOUT

	LED 0.50" CANOPY
MOUNTING	2471C
CABLE & 4048-6	69.70"
CABLE & 4048-10	73.95"
CABLE & 4048-18	81.45"

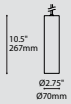
MOUNTING OPTIONS OPTIONS DE MONTAGE

* OVERALL HEIGHT DOES NOT INCLUDE TRACK THICKNESS

STEM OR CABLE OPTION OPTIONS DE TIGE OU CABLE

4048-6

4048-10



4048-18

ORDERING SPECIFICATION SPÉCIFICATION DE COMMANDE		CODE
QUICKSHIP		**QS**
QS	QUICKSHIP	
MODEL MODÈLE		
4048-6	SCOUT 6"	
4048-10	SCOUT 10"	
4048-18	SCOUT 18"	
LIGHT SOURCE SOURCE LUMINEUSE		
LED	REGULAR OUTPUT	
LED.HO	HIGH OUTPUT	
COLOR TEMPERATURE TEMPÉRATURE DE COULEUR		
30	3000K	
35	3500K	
40	4000K	
COLOR RENDERING INDEX (CRI) INDICE DE RENDU DE COULEUR (IRC)		**80**
80	80+ CRI	
VOLTAGE VOLTAGE		
120V	120 VOLT	
277V	277 VOLT	
DIMMING OPTION OPTION DE GRADATION		
DV	0-10V DIMMING (120V-277V)	
DP	PHASE DIMMING (120V ONLY)	
	LED DIMMING DRIVER IS STANDARD IN THIS PRODUCT, PLEASE SPECIFY YOUR DIMMING TYPE	
BEAM ANGLE ANGLE DE FAISCEAU		
NA	NARROW (24°)	
ME	MEDIUM (45°)	
OPTICAL ACCESSORIES ACCESSOIRES OPTIQUES		
CLR	CLEAR GLASS LENS	
FRO	FROSTED GLASS LENS	
HON	HONEYCOMB LOUVER	
SOL	SOLITE SOFTENING LENS	
CABLE CABLE		**C**
C*	BLACK OR WHITE CABLE, FIELD ADJUSTABLE	
	*FOR WHITE STRUCTURE: WHITE CABLE, FOR OTHER STRUCTURE FINISH: BLACK CABLE	
CABLE LENGTH LONGUEUR DE CABLE		
60	60" CABLE (STD LENGTH)	
******	CUSTOM CABLE LENGTH (PLEASE SPECIFY)	
	FOR OVERALL LENGTH, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE	
MOUNTING MONTAGE		**RC**
RC	ROUND CANOPY / PAVILLON ROND SCREWLESS 0,5" CANOPY (2471C)	
CANOPY FINISH FINI PAVILLON		
BLKE	BLACK FINE TEXTURE	
WHE	WHITE FINE TEXTURE	
STRUCTURE FINISH FINI STRUCTURE		
BLKE	BLACK FINE TEXTURE	
WHE	WHITE FINE TEXTURE	
BAFFLE FINISH FINI DÉFLECTEUR		
BLKE	BLACK FINE TEXTURE	
WHE	WHITE FINE TEXTURE	
ACCESSORY ACCESSOIRE		
3983	DEEP JUNCTION BOX (PROVIDED FOR 4048-6 WITH CANOPY)	

ADDITIONAL OPTIONS AVAILABLE ON STANDARD SHIPPING / OPTIONS ADDITIONNELLES DISPONIBLES EN LIVRAISON STANDARD

EUREKA **SPECIFICATION**

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SCOUT 4049

QUICKSHIP

PROJECT PROJET

SPEC TYPE

NOTES

FINISH FINI

BLKE

WHE

OVERALL HEIGHT HAUTEUR HORS TOUT

	LED 0.50" CANOPY
MOUNTING	2471C
CABLE & 4049-6	69.70"
CABLE & 4049-10	73.95"
CABLE & 4049-18	81.45"

MOUNTING OPTIONS OPTIONS DE MONTAGE

STEM OR CABLE OPTION OPTIONS DE TIGE OU CABLE

4049-6

4049-10

40499-18

ORDERING SPECIFICATION SPÉCIFICATION DE COMMANDE		CODE
QUICKSHIP		
QS5	QUICKSHIP 5 DAYS - MAXIMUM 5 UNITS QUICKSHIP 5 JOURS - MAXIMUM 5 UNITÉS	
QS10	QUICKSHIP 10 DAYS - MAXIMUM 20 UNITS QUICKSHIP 10 JOURS - MAXIMUM 20 UNITÉS	
MODEL MODÈLE		
4049-6	SCOUT 6"	
4049-10	SCOUT 10"	
4049-18	SCOUT 18"	
LIGHT SOURCE SOURCE LUMINEUSE		
LED	REGULAR OUTPUT	
LED.HO	HIGH OUTPUT	
COLOR TEMPERATURE TEMPÉRATURE DE COULEUR		
30	3000K	
35	3500K	
40	4000K	
COLOR RENDERING INDEX (CRI) INDICE DE RENDU DE COULEUR (IRC)		**80**
80	80+ CRI	
VOLTAGE VOLTAGE		
120V	120 VOLT	
277V	277 VOLT	
DIMMING OPTION OPTION DE GRADATION		
DV	0-10V DIMMING (120V-277V)	
DP	PHASE DIMMING (120V ONLY)	
	LED DIMMING DRIVER IS STANDARD IN THIS PRODUCT, PLEASE SPECIFY YOUR DIMMING TYPE	
BEAM ANGLE ANGLE DE FAISCEAU		
NA	NARROW (28°)	
ME	MEDIUM (48°)	
WI	WIDE (64°)	
OPTICAL ACCESSORIES ACCESSOIRES OPTIQUES		
CLR	CLEAR GLASS LENS	
FRO	FROSTED GLASS LENS	
HON	HONEYCOMB LOUVER	
SOL	SOLITE SOFTENING LENS	
CABLE CABLE		**C**
C*	BLACK OR WHITE CABLE, FIELD ADJUSTABLE	
	*FOR WHITE STRUCTURE: WHITE CABLE, FOR OTHER STRUCTURE FINISH: BLACK CABLE	
CABLE LENGTH LONGUEUR DE CABLE		
60	60" CABLE (STD LENGTH)	
******	CUSTOM CABLE LENGTH (PLEASE SPECIFY)	
	FOR OVERALL LENGTH, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE	
MOUNTING MONTAGE		**RC**
RC	ROUND CANOPY / PAVILLON ROND SCREWLESS 0,5" CANOPY (2471C)	
CANOPY FINISH FINI PAVILLON		
BLKE	BLACK FINE TEXTURE	
WHE	WHITE FINE TEXTURE	
CYLINDER FINISH FINI CYLINDRE		
BLKE	BLACK FINE TEXTURE	
WHE	WHITE FINE TEXTURE	
BAFFLE FINISH FINI DÉFLECTEUR		
BLKE	BLACK FINE TEXTURE	
WHE	WHITE FINE TEXTURE	
ACCESSORY ACCESSOIRE		
3983	DEEP JUNCTION BOX (PROVIDED FOR 4049-6 WITH CANOPY)	

ADDITIONAL OPTIONS AVAILABLE ON STANDARD SHIPPING / OPTIONS ADDITIONNELLES DISPONIBLES EN LIVRAISON STANDARD

EUREKA

SPECIFICATION

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TEL 503.382.2266
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SCOUT 404X FOR ARENA 82X0

PROJECT PROJET

SPEC TYPE

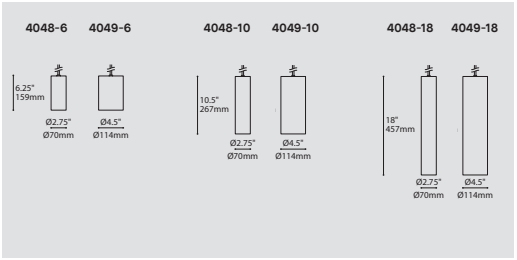
NOTES

ADAPTER FINISH FINI DE L'ADAPTATEUR

BLKE

WHE

SHADE & BAFFLE FINISH FINI ABAT-JOUR & DÉFLECTEUR



ORDERING SPECIFICATION SPÉCIFICATION DE COMMANDE		CODE
MODEL MODÈLE		
4048-6	SCOUT 6" Ø2.75''	
4048-10	SCOUT 10" Ø2.75''	
4048-18	SCOUT 18" Ø2.75''	
4049-6	SCOUT 6" Ø4.5''	
4049-10	SCOUT 10" Ø4.5''	
4049-18	SCOUT 18" Ø4.5''	
LIGHT SOURCE SOURCE LUMINEUSE		**LEDA**
LEDA	SPECIAL OUTPUT FOR ARENA, 8W * TOTAL DC LOAD OF INSTALLED LIGHT SOURCES MUST NOT EXCEED 90W OR 180W DEPENDING ON THE SELECTED OPTION	
COLOR TEMPERATURE TEMPÉRATURE DE COULEUR		
27*	2700K	
30	3000K	
35	3500K	
40	4000K	
	*LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE	
COLOR RENDERING INDEX INDICE DE RENDU DE COULEUR (IRC)		
80	80+ CRI	
90*	90+ CRI *LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE	
BEAM ANGLE ANGLE DE FAISEAU		
NA	NARROW (24°)	
ME	MEDIUM (45°)	
OPTICAL ACCESSOIRES ACCESSOIRES OPTIQUES		
CLR	CLEAR GLASS LENS	
FRO	FROSTED GLASS LENS	
HON	HONEYCOMB LOUVER	
SOL	SOLITE SOFTENING LENS	
CABLE CÂBLE		**C**
C	BLACK OR WHITE CABLE, FIELD ADJUSTABLE	
CABLE LENGTH LONGUEUR DE CÂBLE		
24	24" CABLE (STD LENGTH)	
****	CUSTOM CABLE LENGTH (PLEASE SPECIFY)	
MOUNTING MONTAGE		
TAA	ARENA ADAPTOR FOR ARENA SQUARE & RECTANGLE 8220 & ARENA STRAIGHT 8210	
TAB	ARENA ADAPTOR FOR ARENA RING 8200	
ADAPTER FINISH FINI ADAPTATEUR		
BLKE	BLACK FINE TEXTURED	
WHE	WHITE FINE TEXTURED	
POWER CORD FINISH FINI ADAPTATEUR		
BLK	BLACK POWER CORD	
WH	WHITE POWER CORD	

CYLINDER FINISH FINI CYLINDRE

BLKE	BLACK	**CBE***	CHOCOLATE BROWN	**NBE***	NAVY BLUE
WHE	WHITE	**CPE***	CLAY PINK	**SBE***	SAND BEIGE
CHM*	CHAMPAGNE METALLIC	**DBE***	DYNAMIC BLUE	**SGE***	SAGE GREY
SIM*	SILVER METALLIC	**GGE***	GRASS GREEN	**STE***	SUMMER TEAL
AYE*	APRICOT YELLOW	**HGE***	HUNTER GREEN		
BRE*	BRICK RED	**LNE***	LUNAR GREY		

RAL** PLEASE SPECIFY RAL CODE
*LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE

BAFFLE FINISH FINI DÉFLECTEUR

BLKE	BLACK	**CBE***	CHOCOLATE BROWN	**NBE***	NAVY BLUE
WHE	WHITE	**CPE***	CLAY PINK	**SBE***	SAND BEIGE
CHM*	CHAMPAGNE METALLIC	**DBE***	DYNAMIC BLUE	**SGE***	SAGE GREY
SIM*	SILVER METALLIC	**GGE***	GRASS GREEN	**STE***	SUMMER TEAL
AYE*	APRICOT YELLOW	**HGE***	HUNTER GREEN		
BRE*	BRICK RED	**LNE***	LUNAR GREY		

RAL** PLEASE SPECIFY RAL CODE
*LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE

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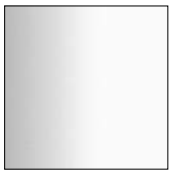
SCOUT - FINISH OPTIONS / OPTIONS DE FINIS Standard

BLKE
Black Textured



WHE
White Textured

Metallic

CHM
Champagne

SIM
Silver

Premium

AYE
Apricot
Yellow
Textured

BRE
Brick Red
Textured

CBE
Chocolate
Brown
Textured

CPE
Clay Pink
Textured

DBE
Dynamic Blue
Textured

GGE
Grass Green
Textured

HGE
Hunter Green
Textured

LNE
Lunar Gray
Textured

NBE
Navy Blue
Textured

SBE
Sand Beige
Textured

SGE
Sage Gray
Textured

STE
Summer Teal
Textured

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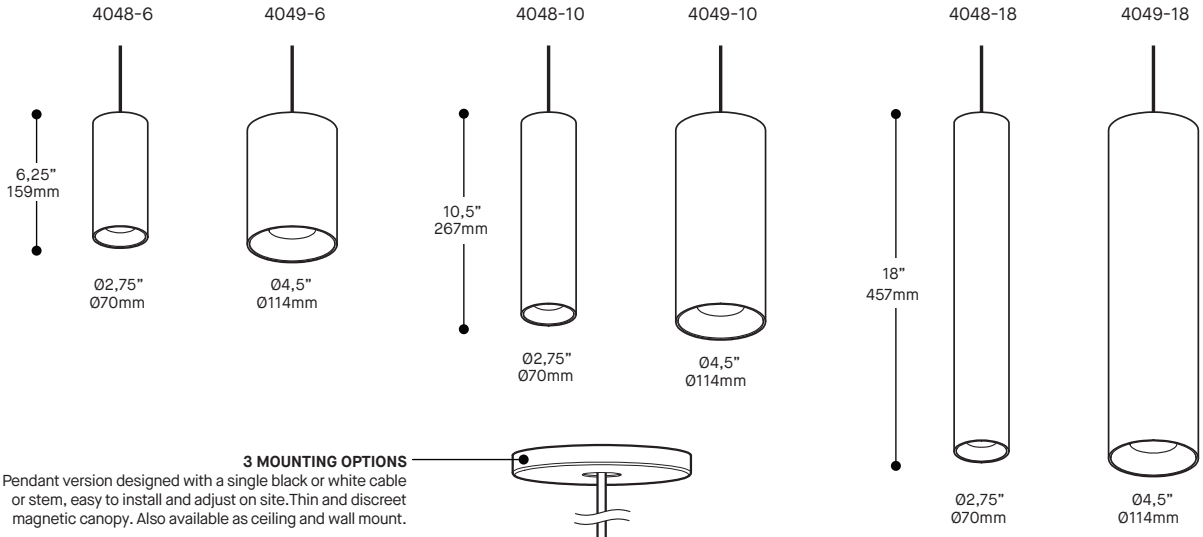
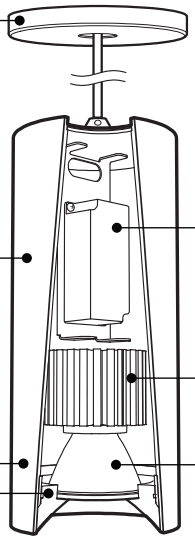
SCOUT



3 MOUNTING OPTIONS
Pendant version designed with a single black or white cable or stem, easy to install and adjust on site.Thin and discreet magnetic canopy. Also available as ceiling and wall mount.



6 FORMATS
Machined aluminium cylindrical structure.

2 DIMMING TYPE
Standard phase dimming (DP) or 0-10V dimming (DV).
Integrated LED driver (404x-10 et 404x-18).
Deep junction box (3983) included (404x-6).

2 OUTPUTS & 3 CCT
Extruded aluminium heatsink designed to efficiently offer regular and high output.

REFLECTORS & 3 OPTICAL ACCESSORIES
Narrow, medium or wide (xx49 only) beam angle reflector. Choice of optical accessories : clear lens, frosted lens or honeycomb louver.

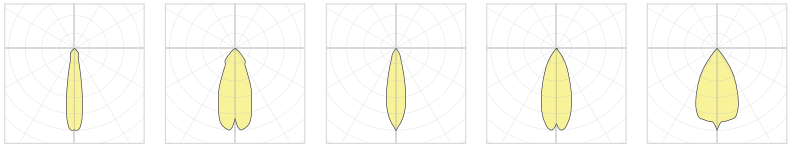
16 CYLINDER AND BAFFLE FINISHES
Many options offered in fine textured or metallic finish to fit your needs.

PRODUCT SPECIFICATION	XX48-NA		XX48-ME		XX49-NA		XX49-ME		XX49-WI	
PERFORMANCE	**REG**	**HO**	**REG**	**HO**	**REG**	**HO**	**REG**	**HO**	**REG**	**HO**
SYSTEM WATTAGE	9.5W	13.6W	9.5W	13.6W	13.7W	20W	13.7W	20W	13.7W	20W
DELIVERED LUMENS (4000K)	1051 LM	1425 LM	1051 LM	1425 LM	1394 LM	1907 LM	1509 LM	2070 LM	1472 LM	2021LM
EFFICACY	110.6LM/W	104.7LM/W	110.6LM/W	104.7LM/W	101.7LM/W	95.4LM/W	110.1M/W	103.5LM/W	107.4M/W	101LM/W
OTHER INFORMATIONS										
BEAM ANGLE	24°		45°		28°		48°		64°	
LUMINAIRE'S WEIGHT	1.44KG / 1.63KG / 1.96KG 3.16LBS/ 3.58LBS/ 4.32LBS		1.44KG / 1.63KG / 1.96KG 3.16LBS/ 3.58LBS/ 4.32LBS		1.87KG / 2.24KG / 2.75KG 4.12LBS/ 4.92LBS/ 6.05LBS		1.87KG / 2.24KG / 2.75KG 4.12LBS/ 4.92LBS/ 6.05LBS		1.87KG / 2.24KG / 2.75KG 4.12LBS/ 4.92LBS/ 6.05LBS	
L70 (LUMEN MAINTENANCE)	> 63 600 HRS		> 63 600 HRS		> 63 600 HRS		> 63 600 HRS		> 63 600 HRS	

EFFICACY MULTIPLIERS

CRI	CCT	FACTOR
80+	4000K	1.0
80+	3500K	0.99
80+	3000K	0.97
80+	2700K	0.94
90+	4000K	0.89
90+	3500K	0.86
90+	3000K	0.84
90+	2700K	0.80

LIGHT DISTRIBUTION



XX48 NARROW | XX48 MEDIUM | XX49 NARROW | XX49 MEDIUM | XX49 WIDE

Visit our website for warranty terms and conditions.

EUREKA

TECHNICAL DATA

V1.2 — 2025.05

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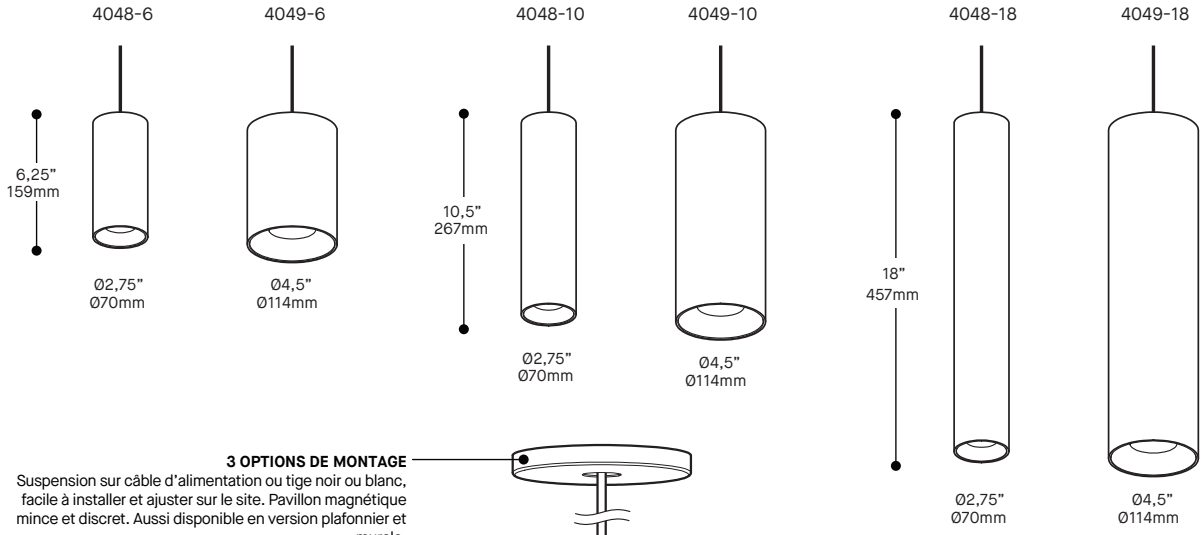
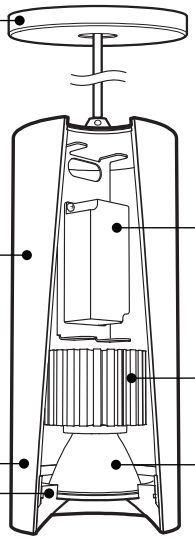
SCOUT



3 OPTIONS DE MONTAGE
Suspension sur câble d'alimentation ou tige noir ou blanc, facile à installer et ajuster sur le site. Pavillon magnétique mince et discret. Aussi disponible en version plafonnier et murale.



6 FORMATS
Structure cylindrique en aluminium usiné.

2 TYPES DE GRADATION
Gradation de type phase (DP) ou 0-10V (DV). Unité d'alimentation intégrée (modèles 404x-10 et 404x-18). Boîte de jonction octogonale profonde 3983 incluse (modèle 404x-6).

2 PUISSANCES & 3 TEMPÉRATURES DE COULEUR
Dissipateur thermique extrudé en aluminium efficace permettant d'offrir deux puissances différentes.

RÉFLECTEURS & 3 ACCESSOIRES OPTIQUES
Réflecteurs offrant un faisceaux lumineux étroit, moyen ou large (xx49 seulement). Choix d'accessoires optiques : lentille claire, lentille givrée ou grille en nid d'abeille.

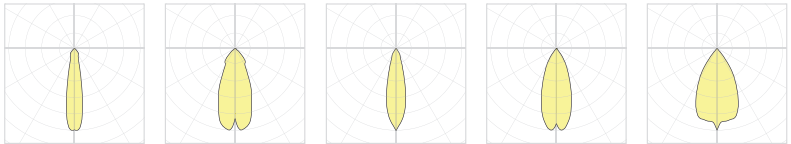
16 FINIS DE CYLINDRE ET DÉFLECTEUR
Plusieur options de finition architecturale finement texturée ou métallique pour tous vos besoins.

SPÉCIFICATION PRODUIT	XX48-NA		XX48-ME		XX49-NA		XX49-ME		XX49-WI	
PERFORMANCE	**REG**	**HO**	**REG**	**HO**	**REG**	**HO**	**REG**	**HO**	**REG**	**HO**
PUISSANCE TOTALE	9.5W	13.6W	9.5W	13.6W	13.7W	20W	13.7W	20W	13.7W	20W
LUMENS RÉELS (4000K)	1051 LM	1425 LM	1051 LM	1425 LM	1394 LM	1907 LM	1509 LM	2070 LM	1472 LM	2021LM
EFFICACITÉ	110.6LM/W	104.7LM/W	110.6LM/W	104.7LM/W	101.7LM/W	95.4LM/W	110.1M/W	103.5LM/W	107.4M/W	101LM/W
AUTRES INFORMATIONS										
ANGLE DE RAYONNEMENT	24°		45°		28°		48°		64°	
POIDS DU LUMINAIRE	1.44KG / 1.63KG / 1.96KG 3.16LBS/ 3.58LBS/ 4.32LBS		1.44KG / 1.63KG / 1.96KG 3.16LBS/ 3.58LBS/ 4.32LBS		1.87KG / 2.24KG / 2.75KG 4.12LBS/ 4.92LBS/ 6.05LBS		1.87KG / 2.24KG / 2.75KG 4.12LBS/ 4.92LBS/ 6.05LBS		1.87KG / 2.24KG / 2.75KG 4.12LBS/ 4.92LBS/ 6.05LBS	
L70 (MAINTENANCE DE LA LUMIÈRE)	> 63 600 H		> 63 600 H		> 63 600 H		> 63 600 H		> 63 600 H	

FACTEUR D'EFFICACITÉ

IRC	CCT	FACTEUR
80+	4000K	1.0
80+	3500K	0.99
80+	3000K	0.97
80+	2700K	0.94
90+	4000K	0.89
90+	3500K	0.86
90+	3000K	0.84
90+	2700K	0.80

DISTRIBUTION LUMINEUSE



XX48 ÉTROIT | XX48 MOYEN | XX49 ÉTROIT | XX49 MOYEN | XX49 LARGE

Visitez notre site Web pour les termes et conditions.

EUREKA

DONNÉES TECHNIQUES

V1.2 — 2025.05

INTERFACE ENGINEERING

Interface Engineering
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TEL 503.382.2266
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JUNCTION BOX 3981E

PROJECT PROJET

SPEC TYPE

NOTES

ORDERING SPECIFICATION SPÉCIFICATION DE COMMANDE | **CODE**

MODEL MODÈLE	
3981EA	APPROX. 10W MAX EMERGENCY BACKUP POWER
3981EB	APPROX. 5W MAX EMERGENCY BACKUP POWER

PRODUCT CHARACTERISTICS CARACTÉRISTIQUES DU PRODUIT

DESIGN: Remote junction box and cover with an emergency backup driver. Features matching wires and labelling to simplify installation. Is required to complete luminaires ordered with EMB remote emergency box option (selected models, refer to specification sheets. Other models possible upon request). Available in several power outputs, selected according to the luminaire power.

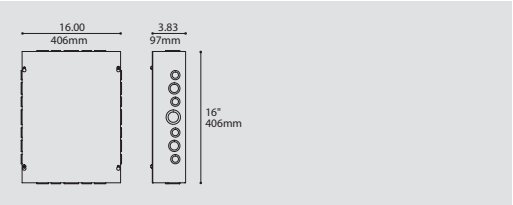
STRUCTURE: Die-stamped 16 gauge grey painted steel. Knockouts on all 4 sides from 1/2" to 1-1/4".

CERTIFIED: c-CSA-us, UL, RoHS, NEMA Type 1, FCC

CONCEPTION: Boîte de jonction à distance avec couvercle avec batterie d'urgence intégré. Contient des fils avec couleurs et étiquettage pour simplifier l'installation. Requis pour compléter un luminaire commandée avec l'option EMB (voir pages de spécification pour produits avec l'option EMB. Autres produits possibles sur demande). Disponible en plusieurs puissances, sélectionnées en fonction du luminaire.

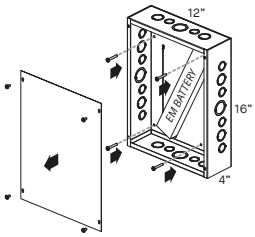
STRUCTURE: Acier plié de 16 jauge peinturé gris avec coins soudés. Débouchures sur 4 côtés 1/2" à 1-1/4".

CERTIFIÉ: c-CSA-us, UL, RoHS, NEMA Type 1, FCC



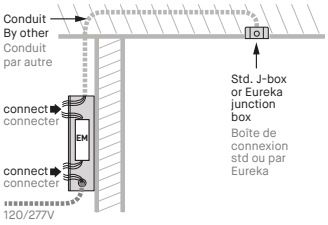
INSTALLATION SUMMARY SOMMAIRE D'INSTALLATION

STEP 1 ÉTAPE 1



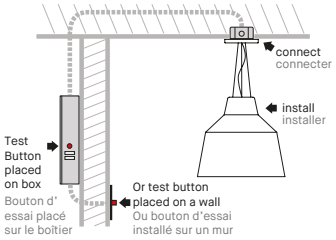
Remove cover and fasten box remotely to a wall or a ceiling.
Enlever le couvercle et fixer la boite à distance sur un mur ou un plafond.

STEP 2 ÉTAPE 2



Run conduit from box to junction box of luminaire. Conduit must have a minimum of 5 wires with wire gauge and maximum distance as per EM driver distance chart. Connect EM driver to conduit wires and ac branch circuit.
Faites passer le conduit de la boîte EM à la boîte de connexion du luminaire. Consulter le tableau de "distance maximale" disponible dans la feuille d'installation. Branchez la batterie EM avec les fils du conduit ainsi que la ligne 120V ou 277V.

STEP 3 ÉTAPE 3



Install luminaire & connect its wires to conduit. Install test button on wall or box (wall plate not supplied).
Installer le luminaire & connecter les fils au conduit. Installer le bouton d'essai sur le mur ou boîtier (plaque murale non fournie).

REFER ALSO TO INSTALLATION DRAWING AND EM GUIDE FOR MORE INFORMATION.
CONSULTEZ LE DESSIN D'INSTALLATION ET LE GUIDE EM POUR PLUS D'INFORMATIONS.

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3981E REMOTE EMERGENCY BOX KIT - **IOTA EM DRIVER**

SAFETY GUIDELINES :

> Follow safety instructions and guidlelines of EM battery/driver manufacturer for the specific model.
> Install by qualified personnel in accordance with the National Electrical Code and local regulations.
> Turn off power supply before installation or servicing the fixture.

EMB LOCATION :

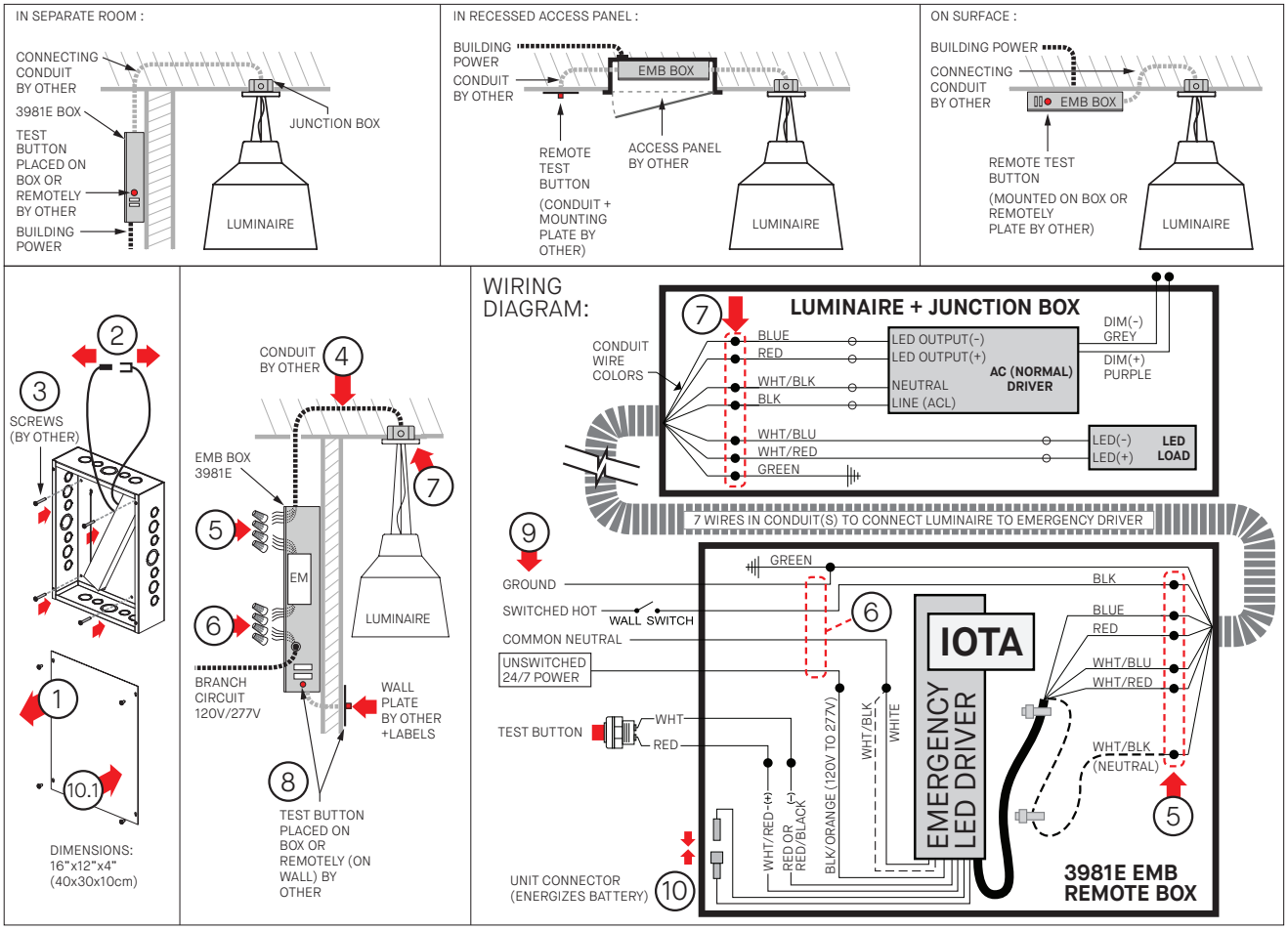
> The 3981E box connects to a luminaire ordered with an EMB option (which has specific EM WIRING).
> Consult our chart for maximum remote distance of EM battery to luminaire leds.
> Establish desired location for EMB box & EM test button on box or on a wall.

EM Remote Distance Chart

Maximum distance EM battery to Luminaire LEDs (Ft)

MAX EM BOX DISTANCE (Ft)		CONDUIT WIRE GAUGE (AWG)						
		10	12	14	16	18	20	22
LUMINAIRE DRIVER OUTPUT CURRENT* (Amps) *Contact Eureka	200mA	1043'	651'	413'	259'	163'	103'	65'
	350mA	596'	372'	236'	148'	93'	59'	37'
	500mA	417'	261'	165'	104'	65'	41'	26'
	700mA	298'	186'	118'	74'	47'	29'	18'
	1000mA	209'	130'	83'	52'	33'	21'	13'
	1400mA	149'	93'	59'	37'	23'	15'	9'
	2000mA	104'	65'	41'	26'	16'	10'	6'
	3000mA	70'	43'	28'	17'	11'	7'	4'

EMB PLACEMENT EXAMPLES :



INSTALLATION

1 -REMOVE BOX COVER.

2 -IF CONNECTED, DISCONNECT THE EM BATTERY 'UNIT CONNECTOR' (WHITE).

3 -SCREW BOX TO MOUNTING SURFACE (SCREWS NOT SUPPLIED)

4 -RUN CONDUIT FROM EMB BOX TO ELECTRICAL JUNCTION BOX OF LUMINAIRE. CONDUIT MUST HAVE MIN. 7 WIRES AND WIRE GAUGE AS PER DISTANCE CHART.

5 -CONNECT CONDUIT WIRES TO EM BATTERY AS PER WIRING DIAGRAM.
CAREFULLY NOTE WHICH WIRE COLORS ARE CONNECTED TOGETHER ON EACH END.

6 -CONNECT BATTERY TO AC BRANCH CIRCUIT : GROUND, NEUTRAL, 24/7 UNSWITCHED LINE (HOT) AND SWITCHED LINE (ON SAME CIRCUIT AS LUMINAIRE ON/OFF CONTROL).

7 -INSTALL SPECIFIC EM LUMINAIRE, CONNECT WIRES TO CONDUIT USING THE SAME CORRESPONDING COLORS NOTED AT THE EM BATTERY-CONDUIT CONNECTION.

8 -INSTALL EM BATTERY TEST BUTTON IN DESIRED LOCATION. WALL PLATE BY OTHER. ADD LABELS "PUSH TO TEST" & CHARGING INDICATOR LIGHT".

9 -SWITCH ON AC POWER.

10 -JOIN THE EM BATTERY CONVERTOR CONNECTOR. 10.1 -INSTALL BOX COVER.

11 -IF EMB IS FAR FROM THE LUMINAIRE, IDENTIFY TO WHICH LUMINAIRE IT IS CONNECTED.

AT THIS POINT POWER SHOULD BE CONNECTED TO BOTH THE AC DRIVER AND THE EMERGENCY DRIVER & TEST/CHARGE LIGHT SHOULD ILLUMINATE, INDICATING BATTERY IS CHARGING.

TESTING & EM DRIVER/BATTERY MAINTENANCE:

CONDUCT A SHORT-TERM DISCHARGE TEST AFTER THE EMERGENCY DRIVER HAS BEEN CHARGED FOR MINIMUM ONE HOUR. CHARGE FOR 24 HOURS BEFORE CONDUCTING A LONG-TERM DISCHARGE TEST.

FOLLOW GUIDELINES FROM THE EM DRIVER/BATTERY MANUFACTURER INSTRUCTIONS FOR THE REQUIRED PERIODIC TESTING AND MAINTENANCE GUIDELINES.

EUREKA

INSTALLATION

Project Name: KCC College of Cosmetology
Date: March 11, 2026

Type: A2 - Eureka Scout

Interface Engineering
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TEL 503.382.2266
www.interfaceengineering.com

3981E BOÎTE D'URGENCE À DISTANCE - **DRIVER EM IOTA**

DIRECTIVES DE SÉCURITÉ:

> Suivre les consignes de sécurité et les directives d'installation du fabricant de la batterie d'urgence.
> Installer par du personnel qualifié conformément au code électrique national et local.
> Fermer l'alimentation avant l'installation ou l'entretien.

EMPLACEMENT :

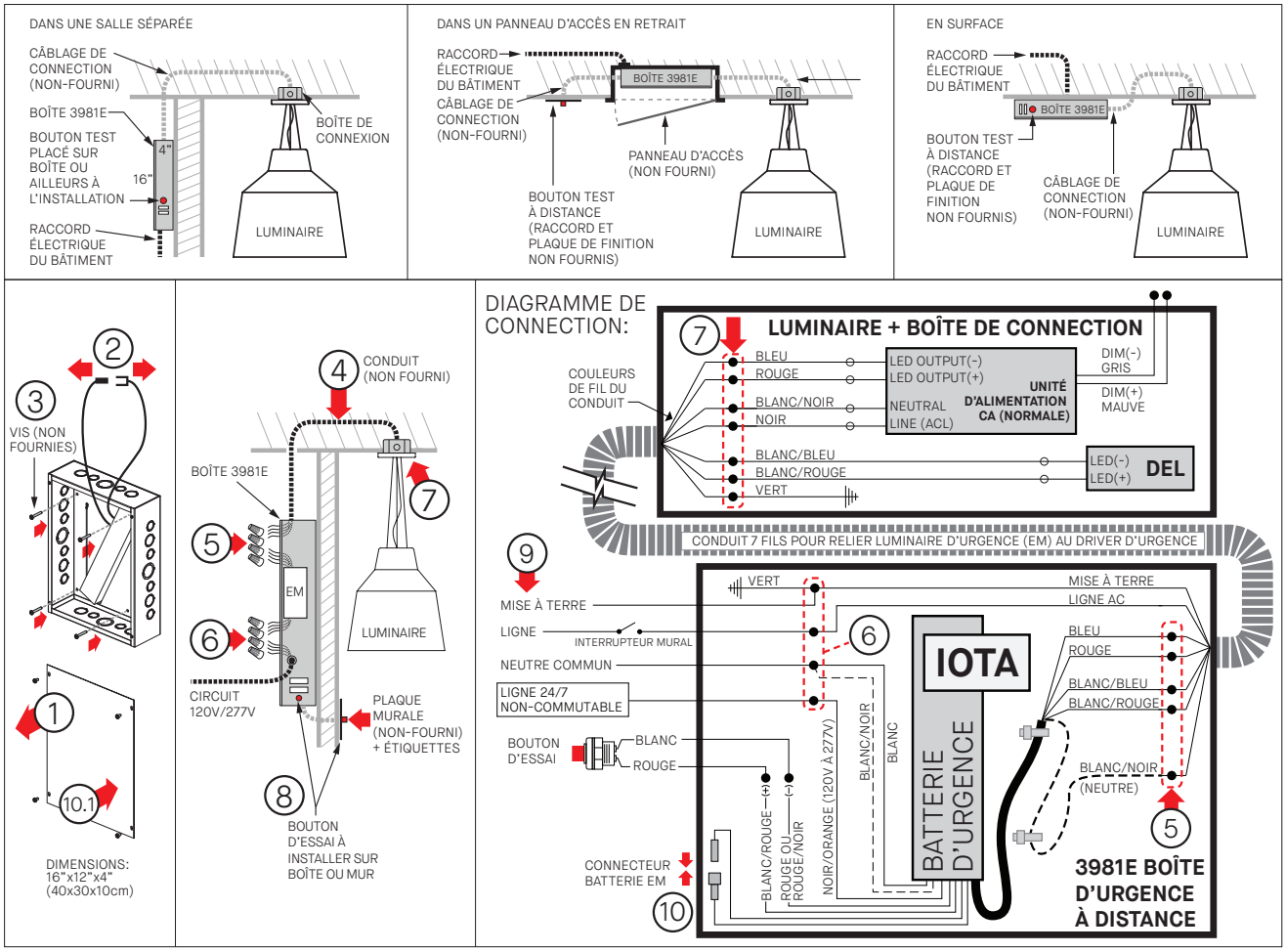
> Cette boîte 3981E se connecte à un luminaire commandé avec l'option EMB (qui a du filage spéficique).
> Consulter le tableau pour la distance maximale de la batterie d'urgence aux DELs du luminaire.
> Déterminer l'emplacement souhaité pour la boîte EMB et le bouton de test d'urgence.

Charte de distance d'installation EM

Distance maximale entre Batterie d'urgence et DELs du luminaire (Pi)

DISTANCE MAX D'INSTALLATION (Pi)		GAUGE DE FILS DU CONDUIT (AWG)						
		10	12	14	16	18	20	22
COURANT ALIMENTATION DU LUMINAIRE* (Amp) *Contacter Eureka	200mA	1043'	651'	413'	259'	163'	103'	65'
	350mA	596'	372'	236'	148'	93'	59'	37'
	500mA	417'	261'	165'	104'	65'	41'	26'
	700mA	298'	186'	118'	74'	47'	29'	18'
	1000mA	209'	130'	83'	52'	33'	21'	13'
	1400mA	149'	93'	59'	37'	23'	15'	9'
	2000mA	104'	65'	41'	26'	16'	10'	6'
	3000mA	70'	43'	28'	17'	11'	7'	4'

EXEMPLES D'EMPLACEMENT:



INSTALLATION

1 - DÉVISSER LE COUVERCLE.

2 -DÉCONNECTER LE CONNECTEUR BLANC DE BATTERIE EM (UNIT CONNECTOR).

3 -FIXER LA BOÎTE SUR LE MUR/PLAFOND AVEC VIS (NON FOURNIES)

4 -PASSER DU CONDUIT DU EMB VERS LA BOÎTE DE CONNEXION ÉLÉCTRIQUE DE LUMINAIRE. LE CONDUIT DOIT AVOIR 7 FILS AVEC JAUGE DE FIL SELON CHARTE DE DISTANCE.

5 -CONNECTER LES FILS DE CONDUIT À LA BATTERIE EM SELON LE SCHÉMA DE CÂBLAGE.

6 -CONNECTER LA BATTERIE AU CIRCUIT DE DÉRIVATION AC (FILS: MISE A LA TERRE, NEUTRE, LIGNE & LIGNE SANS INTERRUPTEUR 24H/7* (*DOIT ETRE LE MEME CIRCUIT QUE LE CONTROLE DU LUMINAIRE).

7 -INSTALLER LUMINAIRE SPÉCIFIQUE EM, CONNECTER LES FILS AU CONDUIT AVEC MÊMES COULEURS CORRESPONDANTES DE LA BATTERIE EM AUX FILS DE CONDUIT.

8 -INSTALLEZ LE BOUTON D'ESSAI DE BATTERIE EM DANS L'ENDROIT SOUHAITÉ (PLAQUE MURALE PAR AUTRE). COLLER ÉTIQUETTES "PUSH TO TEST" & CHARGING INDICATOR LIGHT".

9 -ALIMENTER LE CIRCUIT AC.

10 -JOINDRE CONNECTEUR BLANC DE BATTERIE EM. 10.1 -INSTALLER COUVERCLE DE BOITE.

11 -SI LE EMB EST LOIN DU LUMINAIRE, IDENTIFIER À QUEL LUMINAIRE IL EST CONNECTÉ.

A CE STADE, L 'ALIMENTATION DEVRAIT ETRE CONNECTÉE À L'UNITÉ D'ALIMENTATION AC ET LA BATTERIE D' URGENCE ET LA LUMIERE DE TEST/CHARGE S'ILLUMINE, INDIQUANT QUE LA BATTERIE SE CHARGE.

ESSAIS & ENTRETIEN DE LA BATTERIE:

FAITES UN TEST DE DÉCHARGE À COURT TERME APRÈS AVOIR CHARGÉ LA BATTERIE D'URGENCE AU MINIMUM UNE HEURE. CHARGEZ 24 HEURES AVANT D'EFFECTUER UN TEST DE DÉCHARGE À LONG TERME.

SUIVRE LES DIRECTIVES DU FABRICANT DE BATTERIE / CONDUCTEUR EM (SITE WEB) POUR LES DIRECTIVES PÉRIODIQUES REQUISES EN MATIÈRE DE TEST ET D'ENTRETIEN.

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TAPER

BROWNLEE

Grey Linen (GYL) diffuser

Grey Linen (GYL) diffuser

2662 LED

The 2662 LED features a one-piece tapered drum which is offered in three different sizes and two acrylic-backed fabric options. The base (bottom) of the drum is constructed of high transmission matte-white acrylic, providing optimal light distribution and performance. Two suspension options to choose from with extension kits available for high ceilings and staggered drops. The top of the drum is fully covered by the LED assembly to minimize debris entry. Given the size range, this unit is ideal for commercial lobbies and common areas, open-office layouts, conference rooms, break rooms, and more.

FINISHES

BL BZ GM MB MG NT WH

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TAPER

PROJECT:	
MODEL #:	
FIXTURE TYPE:	

STANDARD SPECIFICATIONS

DIFFUSER
The drum features a high quality UV stabilized white acrylic outer shell, with your choice of fabric bonded to its exterior sidewall. The base (bottom) of the drum is constructed with high transmission white acrylic. The fixture can be cleaned with a damp cloth and mild detergent, if needed.

HOUSING
Formed, cold rolled steel design, finished in a high reflectance powder coat white. The housing covers the entire top surface of the drum. No need for top cover.

LED PERFORMANCE - 3500K STANDARD
120-277V - 3500K, 82 CRI - L80 rating - 60,000 hrs - L70 rating (projected) - 100,000 hrs
Amperage rated @ 110V input
Operating ambient temperature: -20°C / -4°F - 40°C / 104°F

Delivered 3500K CCT noted. Consult Brownlee.com for performance of all CCTs.
B12 - 12W nominal, .10 A input - 1509 lm. Dimmable (0-10V).
C17 - 16W nominal, .15 A input - 2297 lm. Dimmable (0-10V).
C24 - 23W nominal, .20 A input - 3152 lm. Dimmable (0-10V).
C37 - 35W nominal, .30 A input - 4414 lm. Dimmable (0-10V).
C49 - 45W nominal, .40 A input - 5948 lm. Dimmable (0-10V).

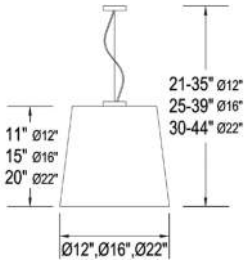
SUSPENSION SYSTEM
The 2662 Series is available in multiple colors and two suspension methods:

CC1 – Cord & Single Cable: Both the power cord and aircraft cable can be trimmed in the field. See optional ordering code CE1 and CE2 for extended 10' and 20' drops.

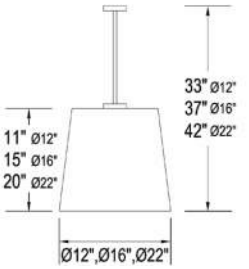
SSM – Single Stem Mount: Traditional pendant style. Steel stem in your choice of finish. The standard overall height (OAH) can be extended with additional stem sections in 1' and 2' intervals - see accessories section.

MOUNTING
Directly to j-box (by others). Mounting hardware included.

WARRANTY
5 year limited warranty on this LED product. Consult factory for details.



CC1 suspension



SSM suspension


2662-22-NT-WHL-CC1

DAMP | SUPPORTS T24 COMPLIANCE | RoHS COMPLIANT ELECTRONICS | BAA+BABAA OPTIONS

ORDERING INFORMATION

2662 - _____ - _____ - _____ - _____ - _____ - _____ - _____ - _____

Model | 2. | 3. | 4. | 5. | 6. | 7. | 8. (if required)

2. SIZE
12	12" dia.
16	16" dia.
22	22" dia.

3. FINISH
CC1

BL	Black
NT	Nickel Tone
WH	White

SSM

BL	Black
BZ	Bronze
GM	Gun Metal
MB	Metallic Bronze
MG	Metallic Gold
NT	Nickel Tone
WH	White

4. WATTAGE
12 SIZE

B12	12W B Series LED

16 SIZE

B12	12W B Series LED
C17	16W C Series LED
C24	23W C Series LED

22 SIZE

C37	35W C Series LED
C49	45W C Series LED

5. DIFFUSER
GYL	Grey Linen
WHL	White Linen

6. SUSPENSION
CC1	Cord & Single Cable
SSM	Single Stem Mount

7. COLOR TEMPERATURE
35K	3500K standard color temperature
27K	2700K color temperature
30K	3000K color temperature
40K	4000K color temperature

8. AVAILABLE OPTIONS
90R[0]	90 CRI (3000K only)
BAB[1]	Build America, Buy America Compliant (BABAA)
BAC[1]	Buy American Compliant (BAA)
CE1	3' - 10' Cord/Cable Extension (CC1 only)
CE2	10' - 20' Cord/Cable Extension (CC1 only)
DTR[4]	Triac (Line Voltage) Dimming (120V)
FCL[7]	French Canadian Labels
SVL	Swivel Canopy (SSM only)
T24[9]	Title 24 JA8 Compliant (B12, C24 & C49 in 3000K only)

ACCESSORIES (field installed - order separately)

390002xx	SSM Extension Kit: includes (1) 1' stem and (2) 2' stems. 5' combined max. Specify finish (xx)

Notes: (0) 90R - cannot be combined with ES. **1) BAC** - cannot be combined with FCL. **(2) BBI/BBS/BBC**- cannot be combined with ECW or EXT.
(3) BLD - includes integral OCC sensor (do not combine with OCC option). Cannot be combined with DTR. **(4) DTR** - cannot be combined with BLD or T24.
(5) ECW - cannot be combined with BBI,BBC, or DTR. **(6) ES** - cannot be combined with 90R or T24. **(7) FCL** - cannot be combined with BAC.
(8) OCC - integral ON/OFF occupancy sensor. **(9) T24** - includes JA8 labeling and 90 CRI LEDs (do not combine with 90R option). Cannot be combined with DTR or ES.
(10) BBS - cannot be combined with BLD, ECW, EXT, or OCC. **(11) PCH/PC4** - cannot be combined with BLD or OCC.
Add'l Notes: *BBI/BBS/BBC - standard BBI (and BBS) option has a minimum operating temperature of 10C/50F. BBC option has a minimum operating temperature of -20C/-4F. ****BLD** - integral OCC sensor with onboard control. 1: Motion is detected, illuminate to 100%. 2: Motion no longer detected, dim to 50%, 30%, 20% or 10%. 3: Remain in continuous dimmed state or turn off after set period.

Specifications and dimensions subject to change without notice.
Consult your Brownlee Lighting representative for availability and ordering information.

BROWNLEE LIGHTING
www.brownlee.com

REVISED
2024.12.20

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DIRECT
STATIC WHITE, BIOS

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IC RATED Declare. 5 YEAR WARRANTY

SENSORS
For latest information on sensors, click here.

Our elegant, flexible Via family is composed of linear, pendant, surface, recessed, and wall mounted luminaires. Each lighting fixture can be installed as a discrete luminaire or in continuous runs or patterns. Via 3 Recessed is offered with Lambertian, asymmetric, widespread, wall wash, low-glare, or grazing reflector optics.

Module Option

DIRECT

HLO ARO2 WRO2 WDO LGO GRO MPO

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Project: _____

Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	OPTIC	LENS POSITION	LIGHT SOURCE [2]
VIA3R	**D**			
VIA3R - Via 3" Recessed	**D** - Direct	**HLO** - High-Efficiency Lambertian Optic **ARO2** - Asymmetric Refractive Optic **WRO2** - Wall Wash Refractive Optic **WDO** - Widespread Direct Optic **LGO** - Low-Glare Optic **GRO** - Grazing Reflector Optic **MPO** - Micro-Prismatic Optic	**FH** [1] - Flush **RG** [1] - Regressed **0.5D** [1] - 0.5" drop **1.0D** [1] - 1.0" drop [1] • For HLO, specify FH, RG, 0.5D, or 1.0D. • For ARO2, WRO2, WDO, LGO, GRO, and MPO, specify FH.	**SW** - Static white **BIOSST** [3,4] - BIOS Biological Static **BIOSDY** [3,4] - BIOS Biological Dynamic **BIOSTU** [3,4] - BIOS Biological Tunable [2] Chromawerx SOLA, DUO, and QUADRO also available. Consult other spec sheets. [3] Only available with low and medium lumen packages. [4] See page 7 for details.

CRI	LUMEN PACKAGE	COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE
80CRI - 80+ CRI **90CRI** [5] - 90+ CRI [5] Not available with BIOS.	**350LMF** [6] - Hypo output 350 lm/ft **500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** - High output 1000 lm/ft **1200LMF** [7] - Hyper output 1200 lm/ft [6] Minimum 3' fixture. [7] Fixture will be very bright. Use in suitable applications.	**27K** [8] - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** [8] - 5000K [8] Not available with BIOS.	**#FT#IN** - Specify nominal length (#) in 1' and/or 1" increments **Standard nominal lengths:** Single units: 2' to 12' (up to 8' for MPO) Continuous runs: lengths over 12' (8' for MPO)	**120V** - 120V **277V** - 277V **UNV** - 120V-277V **347V** [9] - 347V [9] Available with D1 driver only.

DRIVER [10]	ELECTRICAL	ELECTRICAL SECTIONS (optional) [16,17]	MOUNTING [22]
D1 - 1% 0-10V **DA** [11] - DALI **LDE1** [11] - Lutron Hi-lume 1% Eco **ELD1** - eldoLED 1% ECOdrive 0-10V **ELD0** - eldoLED 0.1% SOLOdrive 0-10V **ELV** [12] - ELV 120V **TRI** [12] - TRIAC 120V [10] PoE (Power-over-Ethernet) compatible. Consult factory for details. [11] On-site commissioning is required. [12] Available with 120V only.	**1C** - 1 circuit **#MC** [13] - Multi circuit **EC** - Emergency-powered fixture **NL** - Night light fixture **DL** - Daylight fixture **GTD** [14,15] - Generator transfer device fixture [13] Specify total number of circuits (#), including any required for electrical section or module options. Provide drawing or layout specifications. Minimum 4' section per circuit. [14] Minimum 4' fixture. [15] Not available with 347V.	**#EC##** [18] - Emergency-powered section **#NL##** [18] - Night light section **#DL##** [18] - Daylight section **#GTD##** [18,19,20] - Generator transfer device section **#EMB** [20,21] - Emergency battery **NA** - None [16] Specify with multi circuit (#MC) electrical option only. [17] Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. [18] Specify quantity (#), and section length in inches (##). [19] Minimum 4' section. [20] Not available with 347V. [21] Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section.	**TG9** - Tegular 9/16" **TG15** - Tegular 15/16" **TB9** - T-bar 9/16" **TB15** - T-bar 15/16" **ST** - Screw slot T-bar **DTR** - Trim **DTL** - Trimless **DMF** - Drywall mud flange **MFM** [23] - Multiple flange mounting [22] Transition mounting options also available (e.g. Recessed to Pendant/Surface), consult factory for details. [23] See page 4 for details.

FINISH	CONTROL [24,25]		OPTIONS [31]	MODULE (optional) [32,33]
W - Matte white **B** - Matte black **CF#** - Custom finish, specify RAL#	STANDALONE CONTROLS [26,27] Specify the quantity (#) of sensors per fixture. **#OMS** [28] - Onboard Occupancy **#OMS##** [29] - Onboard Occupancy with bi-level dimming **#ODS** - Onboard Daylight **#OCS** - Onboard Occupancy & Daylight	CONNECTED CONTROLS [30] **LU** - Lutron **AWNR** - Lutron Athena Wireless Node RF Only **AWNS** - Lutron Athena Wireless Node Sensor **ENC** - Encelium **WL** - Cooper Wavelinx **AN** - Acuity nLight **CA** - Casambi **LG** - Legrand	**FU120** - Fuse 120V **FU277** - Fuse 277V **FWC** - Flexible whip cable (6' std) **CP** - Chicago Plenum **NA** - None [31] Separate codes with a "+" if more than one is specified.	**#AE2R( )** - Aera 2" round downlight **NA** - None [32] See page 3 for ordering details. [33] Not available with ELV/TRI driver options.
	NA - None			
	[24] Standalone and connected control options cannot be combined. [25] Available with flush lens option only. [26] Available with D1 driver and 1 circuit options only. [27] Minimum 4' per zone. Provide control zone length.	[28] Fixture turns off when no occupancy. [29] Fixture dims to specified light level % (##). [30] Consult factory for connected controls.		

TECHZONE™ & USG Compatible with 4" ceiling

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DIRECT
STATIC WHITE, BIOS

Module Code

For a module, specify the options in the parentheses.
The module is trimless and the light source is static white.
CRI of module matches specification of main fixture.

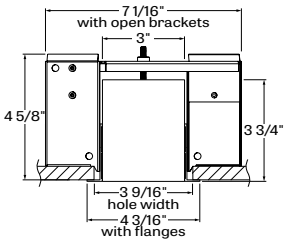
Example: 1AE2R(7W-10DEG-27K-SDL-FTMW)

MODULE (optional)

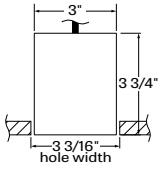
MODULE [1,2,3]	WATTAGE	BEAM ANGLE	COLOR TEMP.	LENS AT BAFFLE	BAFFLE FINISH
#AE2R( ) - Aera 2" round downlight [1] Minimum 4' fixture and minimum 2' section per module. Consult factory for other configurations. [2] Specify quantity (#). [3] 6" blank per module. Blank finish will match fixture finish.	**7W** - 7 W output, up to 714 lm	**10DEG** - 10° very narrow spot **15DEG** - 15° Narrow spot **25DEG** - 25° Spot **35DEG** - 35° Narrow flood **50DEG** - 50° Wide flood	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K	**SDL** - Soft diffused lens, solite **FDL** - Frosted diffused lens **CL** - Clear lens	**FTMW** - Matte white **FTMB** - Matte black **FSPC** - Satin silver **FSSPC** - Matte silver **FCHP** - Champagne **FDBZ** - Dark bronze **CF#** - Custom finish, specify RAL#

Dimensions

TRIM

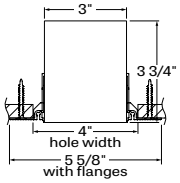


TRIMLESS

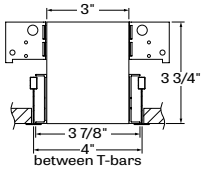


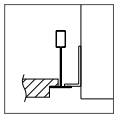
* For regressed lens, the hole width is 3 5/16".

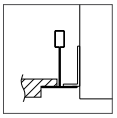
DRYWALL MUD FLANGE

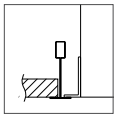


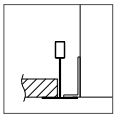
GRID

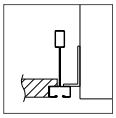



TG9
Tegular 9/16"


TG15
Tegular 15/16"

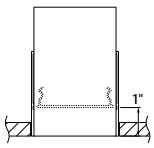

TB9
T-bar 9/16"


TB15
T-bar 15/16"

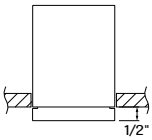

ST
Screw slot T-bar

LENS POSITIONS

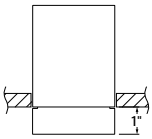
Regressed Lens [1]



0.5" Drop Lens [1]



1.0" Drop Lens [1]



[1] Regressed lens and drop lens positions available with HLO only.

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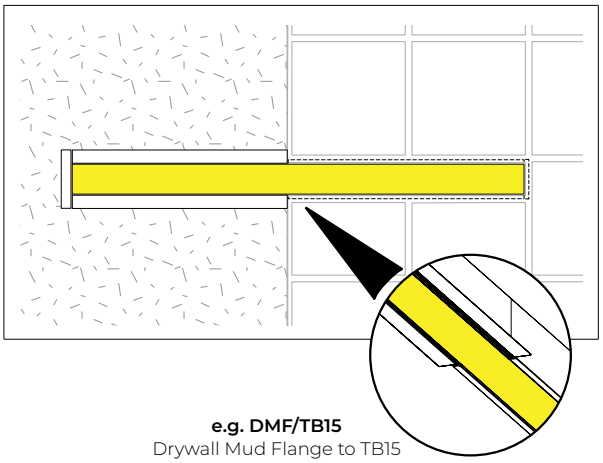
Multiple Flange Mounting Details

Multiple flange mounting can be specified when a fixture run needs to have a multiple flange recessed mounting detail. A drawing is required to clearly illustrate the application.

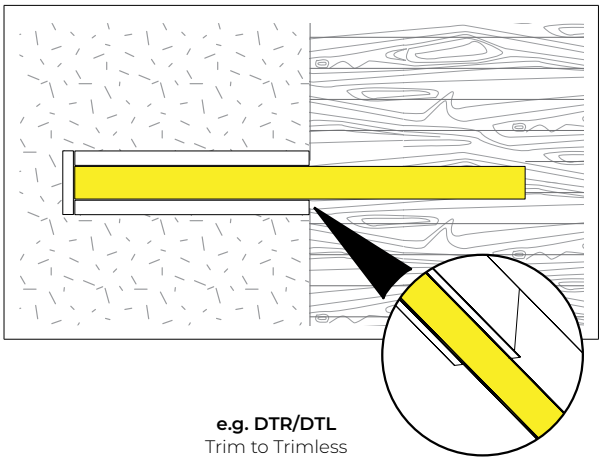
CEILING CONDITION EXAMPLES (consult factory for project specific ceiling conditions)

DRYWALL/GRID



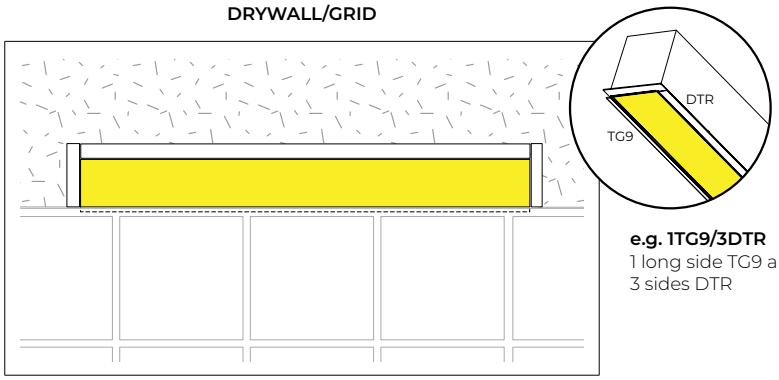
e.g. DMF/TB15
Drywall Mud Flange to TB15

DRYWALL/WOOD



e.g. DTR/DTL
Trim to Trimless

DRYWALL/GRID



e.g. 1TG9/3DTR
1 long side TG9 and other
3 sides DTR

All drawings are for illustrative purposes only.

TRANSITION MOUNTING OPTIONS (consult factory for details)

Mounting condition alters along the run of the fixture.


Recessed to Pendant


Surface to Pendant


Surface to Recessed in corner


Surface to Pendant in corner

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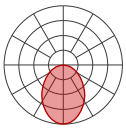
Photometrics

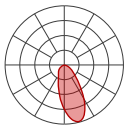
Values calculated based on a 4' fixture at 3500K for all optics.

HLO (Flush lens)



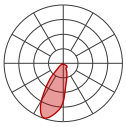
LM/FT	W/FT	LM/W
350	2.8	125
500	4.1	123
750	6.3	119
1000	8.6	116
1200	10.6	113

ARO2



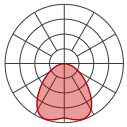
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	113
750	7.0	107
1000	9.7	103
1200	12.1	99

WRO2



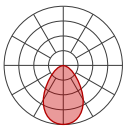
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	112
750	7.0	107
1000	9.8	102
1200	12.1	99

WDO



LM/FT	W/FT	LM/W
350	3.0	118
500	4.3	116
750	6.7	113
1000	9.2	109
1200	11.3	106

LGO

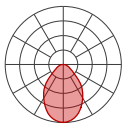


LM/FT	W/FT	LM/W
350	3.2	108
500	4.7	106
750	7.3	102
1000	10.2	98
1200	12.5	96

GRO

LM/FT	W/FT	LM/W
350	3.3	108
500	4.8	104
750	7.6	99
1000	10.6	94
1200	13.2	91

MPO



LM/FT	W/FT	LM/W
350	3.1	112
500	4.5	112
750	6.8	111
1000	9.5	105
1200	12.0	100

MULTIPLIER TABLES

Use these tables to get results for different color temperatures and drop lenses for all photometric tables.

Multiplier - CCT/CRI

CCT	WATTS 80+ CRI / 90+ CRI	LPW 80+ CRI / 90+ CRI
2700K	1.05	0.95
3000K	1.02	0.98
3500K	1.00	1.00
4000K	1.00	1.00
5000K	0.96	1.04

Multiplier - Drop lens

DIRECT LENS	WATTS	LPW
Flush lens	1.00	1.00
Drop lens 0.5"	0.98	1.02
Drop lens 1.0"	0.96	1.04

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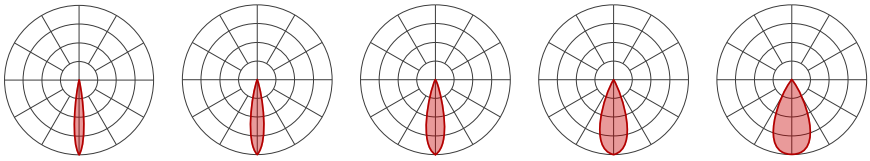
AERA 2" MODULE

Values calculated based on 3500K and SDL lens option.



10° 15° 25° 35° 50°

Delivered lumens

CRI	80+ CRI					90+ CRI				
BEAM	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°
7 W	589	654	714	705	676	550	611	667	659	632

Efficacy

CRI	80+ CRI					90+ CRI				
BEAM	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°
7 W	84	93	102	101	97	79	87	95	94	90

Please follow the multiplier tables to ensure correct lumen value. CCT and lensing will change the lumen value.

CCT	
2700K	0.94
3000K	0.98
3500K	1
4000K	1.05
5000K	1.05

LENS AT BAFFLE	
SDL - Soft diffused lens, Solite	1
FDL - Frosted lens	0.8
CL - Clear lens	1.1

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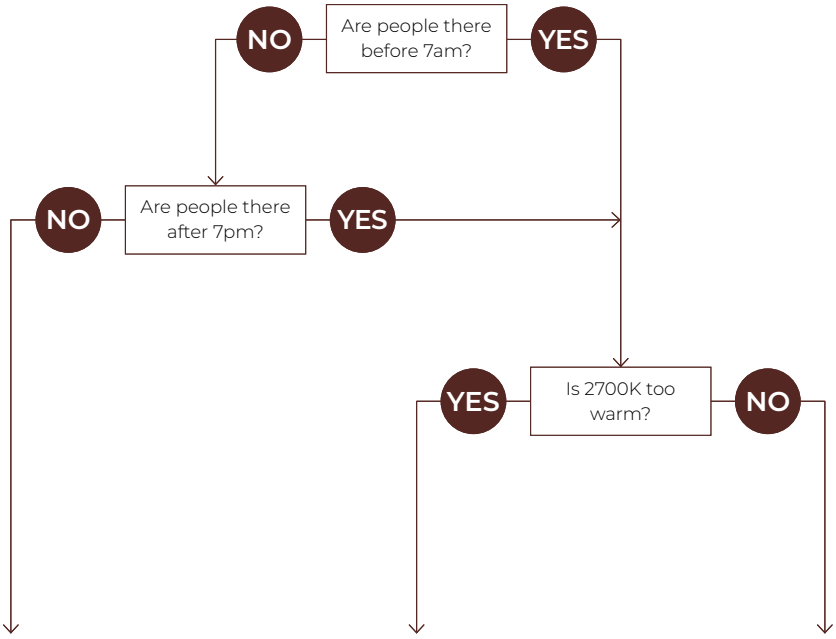
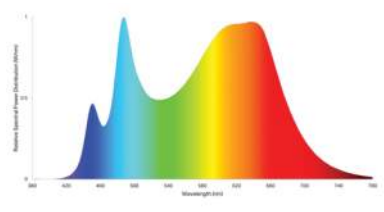
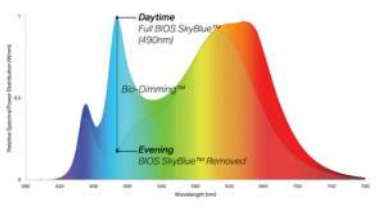
BIOS

Three BIOS Circadian LED solutions are offered – Biological Static, Biological Dynamic, and Biological Tunable. Use the decision tree below to identify when and where to use BIOS Wellness LED Lighting Solutions.



Biological Static BIOSST	Biological Dynamic BIOSDY	Biological Tunable BIOSTU
No CCT change when dimmed	500K shift when dimmed	Dims to 2700K
Daytime solution	Daytime + evening solution	Daytime + evening solution
Spaces in operation during daytime hours, between 7am and 7pm	Spaces in operation overnight, after 7pm and before 7am, and when CCT color shift in the evening is not preferred	Suitable for spaces in operation overnight, after 7pm and before 7am, and where people do not sleep (CCT color shift in the evening is preferred)
E.g. offices, medical/dental offices	E.g. hospitals	E.g. offices, shiftwork
		

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Technical Specifications

OPTICS

High-Efficiency Lambertian Optic (HLO)
The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. Available as a flush lens or as a drop lens, the HLO has a spacing criterion of 1.10.

Asymmetric Refractive Optic (ARO2)
The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

Wall Wash Refractive Optic (WRO2)
The Wall Wash Refractive Optic (WRO2) delivers smooth vertical illumination with a gentle gradient and soft visual cut-off. Its exacting configuration creates a strong downward light component without shadows or hot spots and provides light distribution with peak intensity at 21° above nadir. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

Widespread Direct Optic (WDO)
The Widespread Direct Optic (WDO) is designed to distribute light far and wide. As such, it has an excellent luminous efficacy, a light span that is 40% farther than that of our traditional HLO, and it maximizes spacing distance while still creating a sense of uniformity. The lens snaps into place and utilizes nano prismatic optics to mask the diodes that are actually emitting the light.

Low-Glare Optic (LGO)
The Low-Glare Optic (LGO) is designed to cut off high-angled light and control glare. The carefully crafted lens refracts light downward through its center from which it then disperses into a wide conical distribution that negates any illumination at about 40°. The LGO provides the visual comfort of a louver in a smooth acrylic lens.

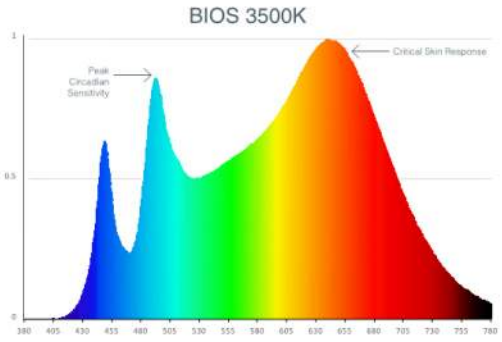
Grazing Reflector Optic (GRO)
The Grazing Reflector Optic (GRO) is oriented to project light with maximum luminous intensity at 5° from nadir. This provides a tight beam to highlight and accentuate a wall with subtle vertical illumination.

Micro-Prismatic Optic (MPO)
The Micro-Prismatic Optic (MPO) delivers high-efficiency, low-glare illumination with UGR <17. Its precision-engineered lens, composed of thousands of tiny prisms, diffuses light to reduce glare, producing a ceiling plane that reads smooth from a distance while revealing subtle texture up close. The result is balanced, efficient illumination with a refined architectural presence.

LIGHT SOURCE

Static white
Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K, 4000K, and 5000K with a minimum 80+ CRI and an option for 90+ CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

BIOS
BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being.
The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



Three BIOS solutions are offered: BIOS Biological Static (BIOSST), BIOS Biological Dynamic (BIOSDY), and BIOS Biological Tunable (BIOSTU). See page 7 for details.

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LUMINAIRE LENGTH

Via 3 is available in standard lengths of 2' to 12' (up to 8' for MPO). Continuous runs are available for run lengths over 12' (8' for MPO). Exact run length must be noted in the product code. The minimum length is 2', and can be ordered in 1' and/or 1" increments. All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277 VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% Eco, eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, ELV, TRIAC, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant. ELV and TRIAC dimming performance (including minimum dimming percentage) subject to dimmer selection.

PoE
Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

Electrical sections
Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.
Code: 2MC-2EC96

Example 2: A 24' Direct fixture with one 4' generator transfer device section.
Code: 1MC-1GTD48

Battery
Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required.
Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

MOUNTING

Recessed fixtures can be mounted into exposed or concealed T-bar or tegular ceiling, as well as in ceilings with trim, trimless, or mud flange options. Via 3 is compatible with 4" Armstrong Techzone™ & USG ceilings.

FINISH

Interior: 95%, reflective matte powder coated white paint
Exterior: Matte white or matte black powder coating. Custom finishes are also available.

CONTROLS

Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.
For latest information on sensors, click here.

Standalone controls
An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, sensor location, blank size, and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details.
Three types are available:

OMS: An integral Passive InfraRed (PIR) sensor turns luminaires on and off automatically with field-adjustable time out period. No wall control is used. Coverage pattern for large motion has a 12' diameter with the sensor mounted 8' above the floor; for small motion, the pattern has an 8' diameter. Typically, one sensor is required for every 10' of a continuous luminaire run.

ODS: An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

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OCS: Both an occupancy and a daylight sensor are installed in the luminaire.

Connected controls
With connected controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand, and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

Lumenwerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by Lumenwerx, depending on the control system manufacturer.

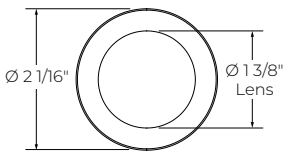
Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

To indicate a Lumenwerx luminaire with connected controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact factory to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

AERA MODULE

Compact COB (Chip-On-Board) LED module, available in 2700K, 3000K, 3500K, 4000K, and 5000K with a choice of 80+ CRI or 90+ CRI, with elevated R9 value for 90+ CRI and above. Color consistency is maintained to within 2 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.



Aera 2"

CONSTRUCTION

Housing: Extruded aluminum, up to 90% recycled content
Interior brackets: Die-formed cold rolled sheet steel
Joining system: Die-cast zinc
Reflectors: Die-formed cold rolled steel, 95% reflective matte white painted
Lens: Acrylic
Drop lens: Extruded with glued end caps
Recessed flanges: Extruded aluminum, up to 90% recycled content
Mud flange: Extruded aluminum, up to 90% recycled content
Slip-through bracket: Die-formed galvanized sheet
End plate: Die-formed cold rolled sheet steel

WEIGHT

4': 11.12 lbs - 5.05 kg
8': 22.25 lbs - 10.1 kg
12': 33.48 lbs - 15.2 kg

CERTIFICATIONS

ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.
Chicago Plenum: City of Chicago Approved (CCEA) when specified with CP option.
IC rated: Suitable for direct contact with insulation
Declare: LBC Red List Approved

WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

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SENSORS
For latest information on sensors, click here.

Our elegant, flexible Via family is composed of linear, pendant, surface, recessed, and wall mounted luminaires. Each lighting fixture can be installed as a discrete luminaire or in continuous runs or patterns. Via 3 Recessed is offered with Lambertian, asymmetric, widespread, wall wash, low-glare, or grazing reflector optics.

Module Option

DIRECT

HLO ARO2 WRO2 WDO LGO GRO MPO

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Project: _____

Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	OPTIC	LENS POSITION	LIGHT SOURCE [2]
VIA3R	**D**			
VIA3R - Via 3" Recessed	**D** - Direct	**HLO** - High-Efficiency Lambertian Optic **ARO2** - Asymmetric Refractive Optic **WRO2** - Wall Wash Refractive Optic **WDO** - Widespread Direct Optic **LGO** - Low-Glare Optic **GRO** - Grazing Reflector Optic **MPO** - Micro-Prismatic Optic	**FH** [1] - Flush **RG** [1] - Regressed **0.5D** [1] - 0.5" drop **1.0D** [1] - 1.0" drop [1] • For HLO, specify FH, RG, 0.5D, or 1.0D. • For ARO2, WRO2, WDO, LGO, GRO, and MPO, specify FH.	**SW** - Static white **BIOSST** [3,4] - BIOS Biological Static **BIOSDY** [3,4] - BIOS Biological Dynamic **BIOSTU** [3,4] - BIOS Biological Tunable [2] Chromawerx SOLA, DUO, and QUADRO also available. Consult other spec sheets. [3] Only available with low and medium lumen packages. [4] See page 7 for details.

CRI	LUMEN PACKAGE	COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE
80CRI - 80+ CRI **90CRI** [5] - 90+ CRI [5] Not available with BIOS.	**350LMF** [6] - Hypo output 350 lm/ft **500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** - High output 1000 lm/ft **1200LMF** [7] - Hyper output 1200 lm/ft [6] Minimum 3' fixture. [7] Fixture will be very bright. Use in suitable applications.	**27K** [8] - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** [8] - 5000K [8] Not available with BIOS.	**#FT#IN** - Specify nominal length (#) in 1' and/or 1" increments **Standard nominal lengths:** Single units: 2' to 12' (up to 8' for MPO) Continuous runs: lengths over 12' (8' for MPO)	**120V** - 120V **277V** - 277V **UNV** - 120V-277V **347V** [9] - 347V [9] Available with D1 driver only.

DRIVER [10]	ELECTRICAL	ELECTRICAL SECTIONS (optional) [16,17]	MOUNTING [22]
D1 - 1% 0-10V **DA** [11] - DALI **LDE1** [11] - Lutron Hi-lume 1% Eco **ELD1** - eldoLED 1% ECOdrive 0-10V **ELD0** - eldoLED 0.1% SOLOdrive 0-10V **ELV** [12] - ELV 120V **TRI** [12] - TRIAC 120V [10] PoE (Power-over-Ethernet) compatible. Consult factory for details. [11] On-site commissioning is required. [12] Available with 120V only.	**1C** - 1 circuit **#MC** [13] - Multi circuit **EC** - Emergency-powered fixture **NL** - Night light fixture **DL** - Daylight fixture **GTD** [14,15] - Generator transfer device fixture [13] Specify total number of circuits (#), including any required for electrical section or module options. Provide drawing or layout specifications. Minimum 4' section per circuit. [14] Minimum 4' fixture. [15] Not available with 347V.	**#EC##** [18] - Emergency-powered section **#NL##** [18] - Night light section **#DL##** [18] - Daylight section **#GTD##** [18,19,20] - Generator transfer device section **#EMB** [20,21] - Emergency battery **NA** - None [16] Specify with multi circuit (#MC) electrical option only. [17] Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. [18] Specify quantity (#), and section length in inches (##). [19] Minimum 4' section. [20] Not available with 347V. [21] Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section.	**TG9** - Tegular 9/16" **TG15** - Tegular 15/16" **TB9** - T-bar 9/16" **TB15** - T-bar 15/16" **ST** - Screw slot T-bar **DTR** - Trim **DTL** - Trimless **DMF** - Drywall mud flange **MFM** [23] - Multiple flange mounting [22] Transition mounting options also available (e.g. Recessed to Pendant/Surface), consult factory for details. [23] See page 4 for details.

FINISH	CONTROL [24,25]		OPTIONS [31]	MODULE (optional) [32,33]
W - Matte white **B** - Matte black **CF#** - Custom finish, specify RAL#	STANDALONE CONTROLS [26,27] Specify the quantity (#) of sensors per fixture. **#OMS** [28] - Onboard Occupancy **#OMS##** [29] - Onboard Occupancy with bi-level dimming **#ODS** - Onboard Daylight **#OCS** - Onboard Occupancy & Daylight	CONNECTED CONTROLS [30] **LU** - Lutron **AWNR** - Lutron Athena Wireless Node RF Only **AWNS** - Lutron Athena Wireless Node Sensor **ENC** - Encelium **WL** - Cooper Wavelinx **AN** - Acuity nLight **CA** - Casambi **LG** - Legrand	**FU120** - Fuse 120V **FU277** - Fuse 277V **FWC** - Flexible whip cable (6' std) **CP** - Chicago Plenum **NA** - None [31] Separate codes with a "+" if more than one is specified.	**#AE2R( )** - Aera 2" round downlight **NA** - None [32] See page 3 for ordering details. [33] Not available with ELV/TRI driver options.
	NA - None			
	[24] Standalone and connected control options cannot be combined. [25] Available with flush lens option only. [26] Available with D1 driver and 1 circuit options only. [27] Minimum 4' per zone. Provide control zone length.	[28] Fixture turns off when no occupancy. [29] Fixture dims to specified light level % (##). [30] Consult factory for connected controls.		

TECHZONE™ & USG Compatible with 4" ceiling

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Module Code

For a module, specify the options in the parentheses.
The module is trimless and the light source is static white.
CRI of module matches specification of main fixture.

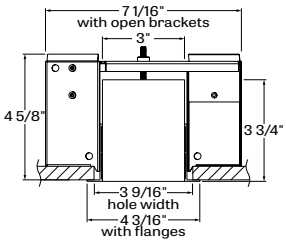
Example: 1AE2R(7W-10DEG-27K-SDL-FTMW)

MODULE (optional)

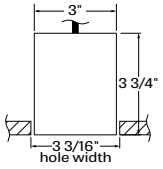
MODULE [1,2,3]	WATTAGE	BEAM ANGLE	COLOR TEMP.	LENS AT BAFFLE	BAFFLE FINISH
#AE2R( ) - Aera 2" round downlight [1] Minimum 4' fixture and minimum 2' section per module. Consult factory for other configurations. [2] Specify quantity (#). [3] 6" blank per module. Blank finish will match fixture finish.	**7W** - 7 W output, up to 714 lm	**10DEG** - 10° very narrow spot **15DEG** - 15° Narrow spot **25DEG** - 25° Spot **35DEG** - 35° Narrow flood **50DEG** - 50° Wide flood	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K	**SDL** - Soft diffused lens, solite **FDL** - Frosted diffused lens **CL** - Clear lens	**FTMW** - Matte white **FTMB** - Matte black **FSPC** - Satin silver **FSSPC** - Matte silver **FCHP** - Champagne **FDBZ** - Dark bronze **CF#** - Custom finish, specify RAL#

Dimensions

TRIM

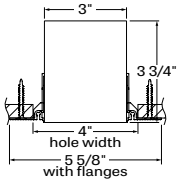


TRIMLESS

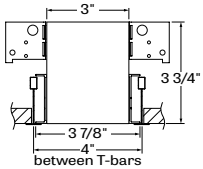


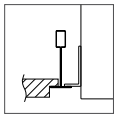
* For regressed lens, the hole width is 3 5/16".

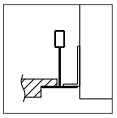
DRYWALL MUD FLANGE

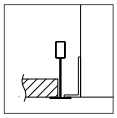


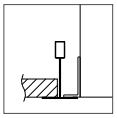
GRID

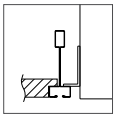



TG9
Tegular 9/16"


TG15
Tegular 15/16"

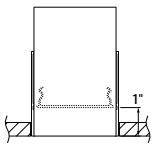

TB9
T-bar 9/16"


TB15
T-bar 15/16"

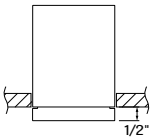

ST
Screw slot T-bar

LENS POSITIONS

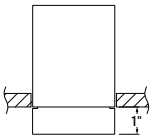
Regressed Lens [1]



0.5" Drop Lens [1]



1.0" Drop Lens [1]



[1] Regressed lens and drop lens positions available with HLO only.

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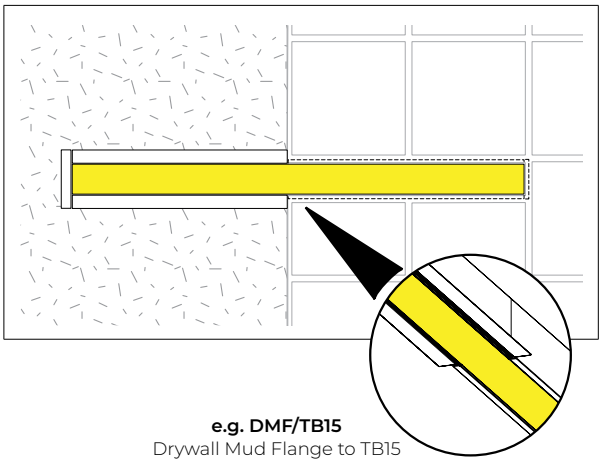
Multiple Flange Mounting Details

Multiple flange mounting can be specified when a fixture run needs to have a multiple flange recessed mounting detail. A drawing is required to clearly illustrate the application.

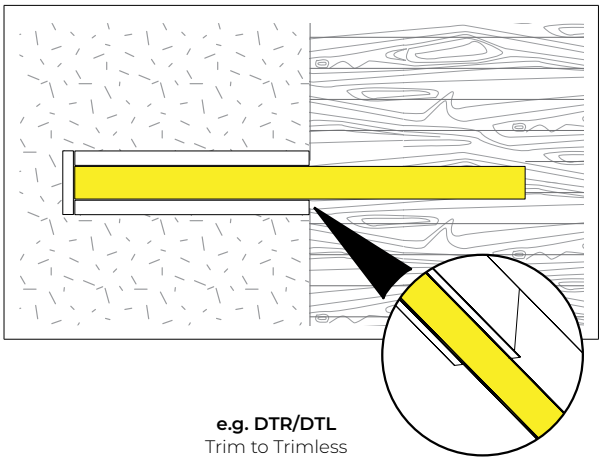
CEILING CONDITION EXAMPLES (consult factory for project specific ceiling conditions)

DRYWALL/GRID



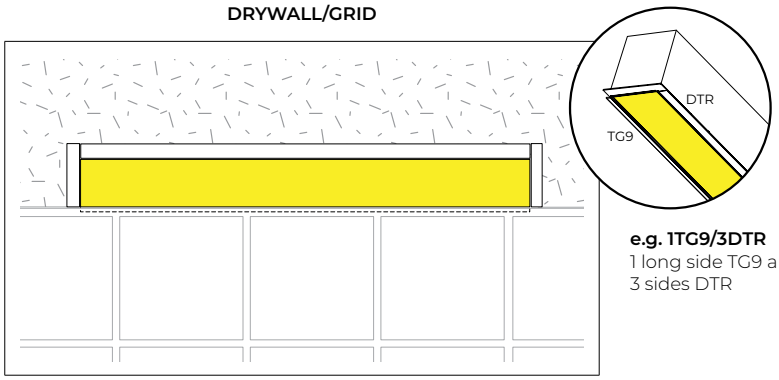
e.g. DMF/TB15
Drywall Mud Flange to TB15

DRYWALL/WOOD



e.g. DTR/DTL
Trim to Trimless

DRYWALL/GRID

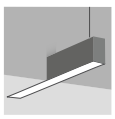


e.g. 1TG9/3DTR
1 long side TG9 and other
3 sides DTR

All drawings are for illustrative purposes only.

TRANSITION MOUNTING OPTIONS (consult factory for details)

Mounting condition alters along the run of the fixture.


Recessed to Pendant


Surface to Pendant


Surface to Recessed in corner


Surface to Pendant in corner

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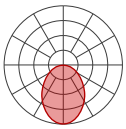
Photometrics

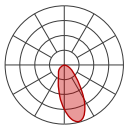
Values calculated based on a 4' fixture at 3500K for all optics.

HLO (Flush lens)



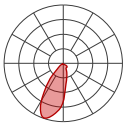
LM/FT	W/FT	LM/W
350	2.8	125
500	4.1	123
750	6.3	119
1000	8.6	116
1200	10.6	113

ARO2



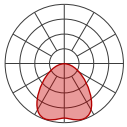
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	113
750	7.0	107
1000	9.7	103
1200	12.1	99

WRO2



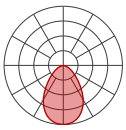
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	112
750	7.0	107
1000	9.8	102
1200	12.1	99

WDO



LM/FT	W/FT	LM/W
350	3.0	118
500	4.3	116
750	6.7	113
1000	9.2	109
1200	11.3	106

LGO

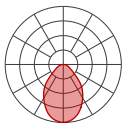


LM/FT	W/FT	LM/W
350	3.2	108
500	4.7	106
750	7.3	102
1000	10.2	98
1200	12.5	96

GRO

LM/FT	W/FT	LM/W
350	3.3	108
500	4.8	104
750	7.6	99
1000	10.6	94
1200	13.2	91

MPO



LM/FT	W/FT	LM/W
350	3.1	112
500	4.5	112
750	6.8	111
1000	9.5	105
1200	12.0	100

MULTIPLIER TABLES

Use these tables to get results for different color temperatures and drop lenses for all photometric tables.

Multiplier - CCT/CRI

CCT	WATTS 80+ CRI / 90+ CRI	LPW 80+ CRI / 90+ CRI
2700K	1.05	0.95
3000K	1.02	0.98
3500K	1.00	1.00
4000K	1.00	1.00
5000K	0.96	1.04

Multiplier - Drop lens

DIRECT LENS	WATTS	LPW
Flush lens	1.00	1.00
Drop lens 0.5"	0.98	1.02
Drop lens 1.0"	0.96	1.04

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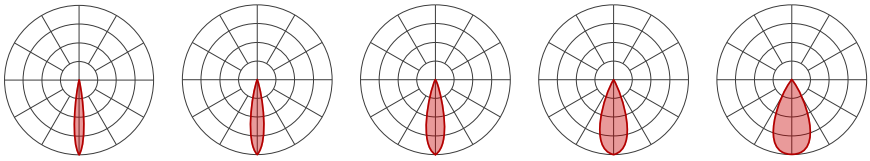
AERA 2" MODULE

Values calculated based on 3500K and SDL lens option.



10° 15° 25° 35° 50°

Delivered lumens

CRI	80+ CRI					90+ CRI				
BEAM	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°
7 W	589	654	714	705	676	550	611	667	659	632

Efficacy

CRI	80+ CRI					90+ CRI				
BEAM	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°
7 W	84	93	102	101	97	79	87	95	94	90

Please follow the multiplier tables to ensure correct lumen value. CCT and lensing will change the lumen value.

CCT	
2700K	0.94
3000K	0.98
3500K	1
4000K	1.05
5000K	1.05

LENS AT BAFFLE	
SDL - Soft diffused lens, Solite	1
FDL - Frosted lens	0.8
CL - Clear lens	1.1

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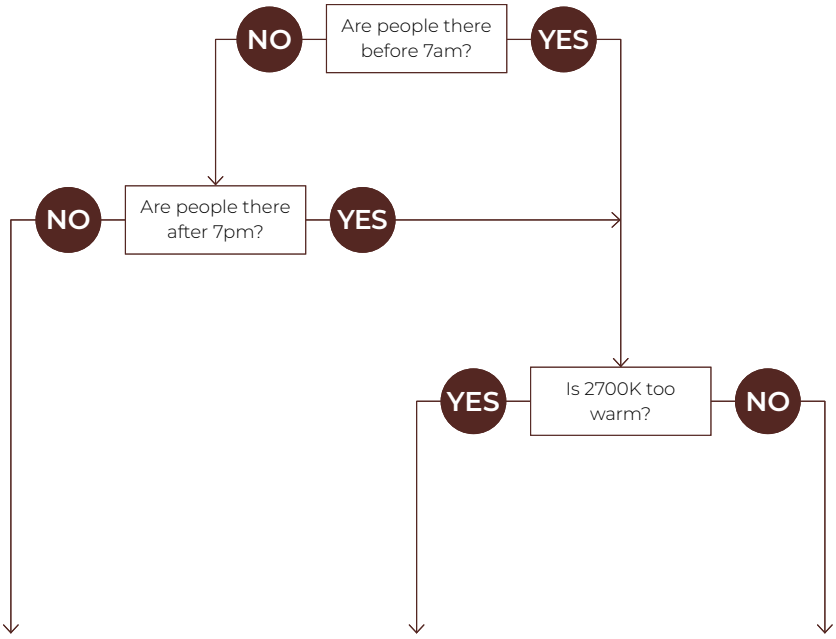
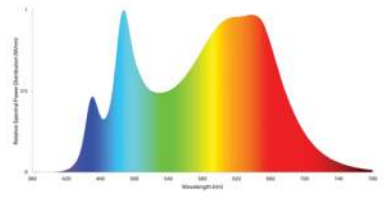
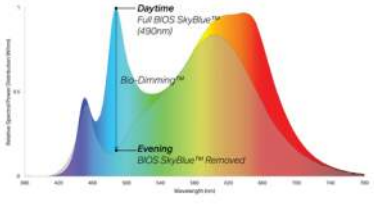
BIOS

Three BIOS Circadian LED solutions are offered – Biological Static, Biological Dynamic, and Biological Tunable. Use the decision tree below to identify when and where to use BIOS Wellness LED Lighting Solutions.



Biological Static BIOSST	Biological Dynamic BIOSDY	Biological Tunable BIOSTU
No CCT change when dimmed	500K shift when dimmed	Dims to 2700K
Daytime solution	Daytime + evening solution	Daytime + evening solution
Spaces in operation during daytime hours, between 7am and 7pm	Spaces in operation overnight, after 7pm and before 7am, and when CCT color shift in the evening is not preferred	Suitable for spaces in operation overnight, after 7pm and before 7am, and where people do not sleep (CCT color shift in the evening is preferred)
E.g. offices, medical/dental offices	E.g. hospitals	E.g. offices, shiftwork
		

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Technical Specifications

OPTICS

High-Efficiency Lambertian Optic (HLO)
The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. Available as a flush lens or as a drop lens, the HLO has a spacing criterion of 1.10.

Asymmetric Refractive Optic (ARO2)
The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

Wall Wash Refractive Optic (WRO2)
The Wall Wash Refractive Optic (WRO2) delivers smooth vertical illumination with a gentle gradient and soft visual cut-off. Its exacting configuration creates a strong downward light component without shadows or hot spots and provides light distribution with peak intensity at 21° above nadir. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

Widespread Direct Optic (WDO)
The Widespread Direct Optic (WDO) is designed to distribute light far and wide. As such, it has an excellent luminous efficacy, a light span that is 40% farther than that of our traditional HLO, and it maximizes spacing distance while still creating a sense of uniformity. The lens snaps into place and utilizes nano prismatic optics to mask the diodes that are actually emitting the light.

Low-Glare Optic (LGO)
The Low-Glare Optic (LGO) is designed to cut off high-angled light and control glare. The carefully crafted lens refracts light downward through its center from which it then disperses into a wide conical distribution that negates any illumination at about 40°. The LGO provides the visual comfort of a louver in a smooth acrylic lens.

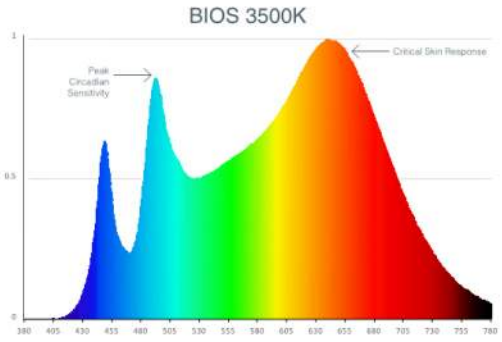
Grazing Reflector Optic (GRO)
The Grazing Reflector Optic (GRO) is oriented to project light with maximum luminous intensity at 5° from nadir. This provides a tight beam to highlight and accentuate a wall with subtle vertical illumination.

Micro-Prismatic Optic (MPO)
The Micro-Prismatic Optic (MPO) delivers high-efficiency, low-glare illumination with UGR <17. Its precision-engineered lens, composed of thousands of tiny prisms, diffuses light to reduce glare, producing a ceiling plane that reads smooth from a distance while revealing subtle texture up close. The result is balanced, efficient illumination with a refined architectural presence.

LIGHT SOURCE

Static white
Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K, 4000K, and 5000K with a minimum 80+ CRI and an option for 90+ CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

BIOS
BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being.
The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



Three BIOS solutions are offered: BIOS Biological Static (BIOSST), BIOS Biological Dynamic (BIOSDY), and BIOS Biological Tunable (BIOSTU). See page 7 for details.

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LUMINAIRE LENGTH

Via 3 is available in standard lengths of 2' to 12' (up to 8' for MPO). Continuous runs are available for run lengths over 12' (8' for MPO). Exact run length must be noted in the product code. The minimum length is 2', and can be ordered in 1' and/or 1" increments. All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277 VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% Eco, eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, ELV, TRIAC, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant. ELV and TRIAC dimming performance (including minimum dimming percentage) subject to dimmer selection.

PoE
Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

Electrical sections
Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.
Code: 2MC-2EC96

Example 2: A 24' Direct fixture with one 4' generator transfer device section.
Code: 1MC-1GTD48

Battery
Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required.
Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

MOUNTING

Recessed fixtures can be mounted into exposed or concealed T-bar or tegular ceiling, as well as in ceilings with trim, trimless, or mud flange options. Via 3 is compatible with 4" Armstrong Techzone™ & USG ceilings.

FINISH

Interior: 95%, reflective matte powder coated white paint
Exterior: Matte white or matte black powder coating. Custom finishes are also available.

CONTROLS

Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.
For latest information on sensors, click here.

Standalone controls
An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, sensor location, blank size, and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details.
Three types are available:

OMS: An integral Passive InfraRed (PIR) sensor turns luminaires on and off automatically with field-adjustable time out period. No wall control is used. Coverage pattern for large motion has a 12' diameter with the sensor mounted 8' above the floor; for small motion, the pattern has an 8' diameter. Typically, one sensor is required for every 10' of a continuous luminaire run.

ODS: An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

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OCS: Both an occupancy and a daylight sensor are installed in the luminaire.

Connected controls
With connected controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand, and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

Lumenwerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by Lumenwerx, depending on the control system manufacturer.

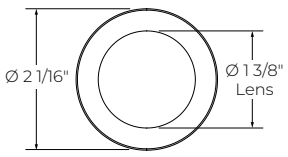
Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

To indicate a Lumenwerx luminaire with connected controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact factory to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

AERA MODULE

Compact COB (Chip-On-Board) LED module, available in 2700K, 3000K, 3500K, 4000K, and 5000K with a choice of 80+ CRI or 90+ CRI, with elevated R9 value for 90+ CRI and above. Color consistency is maintained to within 2 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.



Aera 2"

CONSTRUCTION

Housing: Extruded aluminum, up to 90% recycled content
Interior brackets: Die-formed cold rolled sheet steel
Joining system: Die-cast zinc
Reflectors: Die-formed cold rolled steel, 95% reflective matte white painted
Lens: Acrylic
Drop lens: Extruded with glued end caps
Recessed flanges: Extruded aluminum, up to 90% recycled content
Mud flange: Extruded aluminum, up to 90% recycled content
Slip-through bracket: Die-formed galvanized sheet
End plate: Die-formed cold rolled sheet steel

WEIGHT

4': 11.12 lbs - 5.05 kg
8': 22.25 lbs - 10.1 kg
12': 33.48 lbs - 15.2 kg

CERTIFICATIONS

ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.
Chicago Plenum: City of Chicago Approved (CCEA) when specified with CP option.
IC rated: Suitable for direct contact with insulation
Declare: LBC Red List Approved

WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

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SENSORS
For latest information on sensors, click here.

Our elegant, flexible Via family is composed of linear, pendant, surface, recessed, and wall mounted luminaires. Each lighting fixture can be installed as a discrete luminaire or in continuous runs or patterns. Via 3 Recessed is offered with Lambertian, asymmetric, widespread, wall wash, low-glare, or grazing reflector optics.

Module Option

DIRECT

HLO ARO2 WRO2 WDO LGO GRO MPO

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Project: _____

Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	OPTIC	LENS POSITION	LIGHT SOURCE [2]
VIA3R	**D**			
VIA3R - Via 3" Recessed	**D** - Direct	**HLO** - High-Efficiency Lambertian Optic **ARO2** - Asymmetric Refractive Optic **WRO2** - Wall Wash Refractive Optic **WDO** - Widespread Direct Optic **LGO** - Low-Glare Optic **GRO** - Grazing Reflector Optic **MPO** - Micro-Prismatic Optic	**FH** [1] - Flush **RG** [1] - Regressed **0.5D** [1] - 0.5" drop **1.0D** [1] - 1.0" drop [1] • For HLO, specify FH, RG, 0.5D, or 1.0D. • For ARO2, WRO2, WDO, LGO, GRO, and MPO, specify FH.	**SW** - Static white **BIOSST** [3,4] - BIOS Biological Static **BIOSDY** [3,4] - BIOS Biological Dynamic **BIOSTU** [3,4] - BIOS Biological Tunable [2] Chromawerx SOLA, DUO, and QUADRO also available. Consult other spec sheets. [3] Only available with low and medium lumen packages. [4] See page 7 for details.

CRI	LUMEN PACKAGE	COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE
80CRI - 80+ CRI **90CRI** [5] - 90+ CRI [5] Not available with BIOS.	**350LMF** [6] - Hypo output 350 lm/ft **500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** - High output 1000 lm/ft **1200LMF** [7] - Hyper output 1200 lm/ft [6] Minimum 3' fixture. [7] Fixture will be very bright. Use in suitable applications.	**27K** [8] - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** [8] - 5000K [8] Not available with BIOS.	**#FT#IN** - Specify nominal length (#) in 1' and/or 1" increments **Standard nominal lengths:** Single units: 2' to 12' (up to 8' for MPO) Continuous runs: lengths over 12' (8' for MPO)	**120V** - 120V **277V** - 277V **UNV** - 120V-277V **347V** [9] - 347V [9] Available with D1 driver only.

DRIVER [10]	ELECTRICAL	ELECTRICAL SECTIONS (optional) [16,17]	MOUNTING [22]
D1 - 1% 0-10V **DA** [11] - DALI **LDE1** [11] - Lutron Hi-lume 1% Eco **ELD1** - eldoLED 1% ECOdrive 0-10V **ELD0** - eldoLED 0.1% SOLOdrive 0-10V **ELV** [12] - ELV 120V **TRI** [12] - TRIAC 120V [10] PoE (Power-over-Ethernet) compatible. Consult factory for details. [11] On-site commissioning is required. [12] Available with 120V only.	**1C** - 1 circuit **#MC** [13] - Multi circuit **EC** - Emergency-powered fixture **NL** - Night light fixture **DL** - Daylight fixture **GTD** [14,15] - Generator transfer device fixture [13] Specify total number of circuits (#), including any required for electrical section or module options. Provide drawing or layout specifications. Minimum 4' section per circuit. [14] Minimum 4' fixture. [15] Not available with 347V.	**#EC##** [18] - Emergency-powered section **#NL##** [18] - Night light section **#DL##** [18] - Daylight section **#GTD##** [18,19,20] - Generator transfer device section **#EMB** [20,21] - Emergency battery **NA** - None [16] Specify with multi circuit (#MC) electrical option only. [17] Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. [18] Specify quantity (#), and section length in inches (##). [19] Minimum 4' section. [20] Not available with 347V. [21] Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section.	**TG9** - Tegular 9/16" **TG15** - Tegular 15/16" **TB9** - T-bar 9/16" **TB15** - T-bar 15/16" **ST** - Screw slot T-bar **DTR** - Trim **DTL** - Trimless **DMF** - Drywall mud flange **MFM** [23] - Multiple flange mounting [22] Transition mounting options also available (e.g. Recessed to Pendant/Surface), consult factory for details. [23] See page 4 for details.

FINISH	CONTROL [24,25]		OPTIONS [31]	MODULE (optional) [32,33]
W - Matte white **B** - Matte black **CF#** - Custom finish, specify RAL#	STANDALONE CONTROLS [26,27] Specify the quantity (#) of sensors per fixture. **#OMS** [28] - Onboard Occupancy **#OMS##** [29] - Onboard Occupancy with bi-level dimming **#ODS** - Onboard Daylight **#OCS** - Onboard Occupancy & Daylight	CONNECTED CONTROLS [30] **LU** - Lutron **AWNR** - Lutron Athena Wireless Node RF Only **AWNS** - Lutron Athena Wireless Node Sensor **ENC** - Encelium **WL** - Cooper Wavelinx **AN** - Acuity nLight **CA** - Casambi **LG** - Legrand	**FU120** - Fuse 120V **FU277** - Fuse 277V **FWC** - Flexible whip cable (6' std) **CP** - Chicago Plenum **NA** - None [31] Separate codes with a "+" if more than one is specified.	**#AE2R( )** - Aera 2" round downlight **NA** - None [32] See page 3 for ordering details. [33] Not available with ELV/TRI driver options.
	NA - None			
	[24] Standalone and connected control options cannot be combined. [25] Available with flush lens option only. [26] Available with D1 driver and 1 circuit options only. [27] Minimum 4' per zone. Provide control zone length.	[28] Fixture turns off when no occupancy. [29] Fixture dims to specified light level % (##). [30] Consult factory for connected controls.		

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Module Code

For a module, specify the options in the parentheses.
The module is trimless and the light source is static white.
CRI of module matches specification of main fixture.

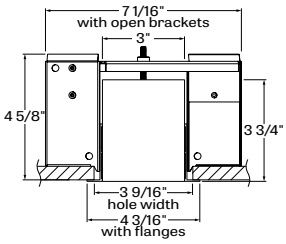
Example: 1AE2R(7W-10DEG-27K-SDL-FTMW)

MODULE (optional)

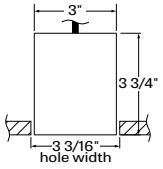
MODULE [1,2,3]	WATTAGE	BEAM ANGLE	COLOR TEMP.	LENS AT BAFFLE	BAFFLE FINISH
#AE2R( ) - Aera 2" round downlight [1] Minimum 4' fixture and minimum 2' section per module. Consult factory for other configurations. [2] Specify quantity (#). [3] 6" blank per module. Blank finish will match fixture finish.	**7W** - 7 W output, up to 714 lm	**10DEG** - 10° very narrow spot **15DEG** - 15° Narrow spot **25DEG** - 25° Spot **35DEG** - 35° Narrow flood **50DEG** - 50° Wide flood	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K	**SDL** - Soft diffused lens, solite **FDL** - Frosted diffused lens **CL** - Clear lens	**FTMW** - Matte white **FTMB** - Matte black **FSPC** - Satin silver **FSSPC** - Matte silver **FCHP** - Champagne **FDBZ** - Dark bronze **CF#** - Custom finish, specify RAL#

Dimensions

TRIM

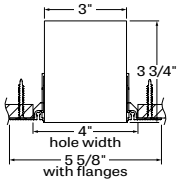


TRIMLESS

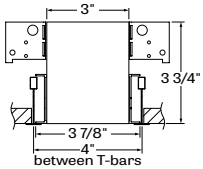


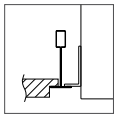
* For regressed lens, the hole width is 3 5/16".

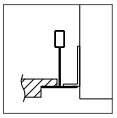
DRYWALL MUD FLANGE

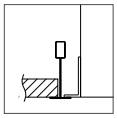


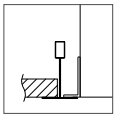
GRID

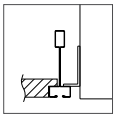



TG9
Tegular 9/16"


TG15
Tegular 15/16"

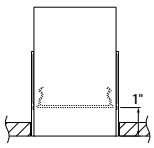

TB9
T-bar 9/16"


TB15
T-bar 15/16"

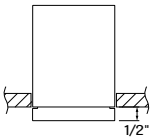

ST
Screw slot T-bar

LENS POSITIONS

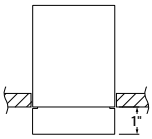
Regressed Lens [1]



0.5" Drop Lens [1]



1.0" Drop Lens [1]



[1] Regressed lens and drop lens positions available with HLO only.

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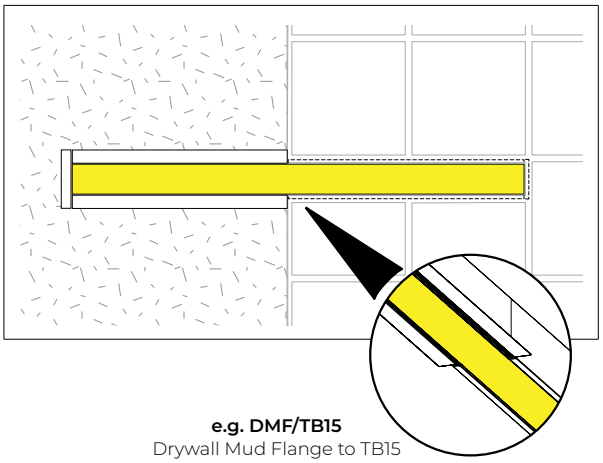
Multiple Flange Mounting Details

Multiple flange mounting can be specified when a fixture run needs to have a multiple flange recessed mounting detail. A drawing is required to clearly illustrate the application.

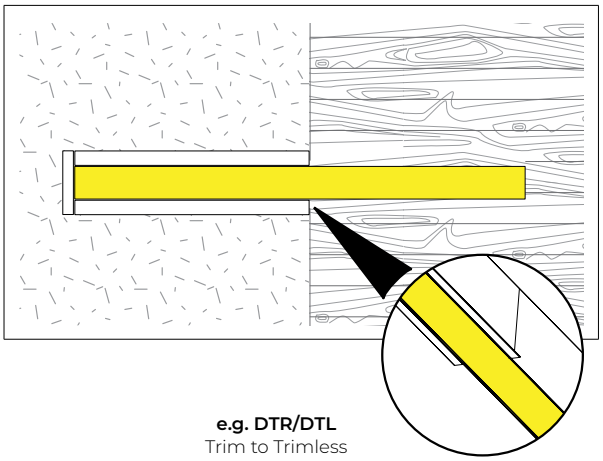
CEILING CONDITION EXAMPLES (consult factory for project specific ceiling conditions)

DRYWALL/GRID



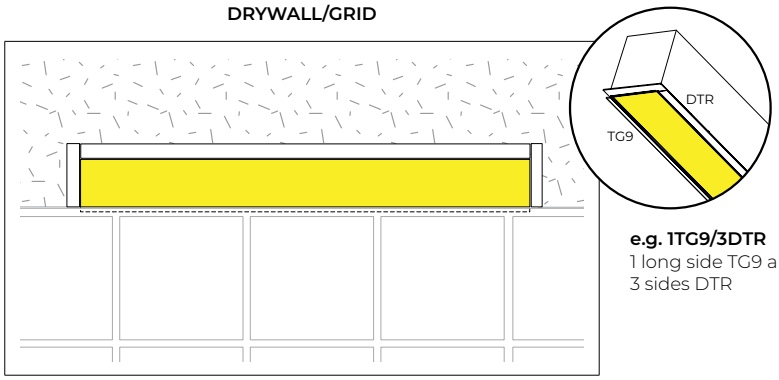
e.g. DMF/TB15
Drywall Mud Flange to TB15

DRYWALL/WOOD



e.g. DTR/DTL
Trim to Trimless

DRYWALL/GRID

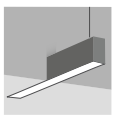


e.g. 1TG9/3DTR
1 long side TG9 and other
3 sides DTR

All drawings are for illustrative purposes only.

TRANSITION MOUNTING OPTIONS (consult factory for details)

Mounting condition alters along the run of the fixture.


Recessed to Pendant


Surface to Pendant


Surface to Recessed in corner


Surface to Pendant in corner

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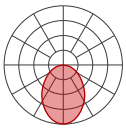
Photometrics

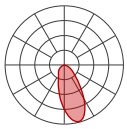
Values calculated based on a 4' fixture at 3500K for all optics.

HLO (Flush lens)



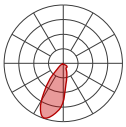
LM/FT	W/FT	LM/W
350	2.8	125
500	4.1	123
750	6.3	119
1000	8.6	116
1200	10.6	113

ARO2



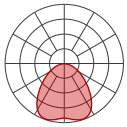
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	113
750	7.0	107
1000	9.7	103
1200	12.1	99

WRO2



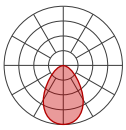
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	112
750	7.0	107
1000	9.8	102
1200	12.1	99

WDO



LM/FT	W/FT	LM/W
350	3.0	118
500	4.3	116
750	6.7	113
1000	9.2	109
1200	11.3	106

LGO

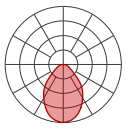


LM/FT	W/FT	LM/W
350	3.2	108
500	4.7	106
750	7.3	102
1000	10.2	98
1200	12.5	96

GRO

LM/FT	W/FT	LM/W
350	3.3	108
500	4.8	104
750	7.6	99
1000	10.6	94
1200	13.2	91

MPO



LM/FT	W/FT	LM/W
350	3.1	112
500	4.5	112
750	6.8	111
1000	9.5	105
1200	12.0	100

MULTIPLIER TABLES

Use these tables to get results for different color temperatures and drop lenses for all photometric tables.

Multiplier - CCT/CRI

CCT	WATTS 80+ CRI / 90+ CRI	LPW 80+ CRI / 90+ CRI
2700K	1.05	0.95
3000K	1.02	0.98
3500K	1.00	1.00
4000K	1.00	1.00
5000K	0.96	1.04

Multiplier - Drop lens

DIRECT LENS	WATTS	LPW
Flush lens	1.00	1.00
Drop lens 0.5"	0.98	1.02
Drop lens 1.0"	0.96	1.04

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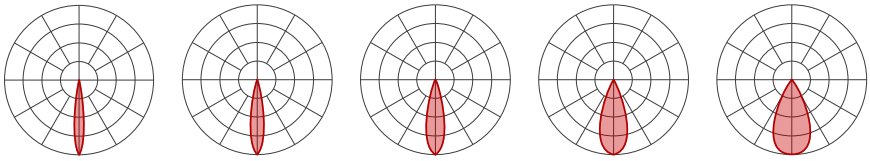
AERA 2" MODULE

Values calculated based on 3500K and SDL lens option.



10° 15° 25° 35° 50°

Delivered lumens

CRI	80+ CRI					90+ CRI				
BEAM	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°
7 W	589	654	714	705	676	550	611	667	659	632

Efficacy

CRI	80+ CRI					90+ CRI				
BEAM	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°
7 W	84	93	102	101	97	79	87	95	94	90

Please follow the multiplier tables to ensure correct lumen value. CCT and lensing will change the lumen value.

CCT	
2700K	0.94
3000K	0.98
3500K	1
4000K	1.05
5000K	1.05

LENS AT BAFFLE	
SDL - Soft diffused lens, Solite	1
FDL - Frosted lens	0.8
CL - Clear lens	1.1

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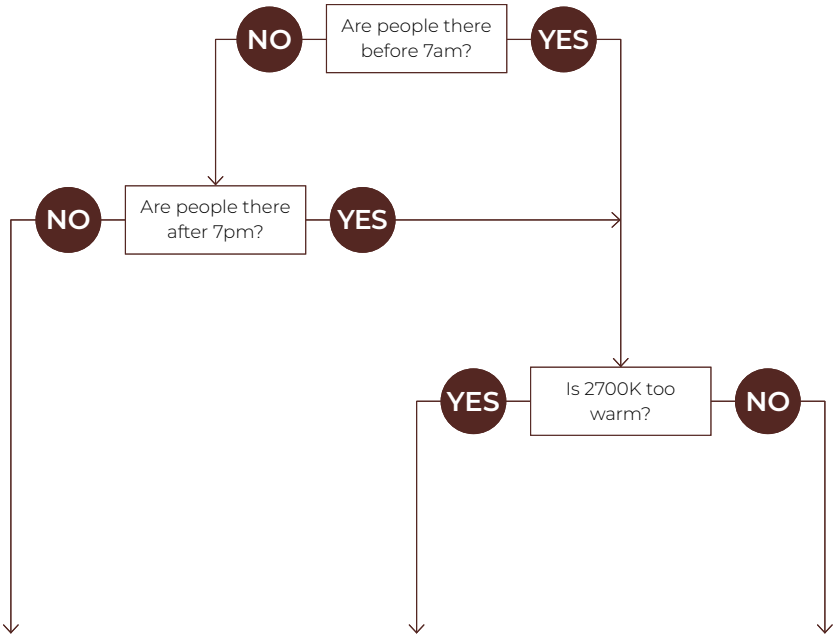
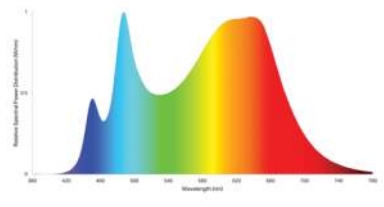
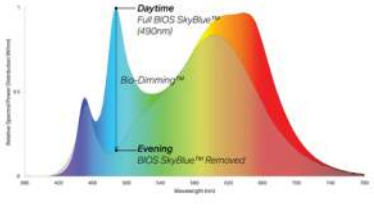
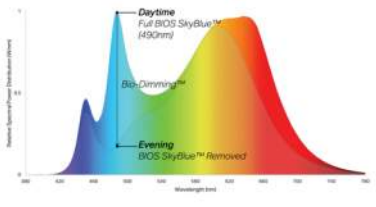
STATIC WHITE, BIOS

BIOS

Three BIOS Circadian LED solutions are offered – Biological Static, Biological Dynamic, and Biological Tunable. Use the decision tree below to identify when and where to use BIOS Wellness LED Lighting Solutions.



Biological Static BIOSST	Biological Dynamic BIOSDY	Biological Tunable BIOSTU
No CCT change when dimmed	500K shift when dimmed	Dims to 2700K
Daytime solution	Daytime + evening solution	Daytime + evening solution
Spaces in operation during daytime hours, between 7am and 7pm	Spaces in operation overnight, after 7pm and before 7am, and when CCT color shift in the evening is not preferred	Suitable for spaces in operation overnight, after 7pm and before 7am, and where people do not sleep (CCT color shift in the evening is preferred)
E.g. offices, medical/dental offices	E.g. hospitals	E.g. offices, shiftwork
		

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Technical Specifications

OPTICS

High-Efficiency Lambertian Optic (HLO)
The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. Available as a flush lens or as a drop lens, the HLO has a spacing criterion of 1.10.

Asymmetric Refractive Optic (ARO2)
The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

Wall Wash Refractive Optic (WRO2)
The Wall Wash Refractive Optic (WRO2) delivers smooth vertical illumination with a gentle gradient and soft visual cut-off. Its exacting configuration creates a strong downward light component without shadows or hot spots and provides light distribution with peak intensity at 21° above nadir. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

Widespread Direct Optic (WDO)
The Widespread Direct Optic (WDO) is designed to distribute light far and wide. As such, it has an excellent luminous efficacy, a light span that is 40% farther than that of our traditional HLO, and it maximizes spacing distance while still creating a sense of uniformity. The lens snaps into place and utilizes nano prismatic optics to mask the diodes that are actually emitting the light.

Low-Glare Optic (LGO)
The Low-Glare Optic (LGO) is designed to cut off high-angled light and control glare. The carefully crafted lens refracts light downward through its center from which it then disperses into a wide conical distribution that negates any illumination at about 40°. The LGO provides the visual comfort of a louver in a smooth acrylic lens.

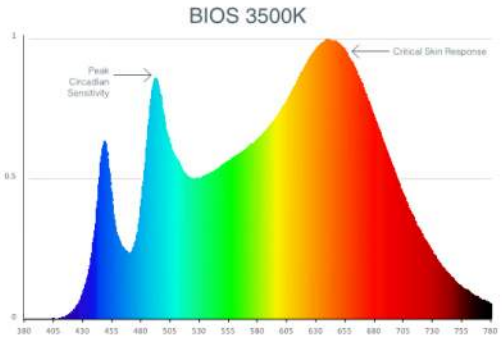
Grazing Reflector Optic (GRO)
The Grazing Reflector Optic (GRO) is oriented to project light with maximum luminous intensity at 5° from nadir. This provides a tight beam to highlight and accentuate a wall with subtle vertical illumination.

Micro-Prismatic Optic (MPO)
The Micro-Prismatic Optic (MPO) delivers high-efficiency, low-glare illumination with UGR <17. Its precision-engineered lens, composed of thousands of tiny prisms, diffuses light to reduce glare, producing a ceiling plane that reads smooth from a distance while revealing subtle texture up close. The result is balanced, efficient illumination with a refined architectural presence.

LIGHT SOURCE

Static white
Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K, 4000K, and 5000K with a minimum 80+ CRI and an option for 90+ CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

BIOS
BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being.
The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



Three BIOS solutions are offered: BIOS Biological Static (BIOSST), BIOS Biological Dynamic (BIOSDY), and BIOS Biological Tunable (BIOSTU). See page 7 for details.

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LUMINAIRE LENGTH

Via 3 is available in standard lengths of 2' to 12' (up to 8' for MPO). Continuous runs are available for run lengths over 12' (8' for MPO). Exact run length must be noted in the product code. The minimum length is 2', and can be ordered in 1' and/or 1" increments. All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277 VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% Eco, eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, ELV, TRIAC, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant. ELV and TRIAC dimming performance (including minimum dimming percentage) subject to dimmer selection.

PoE
Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

Electrical sections
Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.
Code: 2MC-2EC96

Example 2: A 24' Direct fixture with one 4' generator transfer device section.
Code: 1MC-1GTD48

Battery
Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required.
Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

MOUNTING

Recessed fixtures can be mounted into exposed or concealed T-bar or tegular ceiling, as well as in ceilings with trim, trimless, or mud flange options. Via 3 is compatible with 4" Armstrong Techzone™ & USG ceilings.

FINISH

Interior: 95%, reflective matte powder coated white paint
Exterior: Matte white or matte black powder coating. Custom finishes are also available.

CONTROLS

Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.
For latest information on sensors, click here.

Standalone controls
An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, sensor location, blank size, and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details.
Three types are available:

OMS: An integral Passive InfraRed (PIR) sensor turns luminaires on and off automatically with field-adjustable time out period. No wall control is used. Coverage pattern for large motion has a 12' diameter with the sensor mounted 8' above the floor; for small motion, the pattern has an 8' diameter. Typically, one sensor is required for every 10' of a continuous luminaire run.

ODS: An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

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OCS: Both an occupancy and a daylight sensor are installed in the luminaire.

Connected controls
With connected controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand, and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

Lumenwerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by Lumenwerx, depending on the control system manufacturer.

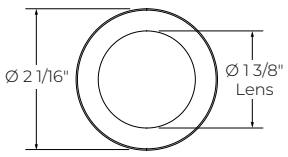
Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

To indicate a Lumenwerx luminaire with connected controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact factory to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

AERA MODULE

Compact COB (Chip-On-Board) LED module, available in 2700K, 3000K, 3500K, 4000K, and 5000K with a choice of 80+ CRI or 90+ CRI, with elevated R9 value for 90+ CRI and above. Color consistency is maintained to within 2 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.



Aera 2"

CONSTRUCTION

Housing: Extruded aluminum, up to 90% recycled content
Interior brackets: Die-formed cold rolled sheet steel
Joining system: Die-cast zinc
Reflectors: Die-formed cold rolled steel, 95% reflective matte white painted
Lens: Acrylic
Drop lens: Extruded with glued end caps
Recessed flanges: Extruded aluminum, up to 90% recycled content
Mud flange: Extruded aluminum, up to 90% recycled content
Slip-through bracket: Die-formed galvanized sheet
End plate: Die-formed cold rolled sheet steel

WEIGHT

4': 11.12 lbs - 5.05 kg
8': 22.25 lbs - 10.1 kg
12': 33.48 lbs - 15.2 kg

CERTIFICATIONS

ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.
Chicago Plenum: City of Chicago Approved (CCEA) when specified with CP option.
IC rated: Suitable for direct contact with insulation
Declare: LBC Red List Approved

WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

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VIA 3 PERIMETER

RECESSED
STATIC WHITE

Lumenwerx

Project: _____

Type: _____


Via 3 Perimeter Deep

DESCRIPTION

Via 3 Perimeter creates a continuously illuminated "slot" at the wall/ceiling intersection. Lighted corners with adjustable end sleeves are available. Via Perimeter installs in grid or drywall ceilings in a choice of three arrangements: level, shallow 1", and deep 3 ¼".

Declare.

IC RATED

5 YEAR WARRANTY

SENSORS
For latest information on sensors, click here.

Up to 121 lm/W performance

Order Guide

LUMINAIRE ID	OPTIC	LIGHT SOURCE	CRI	LUMEN PACKAGE	COLOR TEMP.
		SW			
V3PERL - Via 3 Perimeter Level **V3PERS** - Via 3 Perimeter Shallow **V3PERD** - Via 3 Perimeter Deep	**HLO** - High-Efficiency Lambertian Optic **ARFO** [1] - Asymmetric Room Fill Optic **MPO** - Micro-Prismatic Optic [1] Not available with Deep fixtures.	**SW** - Static white	**80CRI** - 80+ CRI **90CRI** - 90+ CRI	**500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** - High output 1000 lm/ft	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K

LUMINAIRE LENGTH	VOLTAGE	DRIVER [3]	ELECTRICAL	ELECTRICAL SECTIONS (optional) [9, 10]	MOUNTING
#FT#IN - Specify nominal length (#) in 1' and/or 1" increments **Standard nominal lengths:** Single units: 2' to 12' (up to 8' for MPO) Continuous runs: lengths over 12' (8' for MPO)	**120V** - 120V **277V** - 277V **UNV** - 120V-277V **347V** [2] - 347V [2] Available with D1 driver only.	**D1** - 1% 0-10V **ELV** [4] - ELV 120V **TRI** [4] - TRIAC 120V **DA** [5] - DALI **LDE1** [5] - Lutron Hi-lume 1% Eco **ELD1** - eldoLED 1% ECOdrive 0-10V **ELD0** - eldoLED 0.1% SOLOdrive 0-10V [3] PoE (Power-over-Ethernet) compatible. Consult factory for details. [4] Available with 120V only. [5] On-site commissioning is required.	**1C** - 1 circuit **#MC** [6] - Multi circuit **EC** - Emergency-powered fixture **NL** - Night light fixture **DL** - Daylight fixture **GTD** [7, 8] - Generator transfer device fixture [6] Specify total number of circuits (#), including any required for electrical section options. Provide drawing or layout specifications. Minimum 4' section per circuit. [7] Minimum 4' fixture. [8] Not available with 347V.	**#EC##** [11] - Emergency-powered section **#NL##** [11] - Night light section **#DL##** [11] - Daylight section **#GTD##** [11, 12, 13] - Generator transfer device section **#EMB** [13, 14] - Emergency battery **NA** - None [9] Specify with multi circuit (#MC) electrical option only. [10] Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. [11] Specify quantity (#), and section length in inches (##). [12] Minimum 4' section. [13] Not available with 347V. [14] Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section.	**TG9** - Tegular 9/16" **TG15** - Tegular 15/16" **TB9** - T-bar 9/16" **TB15** - T-bar 15/16" **ST** - Screw slot T-bar **DTR** - Trim **DTL** - Trimless **DMF** - Drywall mud flange

FINISH	CONTROL [15]		OPTIONS [20]	ADJUSTABLE SLEEVE (optional) [23]
W - Matte white **CF#** - Custom finish, specify RAL#	STANDALONE CONTROLS [16, 17, 18] Specify the quantity (#) of sensors per fixture. **#ODS** - Onboard Daylight	CONNECTED CONTROLS [19] **LU** - Lutron **AWNR** - Lutron Athena Wireless Node RF Only **AWNS** - Lutron Athena Wireless Node Sensor **ENC** - Encelium **WL** - Cooper Wavelinx **AN** - Acuity nLight **CA** - Casambi **LG** - Legrand	**NEF** [21, 22] - No end flanges **FEP** [22] - Flush end plates **FU120** - Fuse 120V **FU277** - Fuse 277V **FWC** - Flexible whip cable (6' std) **CP** - Chicago Plenum **NA** - None [20] Separate codes with a "+" if more than one is specified. [21] For wall-to-wall installations. [22] See page 4 for details.	**TES** [24] - Adjustable end sleeve **NA** - None [23] See page 4 for details. [24] Minimum 3' fixture for UNV/D1 driver. Minimum 4' fixture for all other drivers. Minimum 5' fixture with EMB option.
	NA - None			
	[15] Standalone and connected control options cannot be combined. [16] Not available with Shallow or Deep fixtures. [17] Available with D1 driver and 1 circuit options only. [18] Minimum 4' per zone. Provide control zone length. [19] Consult factory for connected controls.			

TECHZONE™ & USG Compatible with 4" ceiling

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VIA 3 PERIMETER

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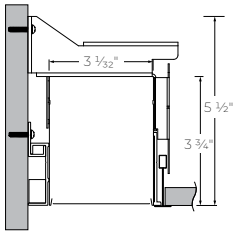
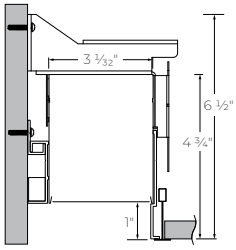
Dimensions

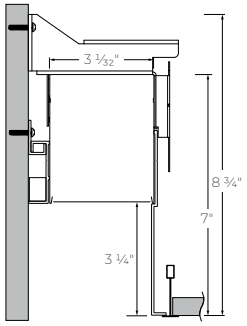
LEVEL



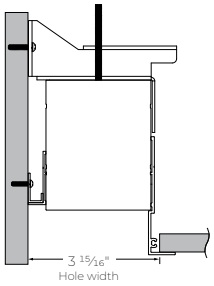
SHALLOW



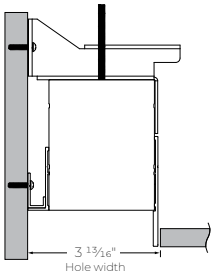
DEEP



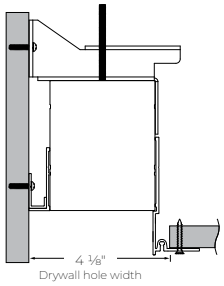
TRIM



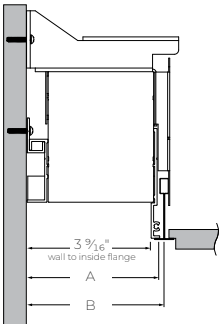
TRIMLESS



DRYWALL MUD FLANGE



GRID



	TG9	TB9	TG15	TB15	ST
	Tegular 9/16"	T-bar 9/16"	Tegular 15/16"	T-bar 15/16"	Screw slot T-bar
A wall to flange	3 13/16"		3 15/16"		3 13/16"
B wall to T-bar	3 7/8"		4"		3 7/8"

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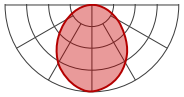
Photometrics

Values calculated based on a 4' fixture at 3500K for all optics.

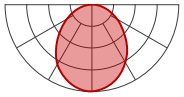
HLO

Level



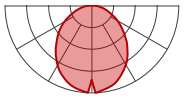
LM/FT	W/FT	LM/W
500	4.1	121
750	6.4	117
1000	8.8	114

Shallow



LM/FT	W/FT	LM/W
500	4.2	118
750	6.5	115
1000	9	111

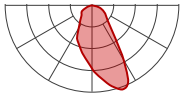
Deep



LM/FT	W/FT	LM/W
500	4.4	113
750	6.9	109
1000	9.5	105

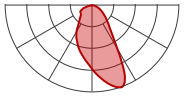
ARFO

Level



LM/FT	W/FT	LM/W
500	5.5	91
750	8.8	85
1000	12.4	81

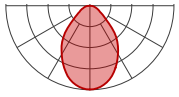
Shallow



LM/FT	W/FT	LM/W
500	5.6	89
750	8.9	84
1000	12.5	80

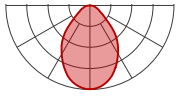
MPO

Level



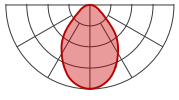
LM/FT	W/FT	LM/W
500	4.5	112
750	6.8	111
1000	9.5	105

Shallow



LM/FT	W/FT	LM/W
500	4.6	109
750	6.9	109
1000	9.7	103

Deep



LM/FT	W/FT	LM/W
500	4.8	104
750	7.3	103
1000	10.3	98

MULTIPLIER TABLE

Use this table to get results for different color temperatures for all photometric tables.

Multiplier - CCT/CRI

CCT	WATTS 80+ CRI / 90+ CRI	LPW 80+ CRI / 90+ CRI
2700K	1.05	0.95
3000K	1.02	0.98
3500K	1.00	1.00
4000K	1.00	1.00
5000K	0.96	1.04

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VIA 3 PERIMETER

RECESSED
STATIC WHITE

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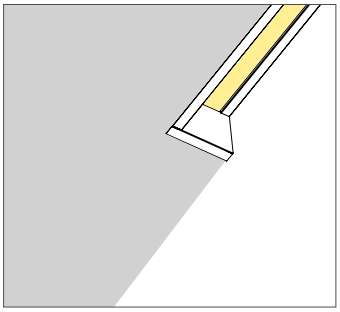
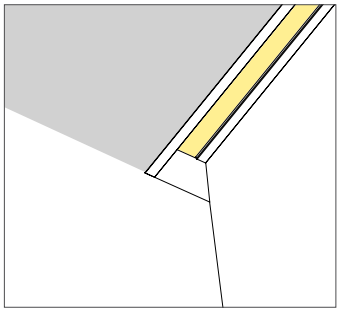
End Configurations

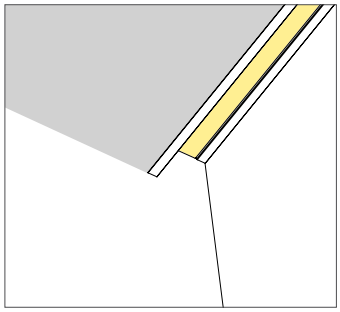
STANDARD



OPTIONS



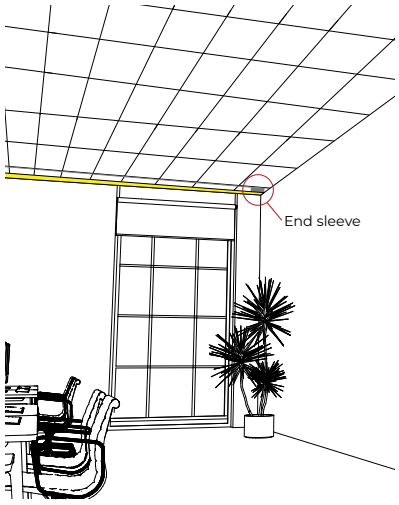
NEF - No end flanges



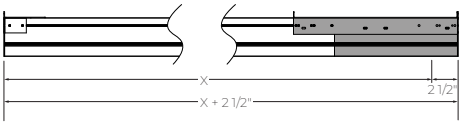
FEP - Flush end plates

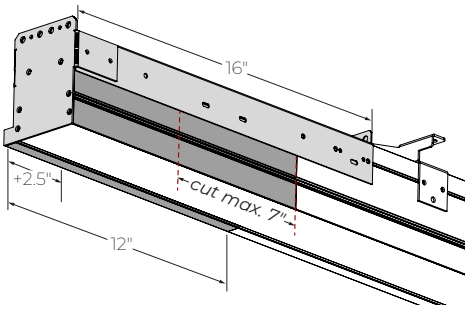
Adjustable End Sleeve - TES

Adjustable end sleeve (TES) is designed to provide on-site luminaire adjustability of +2.5" to -4.5". A sleeve accommodates an easy installation and maintenance. Please refer to the End Sleeve Adjustment Installation Instructions for more details.



X = Fixture measure provided by client.
X + 2.5" = Measurement built and supplied.





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VIA 3 PERIMETER

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Technical Specifications

OPTICS

High-Efficiency Lambertian Optic (HLO)
The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. Luminaire brightness is controlled by the flux-to-shielding area ratio.

Asymmetric Room Fill Optic (ARFO)
Our Asymmetric Room Fill Optic employs an advanced optical system to illuminate rooms and corridors from the perimeter, providing a direct distribution of light with precision and minimal glare.

Micro-Prismatic Optic (MPO)
The Micro-Prismatic Optic (MPO) delivers high-efficiency, low-glare illumination with UGR <17. Its precision-engineered lens, composed of thousands of tiny prisms, diffuses light to reduce glare, producing a ceiling plane that reads smooth from a distance while revealing subtle texture up close. The result is balanced, efficient illumination with a refined architectural presence.

LIGHT SOURCE

Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K, 4000K, and 5000K with a minimum 80+ CRI and an option for 90+ CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operated at reduced drive current to optimize efficacy and lumen maintenance.
All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

LUMINAIRE LENGTH

Via 3 Perimeter is made up of standard 2' to 12' (up to 8' for MPO) sections that may be joined together to create longer continuous run lengths. Exact run lengths must be noted in the product code. The minimum individual section available is 2'.

All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277 VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% Eco, eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant. ELV and TRIAC dimming performance (including minimum dimming percentage) subject to dimmer selection.

PoE
Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

Electrical sections
Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.
Code: 2MC-2EC96

Example 2: A 24' Direct fixture with one 4' generator transfer device section.
Code: 1MC-1GTD48

Battery
Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required.
Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

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PoE

VIA 3 PERIMETER

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MOUNTING

Recessed fixtures can be mounted into exposed or concealed T-bar or tegular ceiling, as well as in ceilings with trim, trimless, or mud flange options.

FINISH

Interior: 95%, reflective matte powder coated white paint
Exterior: Matte white powder coating.
Custom finishes are also available.

CONTROLS

Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.
For latest information on sensors, click here.

Standalone controls
An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, location and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details.
One type is available:

ODS: An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

Connected controls
With connected controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand, and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

Lumenwerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by Lumenwerx, depending on the control system manufacturer.

Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

To indicate a Lumenwerx luminaire with connected controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact factory to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

CONSTRUCTION

Housing: Extruded aluminum, up to 90% recycled content
Interior brackets: Die-formed cold rolled sheet steel
Joining system: Die-cast zinc
Reflectors: Flat rolled aluminum sheet or die-formed cold rolled steel, 95% reflective matte white painted
Lens: Acrylic
Recessed flanges: Extruded aluminum, up to 90% recycled content
End plate: Die-formed cold rolled sheet steel

MAINTENANCE

LED boards are housed in a removable cartridge for easy replacement. Driver is accessible from below.

WEIGHT

4': 11.12 lbs - 5.05 kg
8': 22.25 lbs - 10.1 kg
12': 33.48 lbs - 15.2 kg

CERTIFICATIONS

ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.
Chicago Plenum: City of Chicago Approved (CCEA) when specified with CP option.
IC rated: Suitable for direct contact with insulation
Declare: LBC Red List Approved

WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

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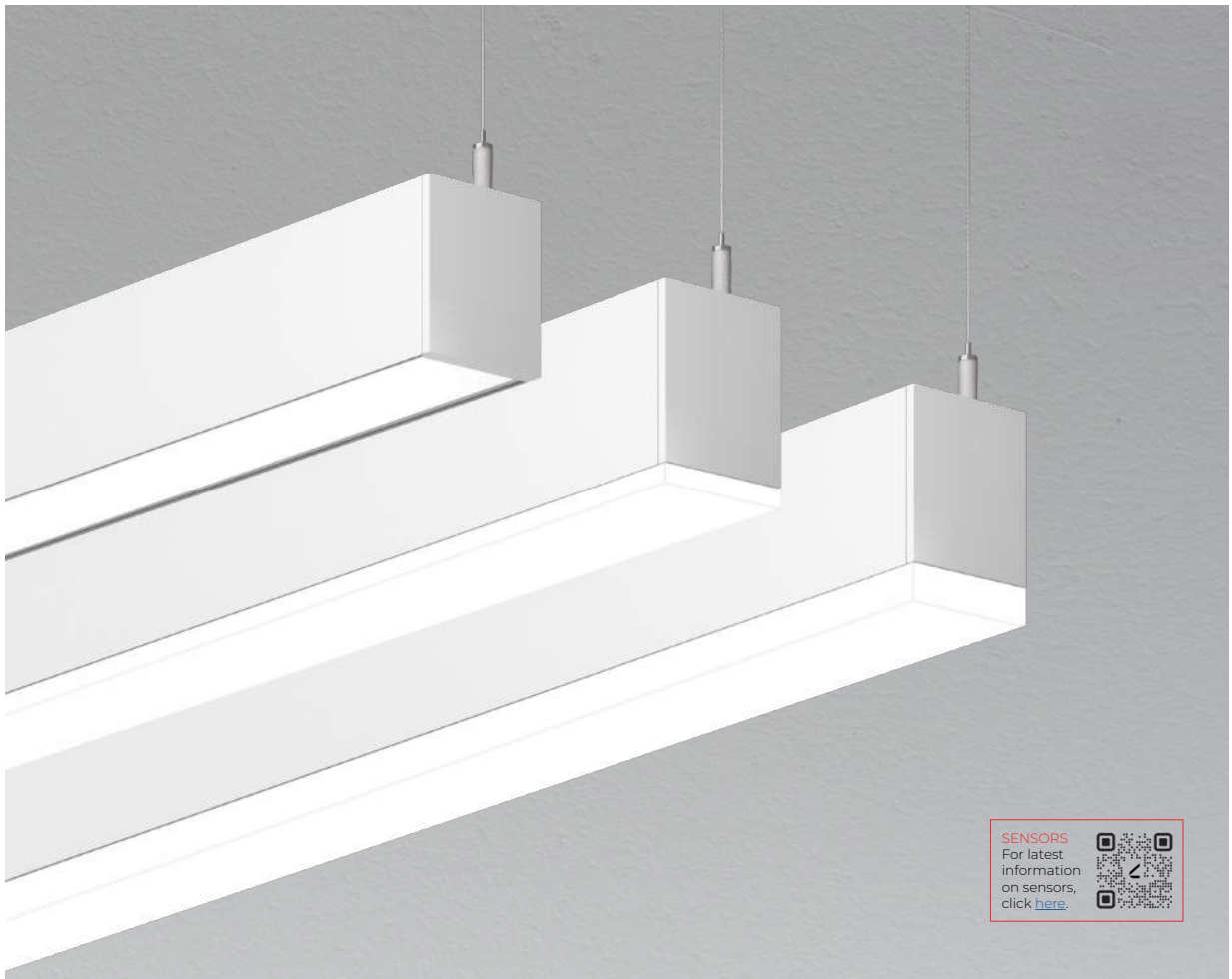
VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Lumenwerx

Declare.

5 YEAR WARRANTY 5



SENSORS
For latest information on sensors, click here.

Module Option

Our elegant, flexible Via family is composed of linear, pendant, surface, recessed, and wall mounted luminaires. Each lighting fixture can be installed as a discrete luminaire or in continuous runs or patterns. Via 3 Pendant is offered with Lambertian, asymmetric, widespread, wall wash, or low-glare optics.

DIRECT

HLO ARO2 WRO2 WDO LGO MPO

INDIRECT

WIO2 TIO WAI2 HLO ARO2

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VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Lumenwerx

Project: _____

Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	DIRECT OPTIC Specify NA for Indirect fixture	LENS POSITION Specify NA for Indirect fixture	INDIRECT OPTIC Specify NA for Direct fixture	LIGHT SOURCE [6]
VIA3P					
VIA3P - Via 3" Pendant	**DI** - Direct/ Indirect **D** - Direct **I** - Indirect	**HLO** - High-Efficiency Lambertian Optic **ARO2** - Asymmetric Refractive Optic **WRO2** - Wall Wash Refractive Optic **WDO** - Widespread Direct Optic **LGO** - Low-Glare Optic **MPO** - Micro-Prismatic Optic **NA** - Not applicable	**FH** [1] - Flush **0.5D** [1] - 0.5" drop **1.0D** [1] - 1.0" drop **NA** [1] - Not applicable [1] - For HLO, specify FH, 0.5D, or 1.0D. - For ARO2, WRO2, WDO, LGO, and MPO, specify FH. - For an Indirect fixture, specify NA.	**WIO2** [2] - Widespread Indirect Optic **TIO** [3] - Translucent Indirect Optic **WAI2** [4] - Widespread Asymmetric Indirect Optic **HLO** [5] - High-Efficiency Lambertian Optic **ARO2** [5] - Asymmetric Refractive Optic **NA** - Not applicable [2] Not available with BIOSTU. [3] Available only with Direct/Indirect. [4] Not available with BIOS. [5] Not available with Direct/Indirect.	**SW** - Static white **BIOSST** [7,8] - BIOS Biological Static **BIOSDY** [7,8] - BIOS Biological Dynamic **BIOSTU** [7,8] - BIOS Biological Tunable [6] Chromawerx SOLA, DUO, and QUADRO also available. Consult other spec sheets [7] Only available with low and medium lumen packages. [8] See page 8 for details.

CRI	DIRECT LUMEN PACKAGE Specify NA for Indirect fixture	INDIRECT LUMEN PACKAGE Specify NA for Direct fixture	COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE
80CRI - 80+ CRI **90CRI** [9] - 90+ CRI [9] Not available with BIOS.	**350LMF** [10] - Hypo output 350 lm/ft **500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** - High output 1000 lm/ft **1200LMF** [11] - Hyper output 1200 lm/ft **NA** - Not applicable [10] Minimum 3' fixture. [11] Fixture will be very bright. Use in suitable applications.	**350LMF** - Hypo output 350 lm/ft **500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** - High output 1000 lm/ft **1200LMF** [11] - Hyper output 1200 lm/ft **NA** - Not applicable	**27K** [12] - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** [12] - 5000K [12] Not available with BIOS.	**#FT#IN** [13] - Specify nominal length (#) in 1' and/or 1" increments **Standard nominal lengths:** Single units: 2' to 12' (up to 8' for MPO) Continuous runs: lengths over 12' (8' for MPO) [13] Minimum 3' for Direct/Indirect.	**120V** - 120V **277V** - 277V **UNV** - 120V-277V **347V** [14] - 347V [14] Available with D1 driver only.

DRIVER [15]	ELECTRICAL	ELECTRICAL SECTIONS (optional) [22,23]	MOUNTING [28]
D1 - 1% 0-10V **DA** [16] - DALI **LDE1** [16] - Lutron Hi-lume 1% Eco **ELD1** - eldoLED 1% ECOdrive 0-10V **ELD0** - eldoLED 0.1% SOLOdrive 0-10V **ELV** [17] - ELV 120V **TRI** [17] - TRIAC 120V [15] PoE (Power-over-Ethernet) compatible. Consult factory for details. [16] On-site commissioning is required. [17] Available with 120V only.	**1C** - 1 circuit **2C** [18] - 2 circuits **#MC** [19] - Multi circuit **EC** - Emergency-powered fixture **NL** - Night light fixture **DL** - Daylight fixture **GTD** [20,21] - Generator transfer device fixture [18] Available for Direct/Indirect only. Separate direct and indirect circuits. [19] Specify total number of circuits (#), including any required for electrical section or module options. Provide drawing or layout specifications. Minimum 4' section per circuit. [20] Minimum 4' fixture. [21] Not available with 347V.	**#EC##** [24] - Emergency-powered section **#NL##** [24] - Night light section **#DL##** [24] - Daylight section **#GTD##** [24,25,26] - Generator transfer device section **#EMB** [26,27] - Emergency battery **NA** - None [22] Specify with multi circuit (#MC) electrical option only. [23] Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. [24] Specify quantity (#), and section length in inches (##). [25] Minimum 4' section. [26] Not available with 347V. [27] Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section. For Direct/Indirect, minimum 8' fixture.	**ACS** - Aircraft cable, standard **STS** - Stem, standard **ACC( )** - Aircraft cable, custom **STC( )** - Stem, custom [28] Standard canopies are black for black fixtures, and white for all other finishes. See page 3 for full details on standard and custom options.

FINISH	CONTROL [29,30]		OPTIONS [36]	MODULE (optional) [38]
W - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	STANDALONE CONTROLS [31,32] Specify the quantity (#) of sensors per fixture. **#OMS** [33] - Onboard Occupancy **#OMS##** [34] - Onboard Occupancy with bi-level dimming **#ODS** - Onboard Daylight **#OCS** - Onboard Occupancy & Daylight	CONNECTED CONTROLS [35] **LU** - Lutron **AWNR** - Lutron Athena Wireless Node RF Only **AWNS** - Lutron Athena Wireless Node Sensor **ENC** - Encelium **WL** - Cooper Wavelinx **AN** - Acuity nLight **CA** - Casambi **LG** - Legrand	**FU120** - Fuse 120V **FU277** - Fuse 277V **CTB9** [37] - T-bar caddy clip, 9/16" **CTB15** [37] - T-bar caddy clip, 15/16" **CTG9** [37] - Tegular caddy clip, 9/16" **CTG15** [37] - Tegular caddy clip, 15/16" **CST** [37] - Screw slot caddy clip **NA** - None [36] Separate codes with a "+" if more than one is specified. [37] Available with aircraft cable only.	**#AE2R( )** - Aera 2" round downlight **NA** - None [38] See page 3 for ordering details.
	NA - None			
	[29] Standalone and connected control options cannot be combined. [30] Available with flush lens option only. [31] Available with D1 driver and 1 circuit options only.	[32] Minimum 4' per zone. Provide control zone length. [33] Fixture turns off when no occupancy. [34] Fixture dims to specified light level % (##). [35] Consult factory for connected controls.		

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VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Lumenwerx

Module Code

For a module, specify the options in the parentheses.
The module is trimless and the light source is static white.
CRI of module matches specification of main fixture.

Example: 1AE2R(7W-10DEG-27K-SDL-FTMW)

MODULE (optional)

MODULE [1,2,3]	WATTAGE	BEAM ANGLE	COLOR TEMP.	LENS AT BAFFLE	BAFFLE FINISH
#AE2R( ) - Aera 2" round downlight [1] Minimum 4' fixture and minimum 2' section per module. Consult factory for other configurations. [2] Specify quantity (#). [3] 6" blank per module. Blank finish will match fixture finish.	**7W** - 7 W output, up to 714 lm **10W** - 10 W output, up to 961 lm	**10DEG** - 10° very narrow spot **15DEG** - 15° Narrow spot **25DEG** - 25° Spot **35DEG** - 35° Narrow flood **50DEG** - 50° Wide flood	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K	**SDL** - Soft diffused lens, solite **FDL** - Frosted diffused lens **CL** - Clear lens	**FTMW** - Matte white **FTMB** - Matte black **FSPC** - Satin silver **FSSPC** - Matte silver **FCHP** - Champagne **FDBZ** - Dark bronze **CF#** - Custom finish, specify RAL#

Pendant Mounting Code

Standard

For a standard mounting, please refer to the information below.

MOUNTING

ACS - Aircraft cable, standard	**STS** - Stem, standard
• Ø 5" for power canopy • Ø 3" for non-power canopy • Canopies are black for black fixtures, and white for all other fixture finishes • Power cord is black for black fixtures, and white for all other fixture finishes • Aircraft cable length is 36"	• Ø 5" for power canopy • Ø 5" for non-power canopy • Canopies are black for black fixtures, and white for all other fixture finishes • Stem finish is the same color as fixture • Stem length is 18" • Stem is not field adjustable

Custom

Aircraft Cable

For a custom mounting, specify the options in the parentheses.

Example: ACC(3NPC-72IN-W-PCB-NA)

MOUNTING

ACC( )

	NON-POWER CANOPY SIZE	AIRCRAFT CABLE LENGTH	CANOPY FINISH	POWER CORD COLOR	OPTION
ACC	**3NPC** - Ø 3" non-power canopy **5NPC** - Ø 5" non-power canopy	**36IN** - 36" **72IN** - 72" **120IN** - 120" **#IN** [1] - Other lengths, specify in inches [1] Maximum length is 288". For longer lengths, please consult factory.	**W** - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	**PCW** - White **PCB** - Black	**SEM** [2] - Seismic mounting **SLC** [2] - Sloped ceiling for aircraft cable **NA** - None [2] Not available with the Ø 3" non-power canopy size.

Stem

For a custom mounting, specify the options in the parentheses.

Example: STC(5NPC-36IN-W-STW-SLS)

MOUNTING

STC( )

	NON-POWER CANOPY SIZE	STEM LENGTH	CANOPY FINISH	STEM COLOR	OPTION
STC	**5NPC** - Ø 5" non-power canopy	**18IN** - 18" **36IN** - 36" **#IN** [3] - Specify length in inches [3] Minimum length is 6". Maximum length is 72". Stem is not field adjustable.	**W** - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	**STW** - Matte white **STAL** - Aluminum **STB** - Matte black **STCF#** - Custom finish, specify RAL#	**SLS** - Sloped ceiling for stem **NA** - None

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VIA 3 PENDANT

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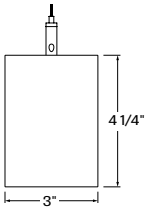
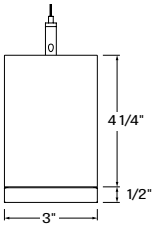
DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Dimensions

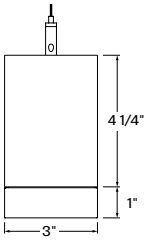
Flush Lens



0.5" Drop Lens [1]



1.0" Drop Lens [1]



[1] Drop lens positions available with HLO direct lens only.

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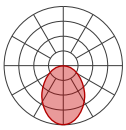
STATIC WHITE, BIOS

Photometrics

Values calculated based on a 4' fixture at 3500K for all optics.

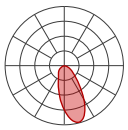
DIRECT OPTICS

HLO (Flush lens)



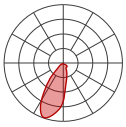
LM/FT	W/FT	LM/W
350	2.8	125
500	4.1	123
750	6.3	119
1000	8.6	116
1200	10.6	113

ARO2



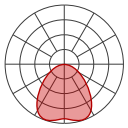
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	113
750	7.0	107
1000	9.7	103
1200	12.1	99

WRO2



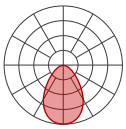
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	112
750	7.0	107
1000	9.8	102
1200	12.1	99

WDO



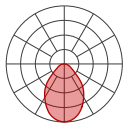
LM/FT	W/FT	LM/W
350	3.0	118
500	4.3	116
750	6.7	113
1000	9.2	109
1200	11.3	106

LGO



LM/FT	W/FT	LM/W
350	3.2	108
500	4.7	106
750	7.3	102
1000	10.2	98
1200	12.5	96

MPO



LM/FT	W/FT	LM/W
350	3.1	112
500	4.5	112
750	6.8	111
1000	9.5	105
1200	12.0	100

MULTIPLIER TABLES

Use these tables to get results for different color temperatures and drop lenses for all photometric tables.

Multiplier - CCT/CRI

CCT	WATTS 80+ CRI / 90+ CRI	LPW 80+ CRI / 90+ CRI
2700K	1.05	0.95
3000K	1.02	0.98
3500K	1.00	1.00
4000K	1.00	1.00
5000K	0.96	1.04

Multiplier - Drop lens

DIRECT LENS	WATTS	LPW
Flush lens	1.00	1.00
Drop lens 0.5"	0.98	1.02
Drop lens 1.0"	0.96	1.04

DIRECT/INDIRECT - LPW CALCULATION

For Direct/Indirect performance values, follow the formula.

$$\frac{\left(\text{DIRECT LM/FT} + \text{INDIRECT LM/FT}\right)}{\left(\text{DIRECT W/FT} + \text{INDIRECT W/FT}\right)} = \text{LPW}$$

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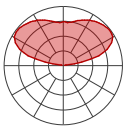
DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Photometrics

Values calculated based on a 4' fixture at 3500K for all optics.

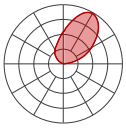
INDIRECT OPTICS

WIO2



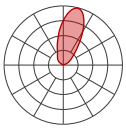
LM/FT	W/FT	LM/W
350	2.4	146
500	3.5	142
750	5.5	137
1000	7.6	132
1200	9.4	128

WAI2



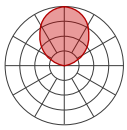
LM/FT	W/FT	LM/W
350	2.5	139
500	3.7	135
750	5.8	130
1000	8.0	125
1200	10.0	120

ARO2



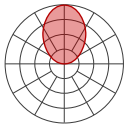
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	113
750	7.0	107
1000	9.7	103
1200	12.1	99

TIO



LM/FT	W/FT	LM/W
350	2.7	127
500	4.0	124
750	6.3	119
1000	8.8	114
1200	10.9	110

HLO



LM/FT	W/FT	LM/W
350	2.8	125
500	4.1	123
750	6.3	119
1000	8.6	116
1200	10.6	113

MULTIPLIER TABLES

Use this table to get results for different color temperatures for all photometric tables.

Multiplier - CCT/CRI

CCT	WATTS 80+ CRI / 90+ CRI	LPW 80+ CRI / 90+ CRI
2700K	1.05	0.95
3000K	1.02	0.98
3500K	1.00	1.00
4000K	1.00	1.00
5000K	0.96	1.04

DIRECT/INDIRECT - LPW CALCULATION

For Direct/Indirect performance values, follow the formula.

$$\frac{\left(\text{DIRECT LM/FT} + \text{INDIRECT LM/FT}\right)}{\left(\text{DIRECT W/FT} + \text{INDIRECT W/FT}\right)} = \text{LPW}$$

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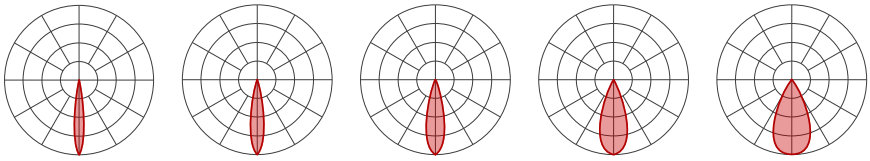
AERA 2" MODULE

Values calculated based on 3500K and SDL lens option.



10° 15° 25° 35° 50°

Delivered lumens

CRI	80+ CRI					90+ CRI				
BEAM	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°
7 W	589	654	714	705	676	550	611	667	659	632
10 W	792	880	961	949	910	740	822	898	887	850

Efficacy

CRI	80+ CRI					90+ CRI				
BEAM	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°
7 W	84	93	102	101	97	79	87	95	94	90
10 W	79	88	96	95	91	74	82	90	89	85

Please follow the multiplier tables to ensure correct lumen value. CCT and lensing will change the lumen value.

CCT	
2700K	0.94
3000K	0.98
3500K	1
4000K	1.05
5000K	1.05

LENS AT BAFFLE	
SDL - Soft diffused lens, Solite	1
FDL - Frosted lens	0.8
CL - Clear lens	1.1

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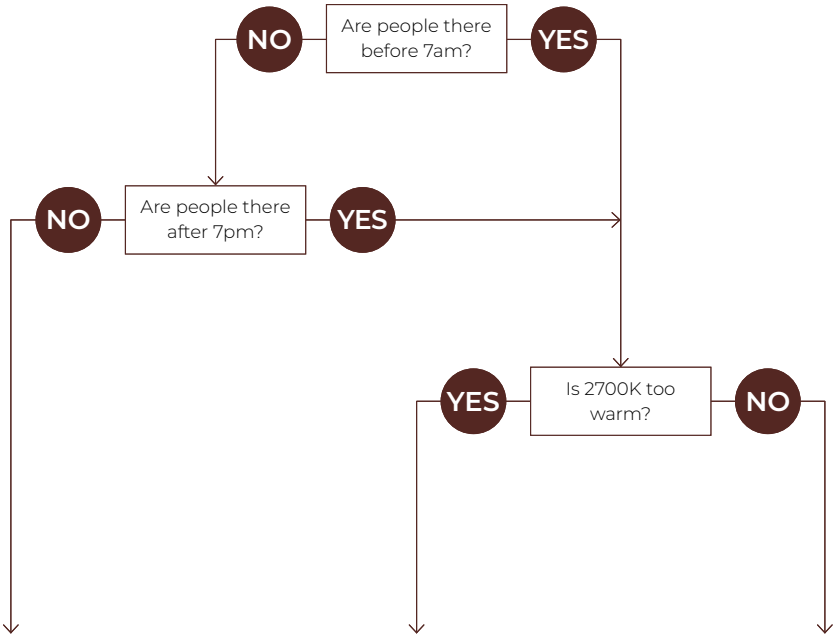
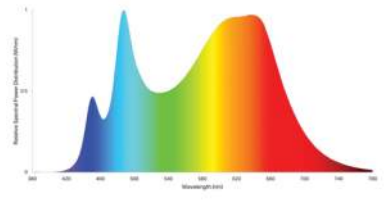
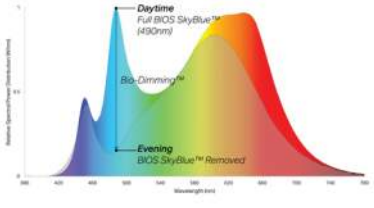
STATIC WHITE, BIOS

BIOS

Three BIOS Circadian LED solutions are offered – Biological Static, Biological Dynamic, and Biological Tunable.
Use the decision tree below to identify when and where to use BIOS Wellness LED Lighting Solutions.



Biological Static BIOSST	Biological Dynamic BIOSDY	Biological Tunable BIOSTU
No CCT change when dimmed	500K shift when dimmed	Dims to 2700K
Daytime solution	Daytime + evening solution	Daytime + evening solution
Spaces in operation during daytime hours, between 7am and 7pm	Spaces in operation overnight, after 7pm and before 7am, and when CCT color shift in the evening is not preferred	Suitable for spaces in operation overnight, after 7pm and before 7am, and where people do not sleep (CCT color shift in the evening is preferred)
E.g. offices, medical/dental offices	E.g. hospitals	E.g. offices, shiftwork
		

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STATIC WHITE, BIOS

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Technical Specifications

DIRECT OPTICS

High-Efficiency Lambertian Optic (HLO)
The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. Available as a flush lens or as a drop lens, the HLO has a spacing criterion of 1.10.

Asymmetric Refractive Optic (ARO2)
The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

Wall Wash Refractive Optic (WRO2)
The Wall Wash Refractive Optic (WRO2) delivers smooth vertical illumination with a gentle gradient and soft visual cut-off. Its exacting configuration creates a strong downward light component without shadows or hot spots and provides light distribution with peak intensity at 21° above nadir. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

Widespread Direct Optic (WDO)
The Widespread Direct Optic (WDO) is designed to distribute light far and wide. As such, it has an excellent luminous efficacy, a light span that is 40% farther than that of our traditional HLO, and it maximizes spacing distance while still creating a sense of uniformity. The lens snaps into place and utilizes nano prismatic optics to mask the diodes that are actually emitting the light.

Low-Glare Optic (LGO)
The Low-Glare Optic (LGO) is designed to cut off high-angled light and control glare. The carefully crafted lens refracts light downward through its center from which it then disperses into a wide conical distribution that negates any illumination at about 40°. The LGO provides the visual comfort of a louver in a smooth acrylic lens.

Micro-Prismatic Optic (MPO)
The Micro-Prismatic Optic (MPO) delivers high-efficiency, low-glare illumination with UGR <17. Its precision-engineered lens, composed of thousands of tiny prisms, diffuses light to reduce glare, producing a ceiling plane that reads smooth from a distance while revealing subtle texture up close. The result is balanced, efficient illumination with a refined architectural presence.

INDIRECT OPTICS

Widespread Indirect Optic (WIO2)
The Widespread Indirect Optic (WIO2) is a horizontal LED array with a widespread indirect micro prismatic optic that offers an impressive 160° spread. WIO2 creates an even illumination for smooth brightness on the ceiling that can achieve uniformity ratios of up to 2:1.

Uniformity [max/min]
Based on 18' continuous runs, in a 20' x 40' room, 10' wall height

Mounting height from ceiling	Spacing (Center to center)		
	8'	10'	12'
12"	5.5	10.0	9.0
18"	3.5	6.0	6.0
24"	2.5	4.0	4.5

Translucent Indirect Optic (TIO)
The Translucent Indirect Optic (TIO) is composed of a horizontal LED array that has a translucent lens to mask pixilation from the diodes. TIO has a 100° spread in the indirect that is ideal when the fixture is mounted farther away from the ceiling.

Widespread Asymmetric Indirect Optic (WAI2)
The Widespread Asymmetric Indirect Optic (WAI2) offers an upward grazing effect with a 45° forward throw. It softly highlights the ceiling in the up-light while distributing the required illumination of the rest of an interior space. For avoiding glare and enjoying visual comfort, WAI2 is an ideal solution.

High-Efficiency Lambertian Optic (HLO)
The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. HLO has a spacing criterion of 1.10.

Asymmetric Refractive Optic (ARO2)
The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

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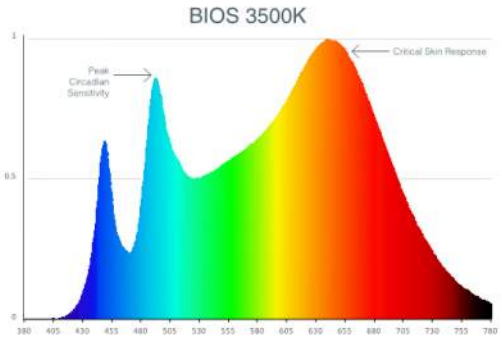
LIGHT SOURCE

Static white
Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K, 4000K, and 5000K with a minimum 80+ CRI and an option for 90+ CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

BIOS
BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being.
The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



Three BIOS solutions are offered: BIOS Biological Static (BIOSST), BIOS Biological Dynamic (BIOSDY), and BIOS Biological Tunable (BIOSTU). See page 8 for details.

LUMINAIRE LENGTH

Via 3 is available in standard lengths of 2' to 12' (up to 8' for MPO). Continuous runs are available for run lengths over 12' (8' for MPO). Exact run length must be noted in the product code. The minimum length is 2' for Direct or Indirect fixtures, and 3' for Direct/Indirect fixtures. Lengths can be ordered in 1' and/or 1" increments. All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277 VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% Eco, eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, ELV, TRIAC, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant. ELV and TRIAC dimming performance (including minimum dimming percentage) subject to dimmer selection.

PoE
Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

Electrical sections
Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.
Code: 2MC-2EC96

Example 2: A 16' Direct/Indirect fixture with separate circuits for direct and indirect, and with one 4' night light section on the direct side on a third circuit.
Code: 3MC-1NL48

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DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Example 3: A 24' Direct fixture with one 4' generator transfer device section.
Code: 1MC-1GTD48

Battery
Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required.
Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

MOUNTING
Pendant fixtures can be mounted either with aircraft cable or with stem. See page 3 for details.

FINISH
Interior: 95%, reflective matte powder coated white paint
Exterior: Matte white, matte black, or aluminum powder coating. Custom finishes are also available.

CONTROLS
Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.
For latest information on sensors, click here.

Standalone controls
An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, sensor location, blank size, and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details.
Three types are available:

OMS: An integral Passive InfraRed (PIR) sensor turns luminaires on and off automatically with field-adjustable time out period. No wall control is used. Coverage pattern for large motion has a 12' diameter with the sensor mounted 8' above the floor; for small motion, the pattern has an 8' diameter. Typically, one sensor is required for every 10' of a continuous luminaire run.

ODS: An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

OCS: Both an occupancy and a daylight sensor are installed in the luminaire.

Connected controls
With connected controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand, and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

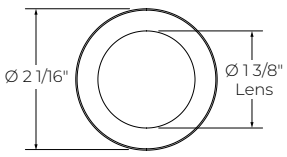
Lumenwerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by Lumenwerx, depending on the control system manufacturer.

Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

To indicate a Lumenwerx luminaire with connected controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact factory to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

AERA MODULE
Compact COB (Chip-On-Board) LED module, available in 2700K, 3000K, 3500K, 4000K, and 5000K with a choice of 80+ CRI or 90+ CRI, with elevated R9 value for 90+ CRI and above. Color consistency is maintained to within 2 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.



Aera 2"

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VIA 3 PENDANT

Lumenwerx

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

CONSTRUCTION

Housing: Extruded aluminum, up to 90% recycled content
Interior brackets: Die-formed cold rolled sheet steel
Joining system: Die-cast zinc
Reflectors: Die-formed cold rolled steel, 95% reflective matte white painted
Lens: Acrylic
Drop lens: Extruded with glued end caps
End caps: Die-cast aluminum
Hanger: Chromed griplock securely attached in end caps and/or joiners with stainless steel hardware
Aircraft cable suspension: Ø 1/16" stainless steel aircraft cable
Stem: Ø 1/2" threaded steel tube

WEIGHT

Direct/Indirect	Direct or Indirect
4': 13.23 lbs - 6.0 kg	**4'**: 11.12 lbs - 5.05 kg
8': 26.48 lbs - 12.0 kg	**8'**: 22.25 lbs - 10.1 kg
12': 39.84 lbs - 18.0 kg	**12'**: 33.48 lbs - 15.2 kg

CERTIFICATIONS

ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.
Declare: LBC Red List Approved

WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

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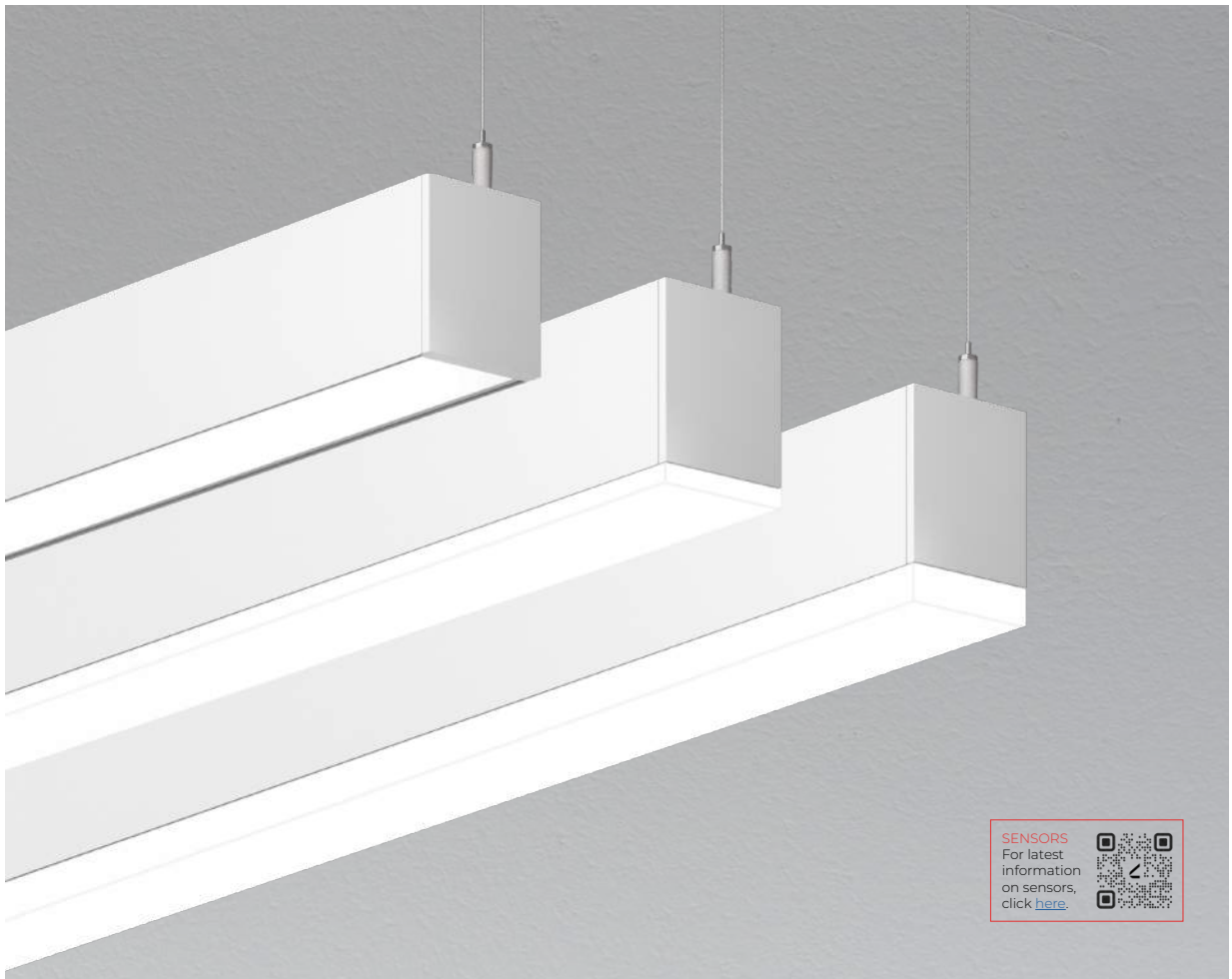
DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Lumenwerx

Declare.

5 YEAR WARRANTY 5



SENSORS
For latest information on sensors, click here.

Module Option

Our elegant, flexible Via family is composed of linear, pendant, surface, recessed, and wall mounted luminaires. Each lighting fixture can be installed as a discrete luminaire or in continuous runs or patterns. Via 3 Pendant is offered with Lambertian, asymmetric, widespread, wall wash, or low-glare optics.

DIRECT

HLO ARO2 WRO2 WDO LGO MPO

INDIRECT

WIO2 TIO WAI2 HLO ARO2

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VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

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Project: _____

Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	DIRECT OPTIC Specify NA for Indirect fixture	LENS POSITION Specify NA for Indirect fixture	INDIRECT OPTIC Specify NA for Direct fixture	LIGHT SOURCE [6]
VIA3P					
VIA3P - Via 3" Pendant	**DI** - Direct/ Indirect **D** - Direct **I** - Indirect	**HLO** - High-Efficiency Lambertian Optic **ARO2** - Asymmetric Refractive Optic **WRO2** - Wall Wash Refractive Optic **WDO** - Widespread Direct Optic **LGO** - Low-Glare Optic **MPO** - Micro-Prismatic Optic **NA** - Not applicable	**FH** [1] - Flush **0.5D** [1] - 0.5" drop **1.0D** [1] - 1.0" drop **NA** [1] - Not applicable [1] - For HLO, specify FH, 0.5D, or 1.0D. - For ARO2, WRO2, WDO, LGO, and MPO, specify FH. - For an Indirect fixture, specify NA.	**WIO2** [2] - Widespread Indirect Optic **TIO** [3] - Translucent Indirect Optic **WAI2** [4] - Widespread Asymmetric Indirect Optic **HLO** [5] - High-Efficiency Lambertian Optic **ARO2** [5] - Asymmetric Refractive Optic **NA** - Not applicable [2] Not available with BIOSTU. [3] Available only with Direct/Indirect. [4] Not available with BIOS. [5] Not available with Direct/Indirect.	**SW** - Static white **BIOSST** [7,8] - BIOS Biological Static **BIOSDY** [7,8] - BIOS Biological Dynamic **BIOSTU** [7,8] - BIOS Biological Tunable [6] Chromawerx SOLA, DUO, and QUADRO also available. Consult other spec sheets [7] Only available with low and medium lumen packages. [8] See page 8 for details.

CRI	DIRECT LUMEN PACKAGE Specify NA for Indirect fixture	INDIRECT LUMEN PACKAGE Specify NA for Direct fixture	COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE
80CRI - 80+ CRI **90CRI** [9] - 90+ CRI [9] Not available with BIOS.	**350LMF** [10] - Hypo output 350 lm/ft **500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** - High output 1000 lm/ft **1200LMF** [11] - Hyper output 1200 lm/ft **NA** - Not applicable [10] Minimum 3' fixture. [11] Fixture will be very bright. Use in suitable applications.	**350LMF** - Hypo output 350 lm/ft **500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** - High output 1000 lm/ft **1200LMF** [11] - Hyper output 1200 lm/ft **NA** - Not applicable	**27K** [12] - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** [12] - 5000K [12] Not available with BIOS.	**#FT#IN** [13] - Specify nominal length (#) in 1' and/or 1" increments **Standard nominal lengths:** Single units: 2' to 12' (up to 8' for MPO) Continuous runs: lengths over 12' (8' for MPO) [13] Minimum 3' for Direct/Indirect.	**120V** - 120V **277V** - 277V **UNV** - 120V-277V **347V** [14] - 347V [14] Available with D1 driver only.

DRIVER [15]	ELECTRICAL	ELECTRICAL SECTIONS (optional) [22,23]	MOUNTING [28]
D1 - 1% 0-10V **DA** [16] - DALI **LDE1** [16] - Lutron Hi-lume 1% Eco **ELD1** - eldoLED 1% ECOdrive 0-10V **ELD0** - eldoLED 0.1% SOLOdrive 0-10V **ELV** [17] - ELV 120V **TRI** [17] - TRIAC 120V [15] PoE (Power-over-Ethernet) compatible. Consult factory for details. [16] On-site commissioning is required. [17] Available with 120V only.	**1C** - 1 circuit **2C** [18] - 2 circuits **#MC** [19] - Multi circuit **EC** - Emergency-powered fixture **NL** - Night light fixture **DL** - Daylight fixture **GTD** [20,21] - Generator transfer device fixture [18] Available for Direct/Indirect only. Separate direct and indirect circuits. [19] Specify total number of circuits (#), including any required for electrical section or module options. Provide drawing or layout specifications. Minimum 4' section per circuit. [20] Minimum 4' fixture. [21] Not available with 347V.	**#EC##** [24] - Emergency-powered section **#NL##** [24] - Night light section **#DL##** [24] - Daylight section **#GTD##** [24,25,26] - Generator transfer device section **#EMB** [26,27] - Emergency battery **NA** - None [22] Specify with multi circuit (#MC) electrical option only. [23] Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. [24] Specify quantity (#), and section length in inches (##). [25] Minimum 4' section. [26] Not available with 347V. [27] Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section. For Direct/Indirect, minimum 8' fixture.	**ACS** - Aircraft cable, standard **STS** - Stem, standard **ACC( )** - Aircraft cable, custom **STC( )** - Stem, custom [28] Standard canopies are black for black fixtures, and white for all other finishes. See page 3 for full details on standard and custom options.

FINISH	CONTROL [29,30]	OPTIONS [36]	MODULE (optional) [38]
W - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	STANDALONE CONTROLS [31,32] Specify the quantity (#) of sensors per fixture. **#OMS** [33] - Onboard Occupancy **#OMS##** [34] - Onboard Occupancy with bi-level dimming **#ODS** - Onboard Daylight **#OCS** - Onboard Occupancy & Daylight CONNECTED CONTROLS [35] **LU** - Lutron **AWNR** - Lutron Athena Wireless Node RF Only **AWNS** - Lutron Athena Wireless Node Sensor **ENC** - Encelium **WL** - Cooper Wavelinx **AN** - Acuity nLight **CA** - Casambi **LG** - Legrand **NA** - None [29] Standalone and connected control options cannot be combined. [30] Available with flush lens option only. [31] Available with D1 driver and 1 circuit options only. [32] Minimum 4' per zone. Provide control zone length. [33] Fixture turns off when no occupancy. [34] Fixture dims to specified light level % (##). [35] Consult factory for connected controls.	**FU120** - Fuse 120V **FU277** - Fuse 277V **CTB9** [37] - T-bar caddy clip, 9/16" **CTB15** [37] - T-bar caddy clip, 15/16" **CTG9** [37] - Tegular caddy clip, 9/16" **CTG15** [37] - Tegular caddy clip, 15/16" **CST** [37] - Screw slot caddy clip **NA** - None [36] Separate codes with a "+" if more than one is specified. [37] Available with aircraft cable only.	**#AE2R( )** - Aera 2" round downlight **NA** - None [38] See page 3 for ordering details.

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VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

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Module Code

For a module, specify the options in the parentheses.
The module is trimless and the light source is static white.
CRI of module matches specification of main fixture.

Example: 1AE2R(7W-10DEG-27K-SDL-FTMW)

MODULE (optional)

MODULE [1,2,3]	WATTAGE	BEAM ANGLE	COLOR TEMP.	LENS AT BAFFLE	BAFFLE FINISH
#AE2R( ) - Aera 2" round downlight [1] Minimum 4' fixture and minimum 2' section per module. Consult factory for other configurations. [2] Specify quantity (#). [3] 6" blank per module. Blank finish will match fixture finish.	**7W** - 7 W output, up to 714 lm **10W** - 10 W output, up to 961 lm	**10DEG** - 10° very narrow spot **15DEG** - 15° Narrow spot **25DEG** - 25° Spot **35DEG** - 35° Narrow flood **50DEG** - 50° Wide flood	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K	**SDL** - Soft diffused lens, solite **FDL** - Frosted diffused lens **CL** - Clear lens	**FTMW** - Matte white **FTMB** - Matte black **FSPC** - Satin silver **FSSPC** - Matte silver **FCHP** - Champagne **FDBZ** - Dark bronze **CF#** - Custom finish, specify RAL#

Pendant Mounting Code

Standard

For a standard mounting, please refer to the information below.

MOUNTING

ACS - Aircraft cable, standard	**STS** - Stem, standard
• Ø 5" for power canopy • Ø 3" for non-power canopy • Canopies are black for black fixtures, and white for all other fixture finishes • Power cord is black for black fixtures, and white for all other fixture finishes • Aircraft cable length is 36"	• Ø 5" for power canopy • Ø 5" for non-power canopy • Canopies are black for black fixtures, and white for all other fixture finishes • Stem finish is the same color as fixture • Stem length is 18" • Stem is not field adjustable

Custom

Aircraft Cable

For a custom mounting, specify the options in the parentheses.

Example: ACC(3NPC-72IN-W-PCB-NA)

MOUNTING

ACC( )

	NON-POWER CANOPY SIZE	AIRCRAFT CABLE LENGTH	CANOPY FINISH	POWER CORD COLOR	OPTION
ACC	**3NPC** - Ø 3" non-power canopy **5NPC** - Ø 5" non-power canopy	**36IN** - 36" **72IN** - 72" **120IN** - 120" **#IN** [1] - Other lengths, specify in inches [1] Maximum length is 288". For longer lengths, please consult factory.	**W** - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	**PCW** - White **PCB** - Black	**SEM** [2] - Seismic mounting **SLC** [2] - Sloped ceiling for aircraft cable **NA** - None [2] Not available with the Ø 3" non-power canopy size.

Stem

For a custom mounting, specify the options in the parentheses.

Example: STC(5NPC-36IN-W-STW-SLS)

MOUNTING

STC( )

	NON-POWER CANOPY SIZE	STEM LENGTH	CANOPY FINISH	STEM COLOR	OPTION
STC	**5NPC** - Ø 5" non-power canopy	**18IN** - 18" **36IN** - 36" **#IN** [3] - Specify length in inches [3] Minimum length is 6". Maximum length is 72". Stem is not field adjustable.	**W** - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	**STW** - Matte white **STAL** - Aluminum **STB** - Matte black **STCF#** - Custom finish, specify RAL#	**SLS** - Sloped ceiling for stem **NA** - None

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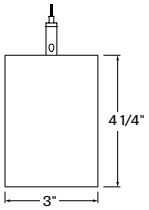
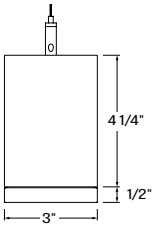
DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Dimensions

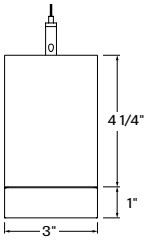
Flush Lens



0.5" Drop Lens [1]



1.0" Drop Lens [1]



[1] Drop lens positions available with HLO direct lens only.

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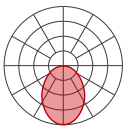
DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Photometrics

Values calculated based on a 4' fixture at 3500K for all optics.

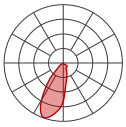
DIRECT OPTICS

HLO (Flush lens)



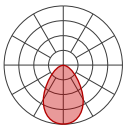
LM/FT	W/FT	LM/W
350	2.8	125
500	4.1	123
750	6.3	119
1000	8.6	116
1200	10.6	113

WRO2



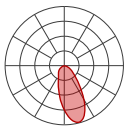
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	112
750	7.0	107
1000	9.8	102
1200	12.1	99

LGO



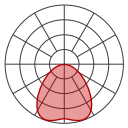
LM/FT	W/FT	LM/W
350	3.2	108
500	4.7	106
750	7.3	102
1000	10.2	98
1200	12.5	96

ARO2



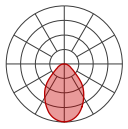
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	113
750	7.0	107
1000	9.7	103
1200	12.1	99

WDO



LM/FT	W/FT	LM/W
350	3.0	118
500	4.3	116
750	6.7	113
1000	9.2	109
1200	11.3	106

MPO



LM/FT	W/FT	LM/W
350	3.1	112
500	4.5	112
750	6.8	111
1000	9.5	105
1200	12.0	100

MULTIPLIER TABLES

Use these tables to get results for different color temperatures and drop lenses for all photometric tables.

Multiplier - CCT/CRI

CCT	WATTS 80+ CRI / 90+ CRI	LPW 80+ CRI / 90+ CRI
2700K	1.05	0.95
3000K	1.02	0.98
3500K	1.00	1.00
4000K	1.00	1.00
5000K	0.96	1.04

Multiplier - Drop lens

DIRECT LENS	WATTS	LPW
Flush lens	1.00	1.00
Drop lens 0.5"	0.98	1.02
Drop lens 1.0"	0.96	1.04

DIRECT/INDIRECT - LPW CALCULATION

For Direct/Indirect performance values, follow the formula.

$$\frac{\left(\text{DIRECT LM/FT} + \text{INDIRECT LM/FT}\right)}{\left(\text{DIRECT W/FT} + \text{INDIRECT W/FT}\right)} = \text{LPW}$$

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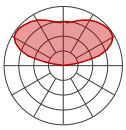
STATIC WHITE, BIOS

Photometrics

Values calculated based on a 4' fixture at 3500K for all optics.

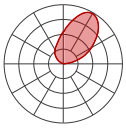
INDIRECT OPTICS

WIO2



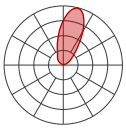
LM/FT	W/FT	LM/W
350	2.4	146
500	3.5	142
750	5.5	137
1000	7.6	132
1200	9.4	128

WAI2



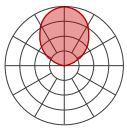
LM/FT	W/FT	LM/W
350	2.5	139
500	3.7	135
750	5.8	130
1000	8.0	125
1200	10.0	120

ARO2



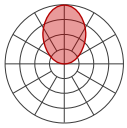
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	113
750	7.0	107
1000	9.7	103
1200	12.1	99

TIO



LM/FT	W/FT	LM/W
350	2.7	127
500	4.0	124
750	6.3	119
1000	8.8	114
1200	10.9	110

HLO



LM/FT	W/FT	LM/W
350	2.8	125
500	4.1	123
750	6.3	119
1000	8.6	116
1200	10.6	113

MULTIPLIER TABLES

Use this table to get results for different color temperatures for all photometric tables.

Multiplier - CCT/CRI

CCT	WATTS 80+ CRI / 90+ CRI	LPW 80+ CRI / 90+ CRI
2700K	1.05	0.95
3000K	1.02	0.98
3500K	1.00	1.00
4000K	1.00	1.00
5000K	0.96	1.04

DIRECT/INDIRECT - LPW CALCULATION

For Direct/Indirect performance values, follow the formula.

$$\frac{\left(\text{DIRECT LM/FT} + \text{INDIRECT LM/FT}\right)}{\left(\text{DIRECT W/FT} + \text{INDIRECT W/FT}\right)} = \text{LPW}$$

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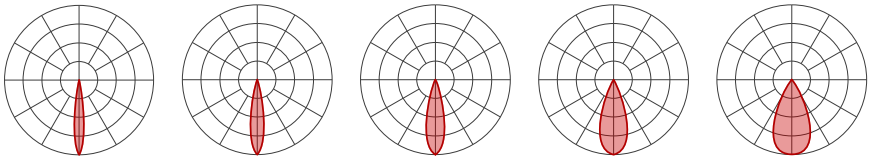
DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

AERA 2" MODULE

Values calculated based on 3500K and SDL lens option.



10° 15° 25° 35° 50°

Delivered lumens

CRI	80+ CRI					90+ CRI				
BEAM	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°
7 W	589	654	714	705	676	550	611	667	659	632
10 W	792	880	961	949	910	740	822	898	887	850

Efficacy

CRI	80+ CRI					90+ CRI				
BEAM	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°
7 W	84	93	102	101	97	79	87	95	94	90
10 W	79	88	96	95	91	74	82	90	89	85

Please follow the multiplier tables to ensure correct lumen value. CCT and lensing will change the lumen value.

CCT	
2700K	0.94
3000K	0.98
3500K	1
4000K	1.05
5000K	1.05

LENS AT BAFFLE	
SDL - Soft diffused lens, Solite	1
FDL - Frosted lens	0.8
CL - Clear lens	1.1

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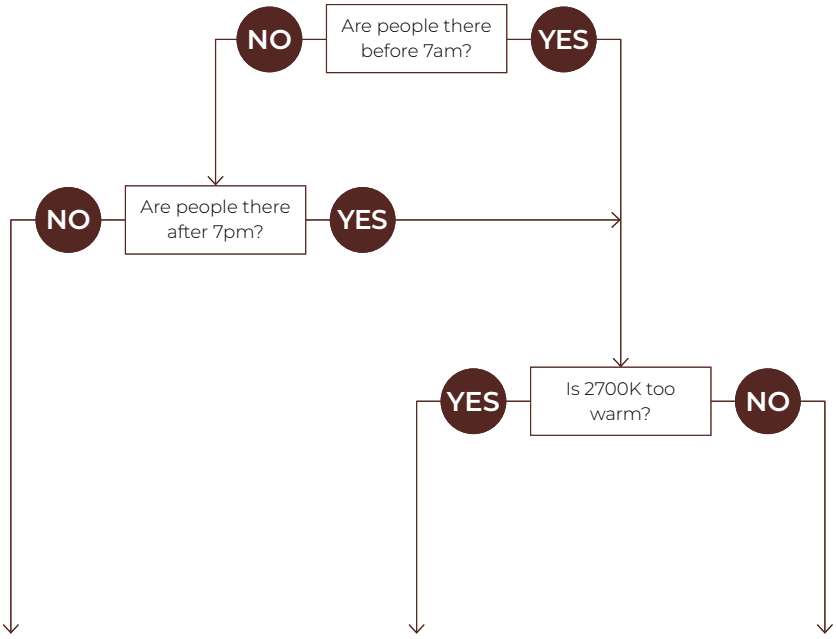
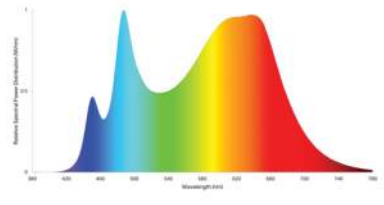
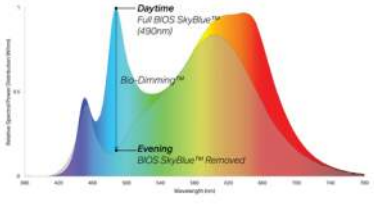
STATIC WHITE, BIOS

BIOS

Three BIOS Circadian LED solutions are offered – Biological Static, Biological Dynamic, and Biological Tunable.
Use the decision tree below to identify when and where to use BIOS Wellness LED Lighting Solutions.



Biological Static BIOSST	Biological Dynamic BIOSDY	Biological Tunable BIOSTU
No CCT change when dimmed	500K shift when dimmed	Dims to 2700K
Daytime solution	Daytime + evening solution	Daytime + evening solution
Spaces in operation during daytime hours, between 7am and 7pm	Spaces in operation overnight, after 7pm and before 7am, and when CCT color shift in the evening is not preferred	Suitable for spaces in operation overnight, after 7pm and before 7am, and where people do not sleep (CCT color shift in the evening is preferred)
E.g. offices, medical/dental offices	E.g. hospitals	E.g. offices, shiftwork
		

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VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

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Technical Specifications

DIRECT OPTICS

High-Efficiency Lambertian Optic (HLO)
The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. Available as a flush lens or as a drop lens, the HLO has a spacing criterion of 1.10.

Asymmetric Refractive Optic (ARO2)
The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

Wall Wash Refractive Optic (WRO2)
The Wall Wash Refractive Optic (WRO2) delivers smooth vertical illumination with a gentle gradient and soft visual cut-off. Its exacting configuration creates a strong downward light component without shadows or hot spots and provides light distribution with peak intensity at 21° above nadir. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

Widespread Direct Optic (WDO)
The Widespread Direct Optic (WDO) is designed to distribute light far and wide. As such, it has an excellent luminous efficacy, a light span that is 40% farther than that of our traditional HLO, and it maximizes spacing distance while still creating a sense of uniformity. The lens snaps into place and utilizes nano prismatic optics to mask the diodes that are actually emitting the light.

Low-Glare Optic (LGO)
The Low-Glare Optic (LGO) is designed to cut off high-angled light and control glare. The carefully crafted lens refracts light downward through its center from which it then disperses into a wide conical distribution that negates any illumination at about 40°. The LGO provides the visual comfort of a louver in a smooth acrylic lens.

Micro-Prismatic Optic (MPO)
The Micro-Prismatic Optic (MPO) delivers high-efficiency, low-glare illumination with UGR <17. Its precision-engineered lens, composed of thousands of tiny prisms, diffuses light to reduce glare, producing a ceiling plane that reads smooth from a distance while revealing subtle texture up close. The result is balanced, efficient illumination with a refined architectural presence.

INDIRECT OPTICS

Widespread Indirect Optic (WIO2)
The Widespread Indirect Optic (WIO2) is a horizontal LED array with a widespread indirect micro prismatic optic that offers an impressive 160° spread. WIO2 creates an even illumination for smooth brightness on the ceiling that can achieve uniformity ratios of up to 2:1.

Uniformity [max/min]
Based on 18' continuous runs, in a 20' x 40' room, 10' wall height

Mounting height from ceiling	Spacing (Center to center)		
	8'	10'	12'
12"	5.5	10.0	9.0
18"	3.5	6.0	6.0
24"	2.5	4.0	4.5

Translucent Indirect Optic (TIO)
The Translucent Indirect Optic (TIO) is composed of a horizontal LED array that has a translucent lens to mask pixilation from the diodes. TIO has a 100° spread in the indirect that is ideal when the fixture is mounted farther away from the ceiling.

Widespread Asymmetric Indirect Optic (WAI2)
The Widespread Asymmetric Indirect Optic (WAI2) offers an upward grazing effect with a 45° forward throw. It softly highlights the ceiling in the up-light while distributing the required illumination of the rest of an interior space. For avoiding glare and enjoying visual comfort, WAI2 is an ideal solution.

High-Efficiency Lambertian Optic (HLO)
The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. HLO has a spacing criterion of 1.10.

Asymmetric Refractive Optic (ARO2)
The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

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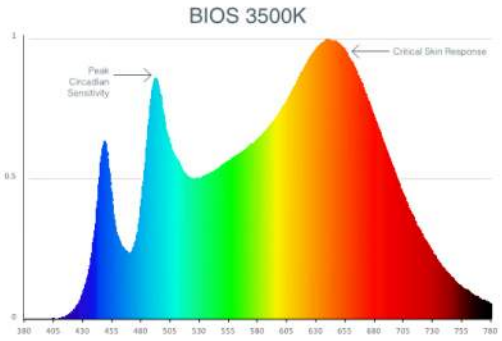
LIGHT SOURCE

Static white
Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K, 4000K, and 5000K with a minimum 80+ CRI and an option for 90+ CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

BIOS
BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being.
The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



Three BIOS solutions are offered: BIOS Biological Static (BIOSST), BIOS Biological Dynamic (BIOSDY), and BIOS Biological Tunable (BIOSTU). See page 8 for details.

LUMINAIRE LENGTH

Via 3 is available in standard lengths of 2' to 12' (up to 8' for MPO). Continuous runs are available for run lengths over 12' (8' for MPO). Exact run length must be noted in the product code. The minimum length is 2' for Direct or Indirect fixtures, and 3' for Direct/Indirect fixtures. Lengths can be ordered in 1' and/or 1" increments. All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277 VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% Eco, eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, ELV, TRIAC, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant. ELV and TRIAC dimming performance (including minimum dimming percentage) subject to dimmer selection.

PoE
Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

Electrical sections
Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.
Code: 2MC-2EC96

Example 2: A 16' Direct/Indirect fixture with separate circuits for direct and indirect, and with one 4' night light section on the direct side on a third circuit.
Code: 3MC-1NL48

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VIA 3 PENDANT

Lumenwerx

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Example 3: A 24' Direct fixture with one 4' generator transfer device section.
Code: 1MC-1GTD48

Battery
Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required.
Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

MOUNTING
Pendant fixtures can be mounted either with aircraft cable or with stem. See page 3 for details.

FINISH
Interior: 95%, reflective matte powder coated white paint
Exterior: Matte white, matte black, or aluminum powder coating. Custom finishes are also available.

CONTROLS
Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.
For latest information on sensors, click here.

Standalone controls
An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, sensor location, blank size, and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details.
Three types are available:

OMS: An integral Passive InfraRed (PIR) sensor turns luminaires on and off automatically with field-adjustable time out period. No wall control is used. Coverage pattern for large motion has a 12' diameter with the sensor mounted 8' above the floor; for small motion, the pattern has an 8' diameter. Typically, one sensor is required for every 10' of a continuous luminaire run.

ODS: An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

OCS: Both an occupancy and a daylight sensor are installed in the luminaire.

Connected controls
With connected controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand, and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

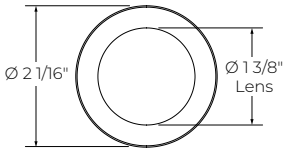
Lumenwerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by Lumenwerx, depending on the control system manufacturer.

Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

To indicate a Lumenwerx luminaire with connected controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact factory to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

AERA MODULE
Compact COB (Chip-On-Board) LED module, available in 2700K, 3000K, 3500K, 4000K, and 5000K with a choice of 80+ CRI or 90+ CRI, with elevated R9 value for 90+ CRI and above. Color consistency is maintained to within 2 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.



Aera 2"

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VIA 3 PENDANT

Lumenwerx

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

CONSTRUCTION

Housing: Extruded aluminum, up to 90% recycled content
Interior brackets: Die-formed cold rolled sheet steel
Joining system: Die-cast zinc
Reflectors: Die-formed cold rolled steel, 95% reflective matte white painted
Lens: Acrylic
Drop lens: Extruded with glued end caps
End caps: Die-cast aluminum
Hanger: Chromed griplock securely attached in end caps and/or joiners with stainless steel hardware
Aircraft cable suspension: Ø 1/16" stainless steel aircraft cable
Stem: Ø 1/2" threaded steel tube

WEIGHT

Direct/Indirect	Direct or Indirect
4': 13.23 lbs - 6.0 kg	**4'**: 11.12 lbs - 5.05 kg
8': 26.48 lbs - 12.0 kg	**8'**: 22.25 lbs - 10.1 kg
12': 39.84 lbs - 18.0 kg	**12'**: 33.48 lbs - 15.2 kg

CERTIFICATIONS

ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.
Declare: LBC Red List Approved

WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

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INTERFACE ENGINEERING

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DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

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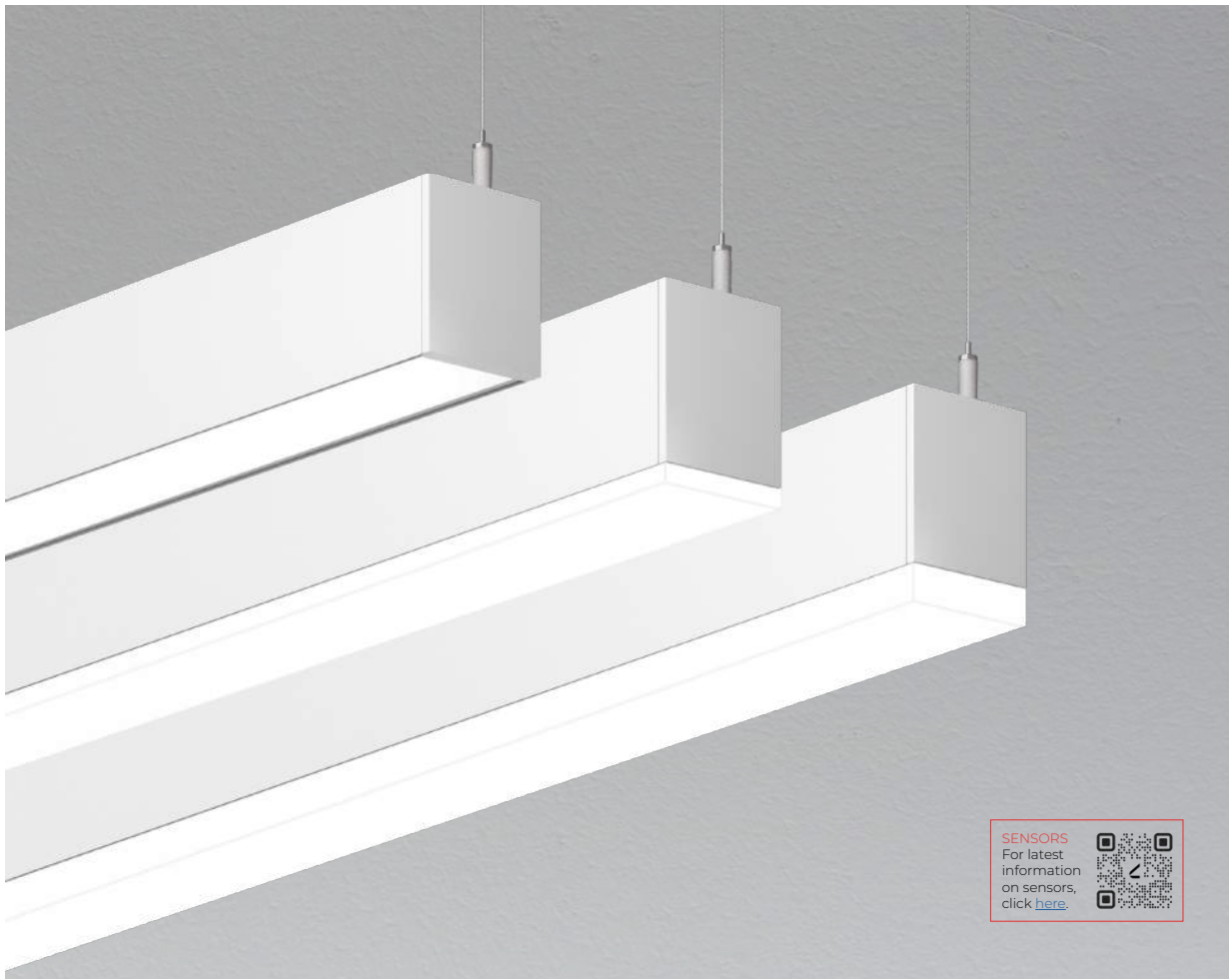
Declare.

5 YEAR WARRANTY 5



SENSORS
For latest information on sensors, click here.

Module Option

Our elegant, flexible Via family is composed of linear, pendant, surface, recessed, and wall mounted luminaires. Each lighting fixture can be installed as a discrete luminaire or in continuous runs or patterns. Via 3 Pendant is offered with Lambertian, asymmetric, widespread, wall wash, or low-glare optics.

DIRECT

HLO ARO2 WRO2 WDO LGO MPO

INDIRECT

WIO2 TIO WAI2 HLO ARO2

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VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Lumenwerx

Project: _____

Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	DIRECT OPTIC Specify NA for Indirect fixture	LENS POSITION Specify NA for Indirect fixture	INDIRECT OPTIC Specify NA for Direct fixture	LIGHT SOURCE [6]
VIA3P					
VIA3P - Via 3" Pendant	**DI** - Direct/ Indirect **D** - Direct **I** - Indirect	**HLO** - High-Efficiency Lambertian Optic **ARO2** - Asymmetric Refractive Optic **WRO2** - Wall Wash Refractive Optic **WDO** - Widespread Direct Optic **LGO** - Low-Glare Optic **MPO** - Micro-Prismatic Optic **NA** - Not applicable	**FH** [1] - Flush **0.5D** [1] - 0.5" drop **1.0D** [1] - 1.0" drop **NA** [1] - Not applicable [1] - For HLO, specify FH, 0.5D, or 1.0D. - For ARO2, WRO2, WDO, LGO, and MPO, specify FH. - For an Indirect fixture, specify NA.	**WIO2** [2] - Widespread Indirect Optic **TIO** [3] - Translucent Indirect Optic **WAI2** [4] - Widespread Asymmetric Indirect Optic **HLO** [5] - High-Efficiency Lambertian Optic **ARO2** [5] - Asymmetric Refractive Optic **NA** - Not applicable [2] Not available with BIOSTU. [3] Available only with Direct/Indirect. [4] Not available with BIOS. [5] Not available with Direct/Indirect.	**SW** - Static white **BIOSST** [7,8] - BIOS Biological Static **BIOSDY** [7,8] - BIOS Biological Dynamic **BIOSTU** [7,8] - BIOS Biological Tunable [6] Chromawerx SOLA, DUO, and QUADRO also available. Consult other spec sheets [7] Only available with low and medium lumen packages. [8] See page 8 for details.

CRI	DIRECT LUMEN PACKAGE Specify NA for Indirect fixture	INDIRECT LUMEN PACKAGE Specify NA for Direct fixture	COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE
80CRI - 80+ CRI **90CRI** [9] - 90+ CRI [9] Not available with BIOS.	**350LMF** [10] - Hypo output 350 lm/ft **500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** - High output 1000 lm/ft **1200LMF** [11] - Hyper output 1200 lm/ft **NA** - Not applicable [10] Minimum 3' fixture. [11] Fixture will be very bright. Use in suitable applications.	**350LMF** - Hypo output 350 lm/ft **500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** - High output 1000 lm/ft **1200LMF** [11] - Hyper output 1200 lm/ft **NA** - Not applicable	**27K** [12] - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** [12] - 5000K [12] Not available with BIOS.	**#FT#IN** [13] - Specify nominal length (#) in 1' and/or 1" increments **Standard nominal lengths:** Single units: 2' to 12' (up to 8' for MPO) Continuous runs: lengths over 12' (8' for MPO) [13] Minimum 3' for Direct/Indirect.	**120V** - 120V **277V** - 277V **UNV** - 120V-277V **347V** [14] - 347V [14] Available with D1 driver only.

DRIVER [15]	ELECTRICAL	ELECTRICAL SECTIONS (optional) [22,23]	MOUNTING [28]
D1 - 1% 0-10V **DA** [16] - DALI **LDE1** [16] - Lutron Hi-lume 1% Eco **ELD1** - eldoLED 1% ECOdrive 0-10V **ELD0** - eldoLED 0.1% SOLOdrive 0-10V **ELV** [17] - ELV 120V **TRI** [17] - TRIAC 120V [15] PoE (Power-over-Ethernet) compatible. Consult factory for details. [16] On-site commissioning is required. [17] Available with 120V only.	**1C** - 1 circuit **2C** [18] - 2 circuits **#MC** [19] - Multi circuit **EC** - Emergency-powered fixture **NL** - Night light fixture **DL** - Daylight fixture **GTD** [20,21] - Generator transfer device fixture [18] Available for Direct/Indirect only. Separate direct and indirect circuits. [19] Specify total number of circuits (#), including any required for electrical section or module options. Provide drawing or layout specifications. Minimum 4' section per circuit. [20] Minimum 4' fixture. [21] Not available with 347V.	**#EC##** [24] - Emergency-powered section **#NL##** [24] - Night light section **#DL##** [24] - Daylight section **#GTD##** [24,25,26] - Generator transfer device section **#EMB** [26,27] - Emergency battery **NA** - None [22] Specify with multi circuit (#MC) electrical option only. [23] Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. [24] Specify quantity (#), and section length in inches (##). [25] Minimum 4' section. [26] Not available with 347V. [27] Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section. For Direct/Indirect, minimum 8' fixture.	**ACS** - Aircraft cable, standard **STS** - Stem, standard **ACC( )** - Aircraft cable, custom **STC( )** - Stem, custom [28] Standard canopies are black for black fixtures, and white for all other finishes. See page 3 for full details on standard and custom options.

FINISH	CONTROL [29,30]	OPTIONS [36]	MODULE (optional) [38]
W - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	STANDALONE CONTROLS [31,32] Specify the quantity (#) of sensors per fixture. **#OMS** [33] - Onboard Occupancy **#OMS##** [34] - Onboard Occupancy with bi-level dimming **#ODS** - Onboard Daylight **#OCS** - Onboard Occupancy & Daylight CONNECTED CONTROLS [35] **LU** - Lutron **AWNR** - Lutron Athena Wireless Node RF Only **AWNS** - Lutron Athena Wireless Node Sensor **ENC** - Encelium **WL** - Cooper Wavelinx **AN** - Acuity nLight **CA** - Casambi **LG** - Legrand **NA** - None [29] Standalone and connected control options cannot be combined. [30] Available with flush lens option only. [31] Available with D1 driver and 1 circuit options only. [32] Minimum 4' per zone. Provide control zone length. [33] Fixture turns off when no occupancy. [34] Fixture dims to specified light level % (##). [35] Consult factory for connected controls.	**FU120** - Fuse 120V **FU277** - Fuse 277V **CTB9** [37] - T-bar caddy clip, 9/16" **CTB15** [37] - T-bar caddy clip, 15/16" **CTG9** [37] - Tegular caddy clip, 9/16" **CTG15** [37] - Tegular caddy clip, 15/16" **CST** [37] - Screw slot caddy clip **NA** - None [36] Separate codes with a "+" if more than one is specified. [37] Available with aircraft cable only.	**#AE2R( )** - Aera 2" round downlight **NA** - None [38] See page 3 for ordering details.

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VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

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Module Code

For a module, specify the options in the parentheses.
The module is trimless and the light source is static white.
CRI of module matches specification of main fixture.

Example: 1AE2R(7W-10DEG-27K-SDL-FTMW)

MODULE (optional)

MODULE [1,2,3]	WATTAGE	BEAM ANGLE	COLOR TEMP.	LENS AT BAFFLE	BAFFLE FINISH
#AE2R( ) - Aera 2" round downlight [1] Minimum 4' fixture and minimum 2' section per module. Consult factory for other configurations. [2] Specify quantity (#). [3] 6" blank per module. Blank finish will match fixture finish.	**7W** - 7 W output, up to 714 lm **10W** - 10 W output, up to 961 lm	**10DEG** - 10° very narrow spot **15DEG** - 15° Narrow spot **25DEG** - 25° Spot **35DEG** - 35° Narrow flood **50DEG** - 50° Wide flood	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K	**SDL** - Soft diffused lens, solite **FDL** - Frosted diffused lens **CL** - Clear lens	**FTMW** - Matte white **FTMB** - Matte black **FSPC** - Satin silver **FSSPC** - Matte silver **FCHP** - Champagne **FDBZ** - Dark bronze **CF#** - Custom finish, specify RAL#

Pendant Mounting Code

Standard

For a standard mounting, please refer to the information below.

MOUNTING

ACS - Aircraft cable, standard	**STS** - Stem, standard
• Ø 5" for power canopy • Ø 3" for non-power canopy • Canopies are black for black fixtures, and white for all other fixture finishes • Power cord is black for black fixtures, and white for all other fixture finishes • Aircraft cable length is 36"	• Ø 5" for power canopy • Ø 5" for non-power canopy • Canopies are black for black fixtures, and white for all other fixture finishes • Stem finish is the same color as fixture • Stem length is 18" • Stem is not field adjustable

Custom

Aircraft Cable

For a custom mounting, specify the options in the parentheses.

Example: ACC(3NPC-72IN-W-PCB-NA)

MOUNTING

ACC( )

	NON-POWER CANOPY SIZE	AIRCRAFT CABLE LENGTH	CANOPY FINISH	POWER CORD COLOR	OPTION
ACC	**3NPC** - Ø 3" non-power canopy **5NPC** - Ø 5" non-power canopy	**36IN** - 36" **72IN** - 72" **120IN** - 120" **#IN** [1] - Other lengths, specify in inches [1] Maximum length is 288". For longer lengths, please consult factory.	**W** - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	**PCW** - White **PCB** - Black	**SEM** [2] - Seismic mounting **SLC** [2] - Sloped ceiling for aircraft cable **NA** - None [2] Not available with the Ø 3" non-power canopy size.

Stem

For a custom mounting, specify the options in the parentheses.

Example: STC(5NPC-36IN-W-STW-SLS)

MOUNTING

STC( )

	NON-POWER CANOPY SIZE	STEM LENGTH	CANOPY FINISH	STEM COLOR	OPTION
STC	**5NPC** - Ø 5" non-power canopy	**18IN** - 18" **36IN** - 36" **#IN** [3] - Specify length in inches [3] Minimum length is 6". Maximum length is 72". Stem is not field adjustable.	**W** - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	**STW** - Matte white **STAL** - Aluminum **STB** - Matte black **STCF#** - Custom finish, specify RAL#	**SLS** - Sloped ceiling for stem **NA** - None

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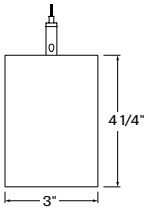
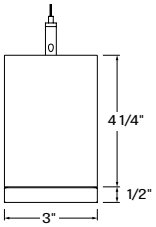
DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Dimensions

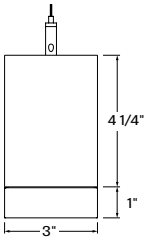
Flush Lens



0.5" Drop Lens [1]



1.0" Drop Lens [1]



[1] Drop lens positions available with HLO direct lens only.

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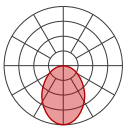
DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Photometrics

Values calculated based on a 4' fixture at 3500K for all optics.

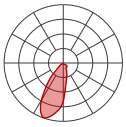
DIRECT OPTICS

HLO (Flush lens)



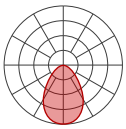
LM/FT	W/FT	LM/W
350	2.8	125
500	4.1	123
750	6.3	119
1000	8.6	116
1200	10.6	113

WRO2



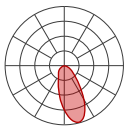
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	112
750	7.0	107
1000	9.8	102
1200	12.1	99

LGO



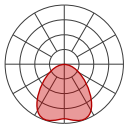
LM/FT	W/FT	LM/W
350	3.2	108
500	4.7	106
750	7.3	102
1000	10.2	98
1200	12.5	96

ARO2



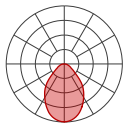
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	113
750	7.0	107
1000	9.7	103
1200	12.1	99

WDO



LM/FT	W/FT	LM/W
350	3.0	118
500	4.3	116
750	6.7	113
1000	9.2	109
1200	11.3	106

MPO



LM/FT	W/FT	LM/W
350	3.1	112
500	4.5	112
750	6.8	111
1000	9.5	105
1200	12.0	100

MULTIPLIER TABLES

Use these tables to get results for different color temperatures and drop lenses for all photometric tables.

Multiplier - CCT/CRI

CCT	WATTS 80+ CRI / 90+ CRI	LPW 80+ CRI / 90+ CRI
2700K	1.05	0.95
3000K	1.02	0.98
3500K	1.00	1.00
4000K	1.00	1.00
5000K	0.96	1.04

Multiplier - Drop lens

DIRECT LENS	WATTS	LPW
Flush lens	1.00	1.00
Drop lens 0.5"	0.98	1.02
Drop lens 1.0"	0.96	1.04

DIRECT/INDIRECT - LPW CALCULATION

For Direct/Indirect performance values, follow the formula.

$$\frac{\left(\text{DIRECT LM/FT} + \text{INDIRECT LM/FT}\right)}{\left(\text{DIRECT W/FT} + \text{INDIRECT W/FT}\right)} = \text{LPW}$$

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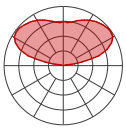
DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Photometrics

Values calculated based on a 4' fixture at 3500K for all optics.

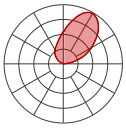
INDIRECT OPTICS

WIO2



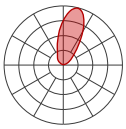
LM/FT	W/FT	LM/W
350	2.4	146
500	3.5	142
750	5.5	137
1000	7.6	132
1200	9.4	128

WAI2



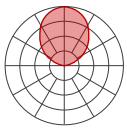
LM/FT	W/FT	LM/W
350	2.5	139
500	3.7	135
750	5.8	130
1000	8.0	125
1200	10.0	120

ARO2



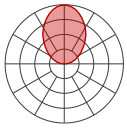
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	113
750	7.0	107
1000	9.7	103
1200	12.1	99

TIO



LM/FT	W/FT	LM/W
350	2.7	127
500	4.0	124
750	6.3	119
1000	8.8	114
1200	10.9	110

HLO



LM/FT	W/FT	LM/W
350	2.8	125
500	4.1	123
750	6.3	119
1000	8.6	116
1200	10.6	113

MULTIPLIER TABLES

Use this table to get results for different color temperatures for all photometric tables.

Multiplier - CCT/CRI

CCT	WATTS 80+ CRI / 90+ CRI	LPW 80+ CRI / 90+ CRI
2700K	1.05	0.95
3000K	1.02	0.98
3500K	1.00	1.00
4000K	1.00	1.00
5000K	0.96	1.04

DIRECT/INDIRECT - LPW CALCULATION

For Direct/Indirect performance values, follow the formula.

$$\frac{\left(\text{DIRECT LM/FT} + \text{INDIRECT LM/FT}\right)}{\left(\text{DIRECT W/FT} + \text{INDIRECT W/FT}\right)} = \text{LPW}$$

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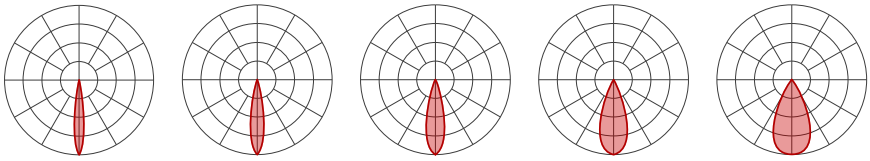
STATIC WHITE, BIOS

AERA 2" MODULE

Values calculated based on 3500K and SDL lens option.



10° 15° 25° 35° 50°

Delivered lumens

CRI	80+ CRI					90+ CRI				
BEAM	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°
7 W	589	654	714	705	676	550	611	667	659	632
10 W	792	880	961	949	910	740	822	898	887	850

Efficacy

CRI	80+ CRI					90+ CRI				
BEAM	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°
7 W	84	93	102	101	97	79	87	95	94	90
10 W	79	88	96	95	91	74	82	90	89	85

Please follow the multiplier tables to ensure correct lumen value. CCT and lensing will change the lumen value.

CCT	
2700K	0.94
3000K	0.98
3500K	1
4000K	1.05
5000K	1.05

LENS AT BAFFLE	
SDL - Soft diffused lens, Solite	1
FDL - Frosted lens	0.8
CL - Clear lens	1.1

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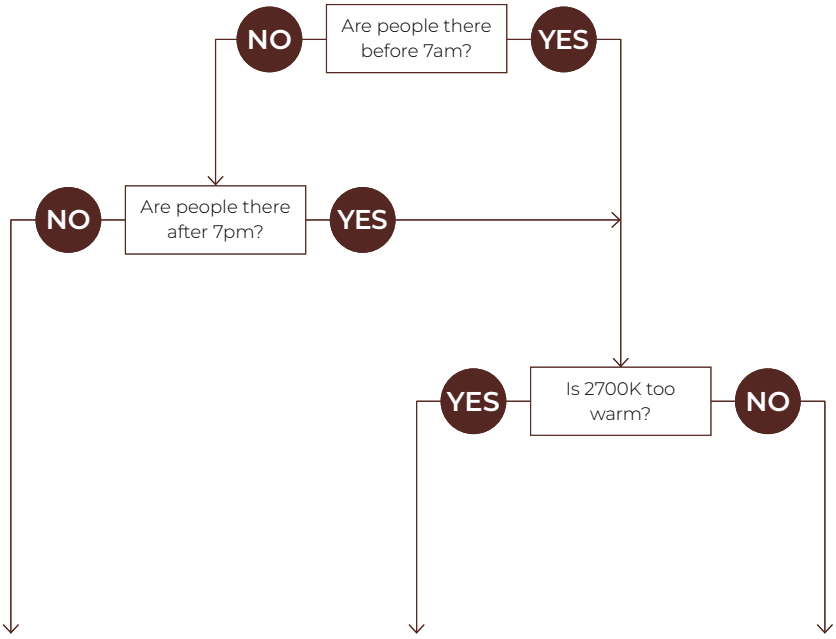
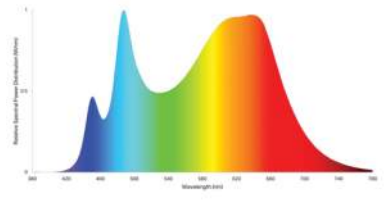
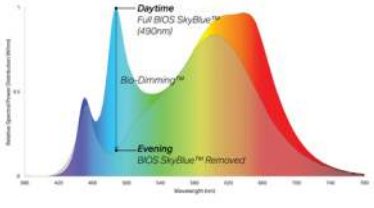
STATIC WHITE, BIOS

BIOS

Three BIOS Circadian LED solutions are offered – Biological Static, Biological Dynamic, and Biological Tunable.
Use the decision tree below to identify when and where to use BIOS Wellness LED Lighting Solutions.



Biological Static BIOSST	Biological Dynamic BIOSDY	Biological Tunable BIOSTU
No CCT change when dimmed	500K shift when dimmed	Dims to 2700K
Daytime solution	Daytime + evening solution	Daytime + evening solution
Spaces in operation during daytime hours, between 7am and 7pm	Spaces in operation overnight, after 7pm and before 7am, and when CCT color shift in the evening is not preferred	Suitable for spaces in operation overnight, after 7pm and before 7am, and where people do not sleep (CCT color shift in the evening is preferred)
E.g. offices, medical/dental offices	E.g. hospitals	E.g. offices, shiftwork
		

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Technical Specifications

DIRECT OPTICS

High-Efficiency Lambertian Optic (HLO)
The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. Available as a flush lens or as a drop lens, the HLO has a spacing criterion of 1.10.

Asymmetric Refractive Optic (ARO2)
The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

Wall Wash Refractive Optic (WRO2)
The Wall Wash Refractive Optic (WRO2) delivers smooth vertical illumination with a gentle gradient and soft visual cut-off. Its exacting configuration creates a strong downward light component without shadows or hot spots and provides light distribution with peak intensity at 21° above nadir. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

Widespread Direct Optic (WDO)
The Widespread Direct Optic (WDO) is designed to distribute light far and wide. As such, it has an excellent luminous efficacy, a light span that is 40% farther than that of our traditional HLO, and it maximizes spacing distance while still creating a sense of uniformity. The lens snaps into place and utilizes nano prismatic optics to mask the diodes that are actually emitting the light.

Low-Glare Optic (LGO)
The Low-Glare Optic (LGO) is designed to cut off high-angled light and control glare. The carefully crafted lens refracts light downward through its center from which it then disperses into a wide conical distribution that negates any illumination at about 40°. The LGO provides the visual comfort of a louver in a smooth acrylic lens.

Micro-Prismatic Optic (MPO)
The Micro-Prismatic Optic (MPO) delivers high-efficiency, low-glare illumination with UGR <17. Its precision-engineered lens, composed of thousands of tiny prisms, diffuses light to reduce glare, producing a ceiling plane that reads smooth from a distance while revealing subtle texture up close. The result is balanced, efficient illumination with a refined architectural presence.

INDIRECT OPTICS

Widespread Indirect Optic (WIO2)
The Widespread Indirect Optic (WIO2) is a horizontal LED array with a widespread indirect micro prismatic optic that offers an impressive 160° spread. WIO2 creates an even illumination for smooth brightness on the ceiling that can achieve uniformity ratios of up to 2:1.

Uniformity [max/min]
Based on 18' continuous runs, in a 20' x 40' room, 10' wall height

Mounting height from ceiling	Spacing (Center to center)		
	8'	10'	12'
12"	5.5	10.0	9.0
18"	3.5	6.0	6.0
24"	2.5	4.0	4.5

Translucent Indirect Optic (TIO)
The Translucent Indirect Optic (TIO) is composed of a horizontal LED array that has a translucent lens to mask pixilation from the diodes. TIO has a 100° spread in the indirect that is ideal when the fixture is mounted farther away from the ceiling.

Widespread Asymmetric Indirect Optic (WAI2)
The Widespread Asymmetric Indirect Optic (WAI2) offers an upward grazing effect with a 45° forward throw. It softly highlights the ceiling in the up-light while distributing the required illumination of the rest of an interior space. For avoiding glare and enjoying visual comfort, WAI2 is an ideal solution.

High-Efficiency Lambertian Optic (HLO)
The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. HLO has a spacing criterion of 1.10.

Asymmetric Refractive Optic (ARO2)
The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

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Intertek

VIA3-PENDANT-SPEC-REV6 September 16, 2025

bios PoE

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www.interfaceengineering.com

VIA 3 PENDANT

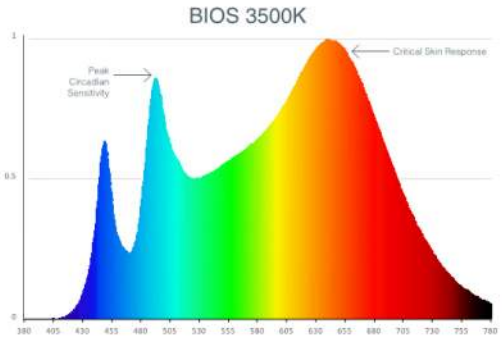
Lumenwerx

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

LIGHT SOURCE

Static white
Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K, 4000K, and 5000K with a minimum 80+ CRI and an option for 90+ CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

BIOS
BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being.
The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



Three BIOS solutions are offered: BIOS Biological Static (BIOSST), BIOS Biological Dynamic (BIOSDY), and BIOS Biological Tunable (BIOSTU). See page 8 for details.

LUMINAIRE LENGTH

Via 3 is available in standard lengths of 2' to 12' (up to 8' for MPO). Continuous runs are available for run lengths over 12' (8' for MPO). Exact run length must be noted in the product code. The minimum length is 2' for Direct or Indirect fixtures, and 3' for Direct/Indirect fixtures. Lengths can be ordered in 1' and/or 1" increments. All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277 VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% Eco, eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, ELV, TRIAC, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant. ELV and TRIAC dimming performance (including minimum dimming percentage) subject to dimmer selection.

PoE
Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

Electrical sections
Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.
Code: 2MC-2EC96

Example 2: A 16' Direct/Indirect fixture with separate circuits for direct and indirect, and with one 4' night light section on the direct side on a third circuit.
Code: 3MC-1NL48

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VIA 3 PENDANT

Lumenwerx

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Example 3: A 24' Direct fixture with one 4' generator transfer device section.
Code: 1MC-1GTD48

Battery
Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required.
Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

MOUNTING
Pendant fixtures can be mounted either with aircraft cable or with stem. See page 3 for details.

FINISH
Interior: 95%, reflective matte powder coated white paint
Exterior: Matte white, matte black, or aluminum powder coating. Custom finishes are also available.

CONTROLS
Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.
For latest information on sensors, click here.

Standalone controls
An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, sensor location, blank size, and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details.
Three types are available:

OMS: An integral Passive InfraRed (PIR) sensor turns luminaires on and off automatically with field-adjustable time out period. No wall control is used. Coverage pattern for large motion has a 12' diameter with the sensor mounted 8' above the floor; for small motion, the pattern has an 8' diameter. Typically, one sensor is required for every 10' of a continuous luminaire run.

ODS: An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

OCS: Both an occupancy and a daylight sensor are installed in the luminaire.

Connected controls
With connected controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand, and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

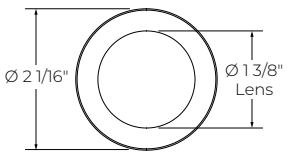
Lumenwerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by Lumenwerx, depending on the control system manufacturer.

Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

To indicate a Lumenwerx luminaire with connected controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact factory to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

AERA MODULE
Compact COB (Chip-On-Board) LED module, available in 2700K, 3000K, 3500K, 4000K, and 5000K with a choice of 80+ CRI or 90+ CRI, with elevated R9 value for 90+ CRI and above. Color consistency is maintained to within 2 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.



Aera 2"

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VIA 3 PENDANT

Lumenwerx

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

CONSTRUCTION

Housing: Extruded aluminum, up to 90% recycled content
Interior brackets: Die-formed cold rolled sheet steel
Joining system: Die-cast zinc
Reflectors: Die-formed cold rolled steel, 95% reflective matte white painted
Lens: Acrylic
Drop lens: Extruded with glued end caps
End caps: Die-cast aluminum
Hanger: Chromed griplock securely attached in end caps and/or joiners with stainless steel hardware
Aircraft cable suspension: Ø 1/16" stainless steel aircraft cable
Stem: Ø 1/2" threaded steel tube

WEIGHT

Direct/Indirect	Direct or Indirect
4': 13.23 lbs - 6.0 kg	**4'**: 11.12 lbs - 5.05 kg
8': 26.48 lbs - 12.0 kg	**8'**: 22.25 lbs - 10.1 kg
12': 39.84 lbs - 18.0 kg	**12'**: 33.48 lbs - 15.2 kg

CERTIFICATIONS

ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.
Declare: LBC Red List Approved

WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

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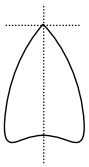
Multiple Layers of Light



Luminaire Type:
Catalog Number:

General Illumination Round Downlight 4"

OVERVIEW

Feature Set

- Bounding Ray™ optical design
- Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment.
- 45° cutoff to source and source image
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 MacAdam Ellipse; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling
- Available with 10% dimming, 1% dimming, or dim to dark
- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
- UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting. UGR FAQ

Distribution

Medium (MD)
0.9 S:MH

Medium Wide (MDW)
1.0 S:MH

Wide (WD)
1.2 S:MH

design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.

*See ordering tree for details

Superior Perfomance*

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500
Delivered Lumens	271	573	808	1001	1527	1994	2580	3110	3612	4120	4584
Wattage	3.1	7.2	7.9	8.8	13.7	19.5	25.7	31.2	38.4	35.4	40.1
Lumens per Watt	87.4	79.6	102.3	113.8	111.5	102.3	100.4	99.7	94.1	116	114

*Based on 3500K AR LSS MWD 80CRI

COMPLEMENTARY PRODUCTS

Coordinated Apertures | Multiple Layers of Light

General Illumination Layer | EVO

High Center Beam Layer | Incito

EVO + Incito — Multiple Layers of Light

Core
Downlight | Adjustable | Open Wallwash | Lensed Wallwash | Cylinder | Pinhole | Bevel | Hyperbolic

Healthcare
MRI | Surgical Suite | Patient Room

Special Applications
Dynamic | Food Service | Vandal/Tamper | Clean Room | Shower | Steam Room

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4" General Illumination Round Downlight

ORDERING INFORMATION

Design Select options indicated by this color background.

Luminaire Type:

Catalog Number:

EXAMPLE: EV04 35/25 AR MWD LSS 120 EZ1

Series	Color Temperature	Nominal Lumen Values	Reflector & Flange Color	Trim Style	Finish	Distribution	Voltage
EV04	27/ 2700 K 30/ 3000 K 35/ 3500 K 40/ 4000 K 50/ 5000 K	02 250 lumens 05 500 lumens 07 750 lumens 10 1000 lumens 15 1500 lumens 20 2000 lumens 25 2500 lumens 30 3000 lumens 35 3500 lumens 40 4000 lumens 45 4500 lumens	AR Clear PR Pewter WTR Wheat GR Gold WR[1] White BR[1] Black WRAMF[1] White Anti-microbial TRALTBD[1,2] RAL paint for pricing only TCPC[1] Custom paint color	(blank) Self-flanged FL Flangeless	LSS Semi-specular LD Matte-diffuse LS Specular	MD Medium (0.9 s/mh) MWD Medium wide (1.0 s/mh) WD Wide (1.2 s/mh)	MVOLT 120 277 347[3,4]

Driver[5]	Control Interface	Emergency Options	Options
GZ10 0-10V driver dims to 10% GZ1 0-10V driver dims to 1% EZ10 eldoLED 0-10V ECOdrive. Linear dimming to 10% min. EZ1 eldoLED 0-10V ECOdrive. Linear dimming to 1% min. EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%. EDAB eldoLED SOLOdrive DALI. Logarithmic dimming to <1%. EDXB eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Minimum 1000 lumens. Includes termination resistor. Refer to DMXR Manual. ECOD[6] Lutron Ecosystem digital Hi-Lume 1% soft-on, fade to black. Min: 250LLM; Max: 4000LM.	NLT[7] nLight® dimming pack controls NLTER[3,7,8] nLight® dimming pack controls emergency circuit NLTAIR2[3,9,10] nLight® Air enabled NLTAIRER2[3,8,9] nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit NLTAIREM2[3,9] nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit with battery pack options.	ELSD[11] Emergency battery pack, 10W, with self-diagnostics, integral test switch ELRSD[11] Emergency battery pack, 10W, with self-diagnostics, remote test switch E10W[11] Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch E10WR[11] Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch GTD Generator transfer device. Specify 120V or 277V.	SF Single Fuse. Specify 120V or 277V TRW[12] White painted flange TRBL[13] Black painted flange FRALTBD[2] Flange ring only RAL color for pricing only FCPC Flange custom paint color N80[14] nLight® Lumen Compensation GTD Generator transfer device. Specify 120V or 277V 90CRI High CRI (90+) CP[15] Chicago Plenum. Specify 120V or 277V for 5000lm and above. RRL__ RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only with RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on www.acuitybrands.com for RELOC® product specifications. Above ceiling access required.

ACCESSORIES — order as separate catalog numbers (shipped separately)

SCA4	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D. Refer to TECH-190.
CTAEV04	4" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5").
CTA4-8 YK	4"-8" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). For use with CWW/DWW trims, EDXB, CP or nTune options.
ISD BC	0-10V wallbox dimmer. Refer to ISD-BC.

ORDERING NOTES

1. Not available with finishes.
2. Replace with applicable RAL number and finish when ready to order. See RAL BROCHURE for available color options. Not available with emergency battery pack options.
3. Not available with emergency battery pack options.
4. Supplied with factory installed step down transformer.
5. Refer to TECH-240 for compatible dimmers.
6. Not available with nLight®.
7. Must specify voltage.
8. ER for use as UL924 Emergency Operation via power sense lead. Will require an emergency hot feed and normal hot feed. EM for use as UL924 Emergency Operation via power interrupt detection.
9. Not available DALI or DMX drivers. Not available with CP or N80 options. Not recommended for metal ceiling installations.
10. When combined with the EZ1, EZ10, or EZB option, normal luminaires (non-emergency) can be used as a normal power sensing device for nearby nLight AIR devices and luminaires with EM emergency options.
11. 11" of plenum depth or top access required for battery pack maintenance.
12. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with WR (white reflector) or FL (flangeless) option.
13. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with BR (black reflector) or FL (flangeless) option.
14. Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ10 and EZ1 drivers.
15. Not available with ELR, HAO, or EXAB, or any nLight® AIR dimming options.

GOTHAM ARCHITECTURAL DOWNLIGHTING | 1 Acuity Way, Decatur, GA 30035 | P 800-705-SERV (7378) | gothamlighting.com

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4" General Illumination Round Downlight

SPECIFICATIONS

Optical Assemby
Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top-down flash characteristic for superior glare control.
Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment.

Electrical
The luminaire shall operate from a 50 or 60 Hz ±3 Hz AC line over a voltage ranging from 120 VAC to 277 VAC. The fluctuations of line voltage shall have no visible effect on the luminous output.
The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.
Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.
Input wires shall be 18AWG, 300V minimum, solid copper.

Controls
Luminaire shall be equipped with interface for nLight wired or wireless network with integral power supply as per specification.

Dimming
The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.
eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered.
Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

Construction
Fully serviceable and upgradeable lensed LED light engine, both the driver and light engine are suitable for field maintenance and are serviceable from above or below the ceiling.
Luminaire housing shall be constructed of 20-gauge galvanized steel and have telescopic mounting bars with maximum 26" and minimum 15" extension and 4" vertical adjustment.
Luminaires shall be suitable for installation in ceilings up to 1½" thick. (specify ceiling thickness adapter to extend frame to accommodate ceiling thickness up to 2").
Tool-less adjustments shall be possible after installation.
The assembly and manufacturing process for the luminaire shall be designed to assure all internal components are adequately supported to withstand mechanical shock and vibration.
25°C ambient temperature standard (1/2" clearance on all sides from non-combustible materials in non-IC applications, unless marked spacing noted otherwise). For use in insulated ceilings, a 3" clearance on all sides from insulation is required (unless marked spacing noted otherwise).

Listings
Fixtures are CSA certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the “Standards for Safety” to UL, wet location covered ceiling.

Government Procurement
BAA - Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations
BABA - Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act
Please refer to www.acuitybrands.com/buy-american for additional information.

Photometrics
LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.
Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 60,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by a point at the intersection of the CCT line and the black body locus line in CIE chromaticity space.

Warranty
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note:
Actual performance may differ as a result of end user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.

A+ Capable Luminaire
This item is an A+ capable luminaire, which has been designed and tested to provided consistent color appearance and out-of-the-box control capability with simple commissioning when used with Acuity Brands controls products.
All configurations of this luminaire are calibrated and tested meet the Acuity Brands' specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.
To learn more about A+, visit www.acuitybrands.com/aplus.

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4" **General Illumination Round Downlight**

Tables of Use

EVO - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EXA1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic	Linear
EDXB	<1%	Logarithmic	Linear

Driver		Control Provided (note: 347V/UVOLT versions provided with 347 option selected)				
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIR2ER	NLTAIREM2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
EZ10	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
EZ1	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2

How to Estimate Delivered Lumens in Emergency Mode

Delivered Lumens = 1.25 x P x LPW

P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

Flangeless

Flangeless Installation

Gotham's flangeless option utilizes a micro-thin polymer mud ring that minimizes the amount of drywall compound required to finish the ceiling. The end result is a virtually undetectable flangeless downlight installation.

The polymer mud ring is installed independent of the of the recessed frame, therefore floating with the ceiling. This innovation minimizes any surface cracks during reflector installation, ceiling movement and any future service to the recessed frame, wiring, electronics, etc.

Partially finished mud ring, showing cross-section detail.

An EVO downlight requires only approximately 3" of plaster to finish.

EVO with flangeless trim

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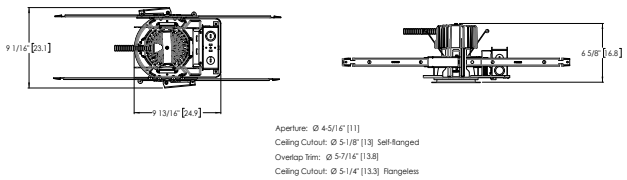
4" General Illumination Round Downlight

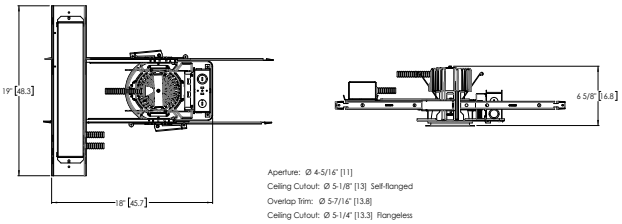
DIMENSIONAL DATA

Aperture: 4-5/16" (11)	Ceiling Opening: 5-1/8" (13) self-flanged
Overlap trim: 5-7/16" (13.8)	5-1/4" (13.3) flangeless

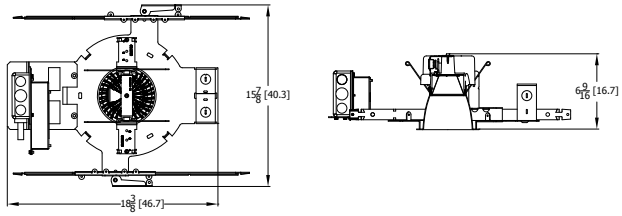
Standard



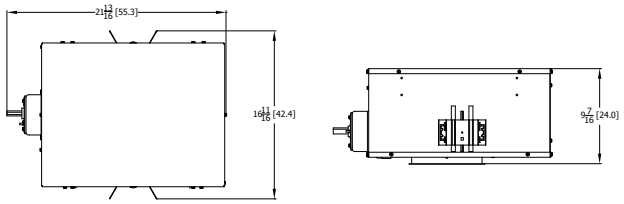
Battery Pack



CP Standard



CP Enclosed For Use With Battery Pack & nLight



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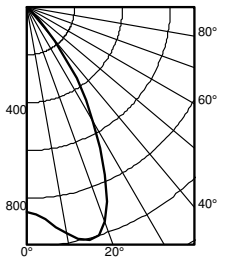
4" General Illumination Round Downlight

Photometry

EV04 35/10 MWD LS INPUT WATTS: 8.8W, DELIVERED LUMENS: 1001.7LM, LPW = 113.8, 1.08 S/MH, TEST NO. LTL27786P131



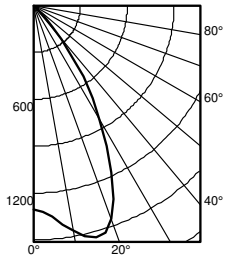
	Ave	Lumens
0	856	
5	888	87
15	1010	280
25	775	350
35	363	225
45	61	56
55	2	2
65	1	1
75	0	0
85	0	0
90	0	

Zone	Lumens	% Lamp
0° - 30°	717.4	71.6
0° - 40°	942.0	94.0
0° - 60°	1000.8	99.9
0° - 90°	1001.7	100.0
90° - 180°	0.0	0.0
0° - 180°	1001.7	*100.0

*Efficiency

		50% beam - 56.7°		10% beam - 79.7°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	28.3	5.9	14.1	9.2	2.8
10.0	15.2	8.1	7.6	12.5	1.5
12.0	9.5	10.3	4.7	15.9	0.9
14.0	6.5	12.4	3.2	19.2	0.6
16.0	4.7	14.6	2.3	22.5	0.5

EV04 35/15 MWD LSS INPUT WATTS: 13.7W, DELIVERED LUMENS: 1527.3LM, LPW = 111.4, 1.08 S/MH, TEST NO. LTL27786P137



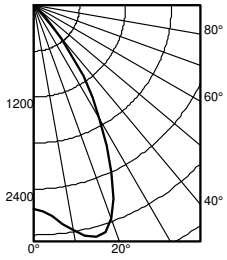
	Ave	Lumens
0	1305	
5	1354	133
15	1539	428
25	1181	533
35	553	342
45	93	86
55	2	4
65	1	1
75	0	0
85	0	0
90	0	

Zone	Lumens	% Lamp
0° - 30°	1093.9	71.6
0° - 40°	1436.2	94.0
0° - 60°	1525.8	99.9
0° - 90°	1527.3	100.0
90° - 180°	0.0	0.0
0° - 180°	1527.3	*100.0

*Efficiency

		50% beam - 56.7°		10% beam - 79.7°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	43.2	5.9	21.6	9.2	4.3
10.0	23.2	8.1	11.6	12.5	2.3
12.0	14.5	10.3	7.2	15.9	1.4
14.0	9.9	12.4	4.9	19.2	1.0
16.0	7.2	14.6	3.6	22.5	0.7

EV04 35/30 MWD LSS INPUT WATTS: 31.2W, DELIVERED LUMENS: 3110.6LM, LPW = 99.6, 1.08 S/MH, TEST NO. LTL27786P155



	Ave	Lumens
0	2659	
5	2758	271
15	3135	871
25	2406	1086
35	1126	697
45	189	175
55	5	7
65	2	2
75	0	1
85	0	0
90	0	

Zone	Lumens	% Lamp
0° - 30°	2227.9	71.6
0° - 40°	2925.0	94.0
0° - 60°	3107.6	99.9
0° - 90°	3110.6	100.0
90° - 180°	0.0	0.0
0° - 180°	3110.6	*100.0

*Efficiency

		50% beam - 56.7°		10% beam - 79.7°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	87.9	5.9	43.9	9.2	8.8
10.0	47.3	8.1	23.6	12.5	4.7
12.0	29.5	10.3	14.7	15.9	2.9
14.0	20.1	12.4	10.1	19.2	2.0
16.0	14.6	14.6	7.3	22.5	1.5

CCT/CRI Multiplier Table		
CRI	**CCT**	**Multiplier**
80	2700K	0.96
	3000K	1.00
	3500K	1.00
	4000K	1.01
	5000K	1.07
90	2700K	0.80
	3000K	0.83
	3500K	0.85
	4000K	0.87
	5000K	0.91

Reflector Finish Multiplier	
Reflector Finish	**Multiplier**
LS - Specular	1
LSS - Semi Specular	0.956
WR - White	0.87
LD - Matte Diffuse	0.85
BR - Black	0.73

Distributions	
Distribution	**Beam**
MD	51
MWD	57
WD	73

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4" General Illumination Round Downlight

NLIGHT AIR

nLight® AIR is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

nLight® AIR Control Accessories
Order as separate catalog number. Visit nLight AIR.

Wall Switches	Model Number
On/Off single pole	rPODB (color) G2
On/Off two pole	rPODB 2P (color) G2
On/Off & raise/lower single pole	rPODB DX (color) G2
On/Off & raise/lower two pole	rPODB 2P DX (color) G2

nLight® AIR Control Accessories *(cont.)*

Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

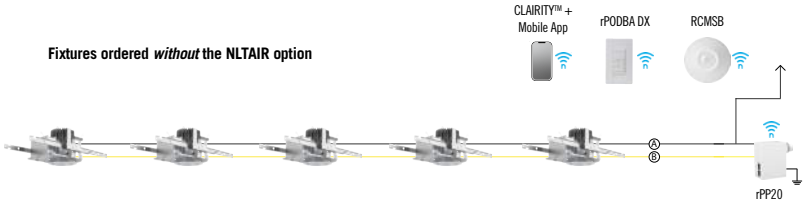
UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

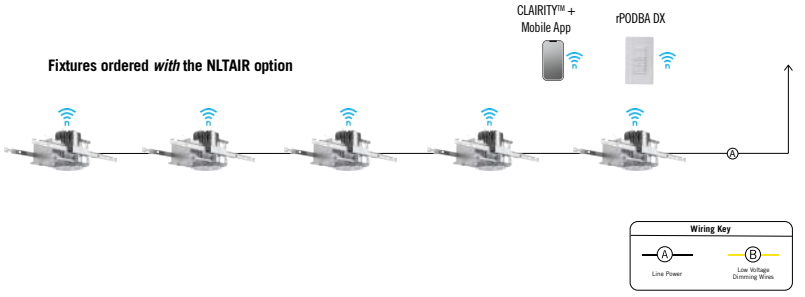
- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

Possibilites for nLight® AIR

Fixtures ordered *without* the NLTAIR option



Fixtures ordered *with* the NLTAIR option



NLIGHT

nLight® The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

nLight® Wired Control Accessories
Order as separate catalog number. Visit nLight.

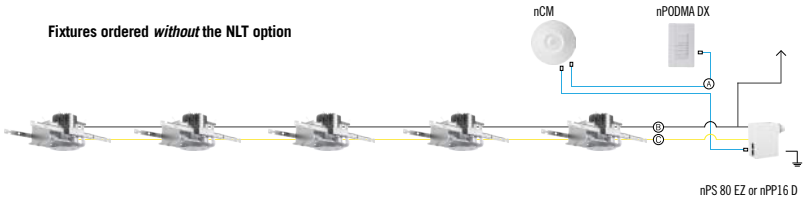
Wall Switches	Model Number
On/Off single pole	nPODM (color)
On/Off two pole	nPODM 2P (color)
On/Off & raise/lower single pole	nPOD DX (color)
On/Off & raise/lower two pole	nPODM 2P DX (color)
Graphic touchscreen	nPOD GFX (color)
Photocell Controls	
Dimming	nCM ADCX

nLight® Wired Control Accessories *(cont.)*

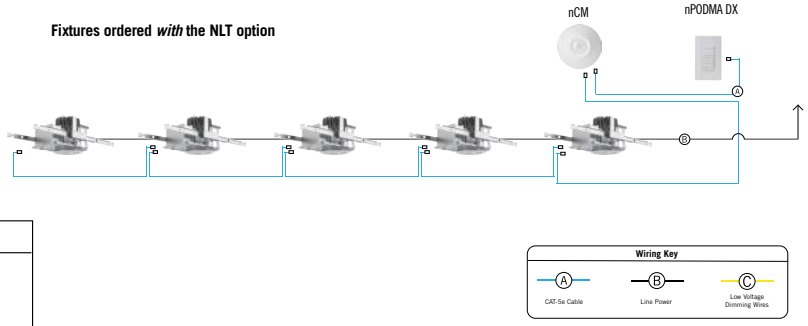
Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX
Cat-5 Cables (plenum rated)	
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

Possibilites for nLight® wired

Fixtures ordered *without* the NLT option



Fixtures ordered *with* the NLT option



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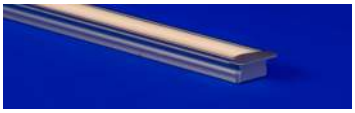
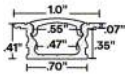
ESSENTIALS LATO-FLAT (01) STATIC WHITE

24VDC Linear Fixtures - Recessed





- Shallow flanged recessed fixture
- Choose from diffused, polar, frosted, or clear lens options for varying diode visibility and beam angles
- Flanged design merges light source with surface
- Stainless steel mounting clips
- Features painted end caps to match extrusion finish
- Suitable for installation in the storage area of a clothes closet when specified with LEDs at 4.0 watts or less per foot per NEC regulations
- Can be suitable for exterior use when specified as wet, contact factory for more information

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

1	2	3	4	5	6
PRODUCT	WATTS/ FT	CCT	RATED	EFFICIENCY	LENS

ADDITIONAL INFORMATION REQUIRED TO ORDER

7	8	9	10	11	12	13	14	15
WIRE INPUT/ OUTPUT	CONNECTOR/ WIRE IN	CONNECTOR/ WIRE OUT	WIRE COLOR	WIRE TYPE	MOUNTING	FINISH	LENGTH (IN)	EXACT/ OPTIMAL
					SST			

Sample Part Number: **LT1SW-3.0HE-30-DRY-WO-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

1 PRODUCT

LT1SW
LT1SW-USA

Select USA option for BAA and BABA projects. SW and SW-HE only. Only DRY or WET ratings apply. See following pages for compatible power supplies.

2 WATTS/FT

1.5	1.5W/ft
3.0	3.0W/ft
4.0	4.0W/ft
5.0	5.0W/ft
1.5HE	1.5W/ft HE
3.0HE	3.0W/ft HE
6.0HE	6.0W/ft HE

3.0HE+	3.0W/ft HE+
6.0HE+	6.0W/ft HE+

1.5	1.5W/ft
3.0	3.0W/ft
4.0	4.0W/ft
5.0	5.0W/ft
1.5HE	1.5W/ft HE
3.0HE	3.0W/ft HE
6.0HE	6.0W/ft HE

1.5	1.5W/ft
3.0	3.0W/ft
4.0	4.0W/ft
5.0	5.0W/ft

3 CCT

20	2000K
22	2200K
24	2400K
27	2700K
30	3000K
35	3500K
40	4000K

27	2700K
30	3000K
35	3500K
40	4000K

24	2400K
27	2700K
30	3000K
35	3500K
40	4000K

20	2000K
22	2200K
24	2400K
27	2700K
30	3000K
35	3500K
40	4000K

4 RATED

DRY IP20

DMP IP54

WET IP67

Can be suitable for exterior use, contact factory for more information

5 EFFICIENCY

STD Standard
WO White Optics

WhiteOptics - Internal coating, greater lumen output

6 LENS

DF Diffused
PR Polar
FR Frosted
CL Clear

For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages

7 WIRE INPUT/OUTPUT

SINGLE (Input only)
S1 End Feed
S2 Bottom Feed

For continuous mounting, consider bottom feed.

PASS THROUGH (Input/output)
P1 End Feed
P2 Bottom Feed

For continuous mounting, consider bottom feed.

8 CONNECTOR/WIRE IN

BW Bare Wire (Standard 24")
BRL Barrel
CON6 Connector 6"
CON24 Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

BW Bare Wire (Standard 24")
BRL Barrel
CON6 Connector 6"
CON24 Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

9 CONNECTOR/WIRE OUT

CLS Closed End (No feed)

BW Bare Wire (Standard 24")
BRL Barrel
CON6 Connector 6"
CON24 Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

10 WIRE COLOR

WH White
BK Black
N/A For Barrel

wet barrel only available in black

11 WIRE TYPE

CL2 Class 2
CL2P Plenum Rated
N/A For Barrel

CL2P only available with bare wire leads (BW)

12 MOUNTING

SST Stainless Steel

13 FINISH

ST Satin
BK Black
BZ Bronze
CU Custom

Custom finishes require a longer lead time, consult factory

14 LENGTH (IN)

Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".

15 EXACT/OPTIMAL

O Optimal Illumination
E Exact Specified Length

Exact fixtures match the exact length you specify, but they may have dim spots at the ends. Optimal fixtures are slightly shorter than the length specified, but provide full illumination from end to end. See Exact/Optimal Fixture Length charts.

Specification subject to change. Rev-11-07-25

5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance

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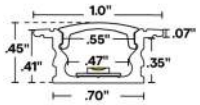
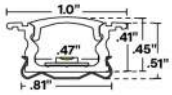
ESSENTIALS LATO-FLAT (01) STATIC WHITE

24VDC Linear Fixtures - Recessed

1 PRODUCT - DIMENSIONS



Profile with flat lens



Profile with stainless steel mounting clip

2 DELIVERED LUMENS

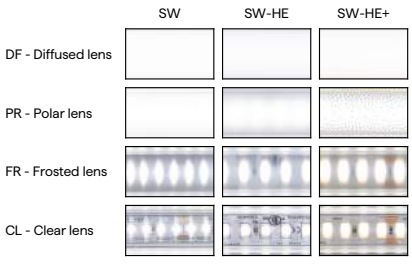
[Calculated L70 = 70000 hrs, L70 = 50000 for HE+]
Tested with LT1SW-**-30-DRY-STD

	1.5 W/FT		1.5HE W/FT		3.0 W/FT		3.0HE W/FT		3.0HE+ W/FT		4.0 W/FT		5.0 W/FT		6.0HE W/FT		6.0HE+ W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
CL	143	98	172	98	250	98	315	98	455	92	311	98	378	98	597	98	840	92
FR	142	98	171	98	248	98	314	98	453	92	308	98	375	98	595	98	837	92
PR	132	98	143	98	230	98	262	98	378	92	286	98	348	98	497	98	699	92
DF	113	98	136	98	197	98	249	98	359	92	245	98	299	98	471	98	663	92

[Calculated L70 = 70000 hrs, L70 = 50000 for HE+]
Tested with LT1SW-**-30-DRY-WO

	1.5 W/FT		1.5HE W/FT		3.0 W/FT		3.0HE W/FT		3.0HE+ W/FT		4.0 W/FT		5.0 W/FT		6.0HE W/FT		6.0HE+ W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
CL	151	98	185	98	263	98	339	98	489	92	326	98	397	98	643	98	904	92
FR	150	98	184	98	261	98	336	98	485	92	325	98	395	98	637	98	897	92
PR	140	98	170	98	245	98	312	98	451	92	304	98	370	98	592	98	833	92
DF	124	98	146	98	217	98	268	98	386	92	270	98	329	98	507	98	714	92

6 DIODE VISIBILITY



Specification subject to change. Rev-11-07-25

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ESSENTIALS LATO-FLAT (01) STATIC WHITE

24VDC Linear Fixtures - Recessed

PHOTOMETRIC PERFORMANCE

Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.

CL

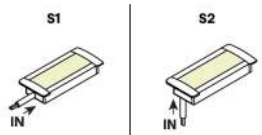
Clear 100°

TEMPERATURE RATINGS

		1.5 W/FT		1.5 HE W/FT		3.0 W/FT		3.0 HE W/FT		3.0 HE+ W/FT		4.0 W/FT		5.0 W/FT		6.0 HE W/FT		6.0 HE+ W/FT	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
DRY	Ambient Operating Temp - Recessed	-4°F	135°F	-4°F	140°F	-4°F	130°F	-4°F	135°F	-13°F	135°F	-4°F	120°F	-4°F	110°F	-4°F	110°F	-13°F	110°F
	Ambient Operating Temp - Surface	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
DMP	Ambient Operating Temp - Recessed	-4°F	130°F	-4°F	135°F	-4°F	125°F	-4°F	130°F	**	**	-4°F	115°F	-4°F	105°F	-4°F	105°F	**	**
	Ambient Operating Temp - Surface	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**

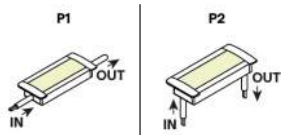
7 WIRE INPUT/OUTPUT

SINGLE (Input only)



End Feed | Bottom Feed

PASS THROUGH (Input/Output)



End Feed | Bottom Feed

Specification subject to change. Rev-11-07-25

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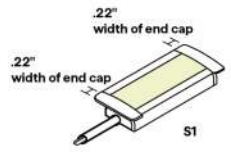
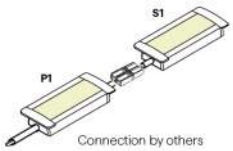
ESSENTIALS LATO-FLAT (01) STATIC WHITE

24VDC Linear Fixtures - Recessed

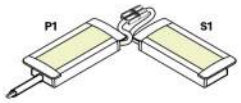
CONFIGURATION OPTIONS



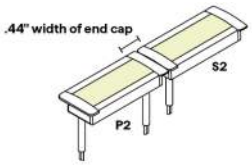
Single End Feed



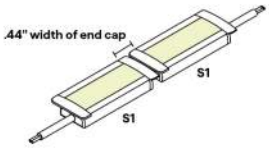
Connection by others
Non-Continuous End Feed



Connection by others
Non-Continuous Corner Feed



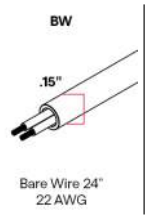
Non-Continuous Bottom Feed



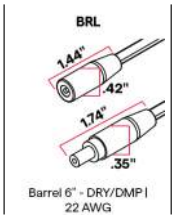
Non-Continuous End to End Feed

8/9 CONNECTOR/WIRE – IN/OUT

Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



Bare Wire 24" 22 AWG

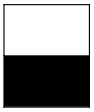


Barrel 6" - DRY/DMP | 22 AWG

Barrel 6"- WET | 22 AWG

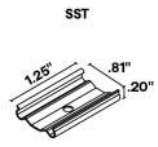
6" or 24" Overall Wire Connector | 22 AWG IP67 Rated, UL Listed

10 WIRE COLOR


White

Black

12 MOUNTING



Stainless Steel Clip

2 clips provided for 4' or less; 4 clips provided for greater than 4'

To order separately use SST-01

Each clip comes with a #4 x 5/8" Flat Head SS

13 FINISH


Satin

Black

Bronze

Custom finishes require a longer lead time, consult factory

Custom finishes require a longer lead time, consult factory

Specification subject to change. Rev-11-07-25

Interface Engineering
100 SW Main Street, Suite 1600
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TEL 503.382.2266
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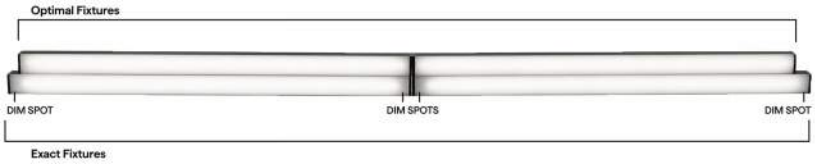
ESSENTIALS LATO-FLAT (01) STATIC WHITE

24VDC Linear Fixtures - Recessed

15 EXACT/OPTIMAL FIXTURE LENGTH

E/O Length Calculator → E/O Explained →

Exact fixtures are the exact length specified. Optimal fixtures' length is rounded down based on LED cut points to allow the fixture to be illuminated end to end. For runs with multiple fixtures that need to fill a specific length, it's recommended to order all optimal fixtures with an exact fixture at the end of the run.



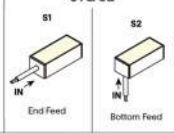
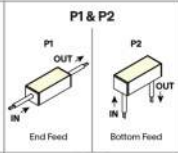
SW DRY, DMP LENGTHS BY INCH

Available in any length in between 12" and 98.43", chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 – 1/8". Consult factory for lengths under 12".

EXACT LENGTH

Requested Length	Potential dim spot on either end of fixture
12"	.5"
13"	.5"
14"	.5"
15"	.5"
16"	.5"
17"	.5"
18"	.5"
19"	.5"
20"	.5"
21"	.5"
22"	.5"
23"	.5"
24"	.5"
36"	.5"
48"	.5"
60"	.5"
72"	.5"
84"	.5"
96"	.5"

OPTIMAL LENGTH

Requested Nominal Length	S1 & S2	P1 & P2
		
12"	11.41"	11.66"
13"	12.41"	12.66"
14"	13.41"	13.66"
15"	14.41"	14.66"
16"	15.41"	15.66"
17"	16.41"	16.66"
18"	17.41"	17.66"
19"	18.41"	18.66"
20"	19.41"	19.66"
21"	20.41"	20.66"
22"	21.41"	21.66"
23"	22.41"	22.66"
24"	23.41"	23.66"
36"	35.41"	35.66"
48"	47.41"	47.66"
60"	59.41"	59.66"
72"	71.41"	71.66"
84"	83.41"	83.66"
96"	95.41"	95.66"

Specification subject to change. Rev-11-07-25

INTERFACE ENGINEERING

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ESSENTIALS LATO-FLAT (01) STATIC WHITE

24VDC Linear Fixtures - Recessed

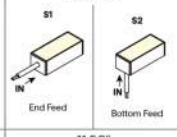
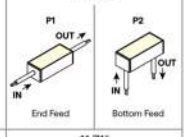
SW WET LENGTHS BY INCH

Available in any length in between 12" and 98.43", chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 – 1/8". Consult factory for lengths under 12".

EXACT LENGTH

Requested Length	Potential dim spot on either end of fixture
12"	.5"
13"	.5"
14"	.5"
15"	.5"
16"	.5"
17"	.5"
18"	.5"
19"	.5"
20"	.5"
21"	.5"
22"	.5"
23"	.5"
24"	.5"
36"	.5"
48"	.5"
60"	.5"
72"	.5"
84"	.5"
96"	.5"

OPTIMAL LENGTH

Requested Nominal Length	S1 & S2	P1 & P2
		
12"	11.56"	11.71"
13"	12.56"	12.71"
14"	13.56"	13.71"
15"	14.56"	14.71"
16"	15.56"	15.71"
17"	16.56"	16.71"
18"	17.56"	17.71"
19"	18.56"	18.71"
20"	19.56"	19.71"
21"	20.56"	20.71"
22"	21.56"	21.71"
23"	22.56"	22.71"
24"	23.56"	23.71"
36"	35.56"	35.71"
48"	47.56"	47.71"
60"	59.56"	59.71"
72"	71.56"	71.71"
84"	83.56"	83.71"
96"	95.56"	95.71"

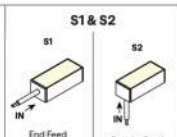
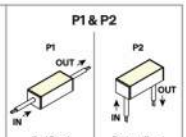
SW-HE, SW-HE+ DRY, DMP LENGTHS BY INCH

Available in any length in between 12" and 98.43", chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 – 1/8". Consult factory for lengths under 12".

EXACT LENGTH

Requested Length	Potential dim spot on either end of fixture
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

OPTIMAL LENGTH: highlighted rows are closest to requested nominal length

Requested Nominal Length	S1 & S2	P1 & P2
		
12"	10.41"	10.66"
13"	12.41"	12.66"
14"	12.41"	12.66"
15"	14.41"	14.66"
16"	14.41"	14.66"
17"	16.41"	16.66"
18"	16.41"	16.66"
19"	18.41"	18.66"
20"	18.41"	18.66"
21"	20.41"	20.66"
22"	20.41"	20.66"
23"	22.41"	22.66"
24"	22.41"	22.66"
36"	34.41"	34.66"
48"	46.41"	46.66"
60"	58.41"	58.66"
72"	70.41"	70.66"
84"	82.41"	82.66"
96"	94.41"	94.66"

Specification subject to change. Rev-11-07-25

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ESSENTIALS LATO-FLAT (01) STATIC WHITE

24VDC Linear Fixtures - Recessed

COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

DIM TO LEVEL	INDOOR		OUTDOOR	
	SW24/1.5-4.0	SW24/5.0, SW-HE, SW-HE+	SW24/1.5-4.0	SW24/5.0, SW-HE, SW-HE+
Dim to Black	Q6M-DC+CAP QTM-DC+CAP iQ-PH iQ-PH+QD1	Q6M-DC+CAP QTM-DC+CAP iQ-PH iQ-PH+QD1	QOM-DC+CAP QOM-PH	QOM-DC+CAP QOM-PH
0.1%	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-BOWTIE+DIMMER QZ-DMX QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-BOWTIE+DIMMER QZ-DMX QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP	Q-SET-QZ-DMX Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QOM-eLED+DALI-DT6 QOM-eLED+PS-DALI-DT6 QZ-DMX QZ-PH/0-10V	Q-SET-QZ-DMX Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QOM-eLED+DALI-DT6 QOM-eLED+PS-DALI-DT6 QZ-DMX QZ-PH/0-10V
1%	QTM-eLED(E) QZ-DALI-DT6	QTM-eLED(E) QZ-DALI-DT6	Q-SET+QZ-DALI-DT6 QZ-DALI-DT6	Q-SET+QZ-DALI-DT6 QZ-DALI-DT6
10%	Non-Dim Power Supply with SW App Dongle	Non-Dim Power Supply with SW App Dongle	Q-HEX-mini-DC Q-SET-mLED	

Specification subject to change. Rev-11-07-25

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ESSENTIALS LATO-FLAT (01) STATIC WHITE

24VDC Linear Fixtures - Recessed

DIMMING PROTOCOL	INDOOR		OUTDOOR	
	SW24/1.5-4.0	SW24/5.0, SW-HE, SW-HE+	SW24/1.5-4.0	SW24/5.0, SW-HE, SW-HE+
Non-Dim	QT-CAB-eLED-ND QTM-eLED-ND QZ-ND	QT-CAB-eLED-ND QTM-eLED-ND QZ-ND	Q-SET-QZ-ND Q-SET-eLED-ND QOM-eLED-ND QZ-ND	Q-SET-QZ-ND Q-SET-eLED-ND QOM-eLED-ND QZ-ND
Phase	Q6M-DC+CAP QT-CAB-QZ-PH/0-10V QTM-DC+CAP QTM-eLED(E) QZ-BOWTIE+DIMMER QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP iQ-PH iQ-PH+QD1	Q6M-DC+CAP QT-CAB-QZ-PH/0-10V QTM-DC+CAP QTM-eLED(E) QZ-BOWTIE+DIMMER QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP iQ-PH iQ-PH+QD1	Q-HEX-mini-DC Q-SET-QZ-PH/0-10V Q-SET-mLED QOM-DC+CAP QOM-PH QZ-PH/0-10V	Q-SET-QZ-PH/0-10V QOM-DC+CAP QOM-PH QZ-PH/0-10V
0-10V	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP	Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QZ-PH/0-10V	Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QZ-PH/0-10V
Lutron Athena	QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V-AWN QTM-eLED+DALI-DT6-AWN	QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V-AWN QTM-eLED+DALI-DT6-AWN		
ECO System	QTM-eLED(E)	QTM-eLED(E)		
DMX	QZ-DMX	QZ-DMX	Q-SET-QZ-DMX QZ-DMX	Q-SET-QZ-DMX QZ-DMX
DALI-2: DT6	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6	Q-SET+QZ-DALI-DT6 QOM-eLED+DALI-DT6 QZ-DALI-DT6	Q-SET+QZ-DALI-DT6 QOM-eLED+DALI-DT6 QZ-DALI-DT6
SCENE App Dimmed	Non-Dim Power Supply with SW App Dongle	Non-Dim Power Supply with SW App Dongle		

COMPATIBLE MOUNTING ACCESSORIES

Specification subject to change. Rev-11-07-25

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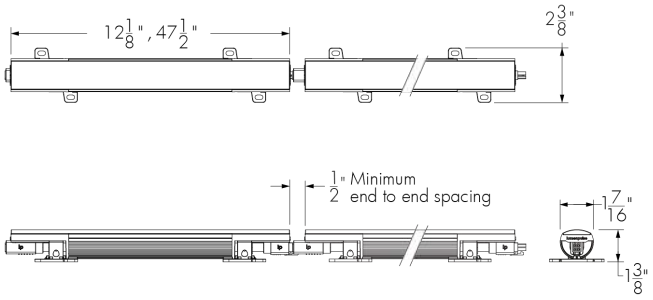
Specification Sheet

Lumencove
Lumencove Nano 2.0
LCN2
WHITE

Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____

Wide optic shown



Front and Side views, Wide Optic

Photometric Summary (Wide Optic)

RO - Regular output

CCT	Delivered Output [lm]	Power [W]	Efficacy [lm/W]
2700K	1214	12	101
3000K	1254	12	105
3500K	1335	12	111
4000K	1363	12	114

HO - High output [3]

CCT	Delivered Output [lm]	Power [W]	Efficacy [lm/W]
2700K	1895	20	95
3000K	1959	20	98
3500K	2087	20	104
4000K	2129	20	106

Photometric performance is measured in compliance with IESNA LM-79-08.
[1] Use 0.25 multiplier for each 12in [305mm] section.
[2] Frosted lens option ratio = x0.85.
[3] Estimated. Consult website for the latest photometric files.

Optics

NLF - 25°x80° **TAW** - 30°x75° **W** - 120°x120°

Controls

Powered by **lumendrive**™

ON/OFF 0-10V* DALI* DMX* **lumen**talk**

***Digital Data Bridge required, see wiring diagrams for details.**
****Digital and Lumentalk Data Bridge required, see wiring diagrams for details.**

Description

The Lumenpulse Lumencove Nano 2.0 family has expanded to include two new optical versions while maintaining their size, efficiency, and durability, thanks to the elimination of the power supply. Their resulting slim profile helps keep the source unseen without compromising their distinct quality of light and ability to deliver continuous lines of light. The Lumencove Nano 2.0 family offers a choice of sizes, outputs, optics and color temperatures, and come with a 10-year limited warranty.

Features

Color and Color Temperature	2700K, 3000K, 3500K, 4000K
Length (Nominal)	12 in, 48 in
Optics	Narrow Linear Flood (25° x 80°) Tilted Asymmetric Wallwash (30° x 75°) Wide (120°x120°)
Power Consumption	3 W/ft (RO version), 5 W/ft (HO version)
Adjustability	Adjustable mounting brackets, +/- 81° tilt angle
Warranty	10-year limited warranty (The limited 10-year warranty is only valid if the product is operated in an ambient environment that does not exceed 25 °C. Otherwise, our limited 5-year warranty shall apply)

Performance

Maximum Delivered Output	1589 lm (HO 4000K, 48 in fixture, Narrow Linear Flood Optic) 1842 lm (HO 4000K, 48 in fixture, Tilted Asymmetric Optic) 2129 lm (HO 4000K, 48 in fixture, Wide Optic, Clear Lens)
Color Consistency	2 SDCM
Color Rendering	Minimum CRI 80
Lumen Maintenance	L70 102,400 hrs (Ta 25 °C) L95 14,000 hrs (Ta 25 °C)

Interface Engineering
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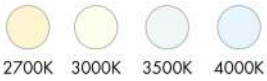
Specification Sheet

Lumencove
Lumencove Nano 2.0
LCN2
WHITE

Colors and Color Temperatures



Rating

IP20

Certifications

Physical

Housing Material	Polymer extruded housing
Lens Material	Clear high-transmittance polycarbonate injected lens or frosted lens (applicable to Wide optic only)
Finish	White
Weight	12 in: 0.5 lbs, 48 in: 1.5 lbs

Electrical and Control

Voltage	120 Volts, 230 Volts, 277 Volts
Fixture Cable	Power and data in 1 cable
Leader Cable Conductor	4C #16-4
Fixture Cable and Connector Color	White
Maximum Cable and Fixture Run Length	Up to 150 ft (On/Off control, 120V, RO and HO versions) Up to 300 ft (On/Off control, 230, 277V, RO and HO versions) Up to 150 ft (dimming, 120, 230, 277V, RO and HO versions)
Connector Type	Thumb latch connectors, breakable under load
Control	Powered by Lumendrive AC step drive, no power supply onboard, 0-10V, DMX and DALI dimming enabled with Digital Data Bridge, Lumentalk network enabled with Lumentalk Data Bridge and Digital Data Bridge

Environmental

Storage Temperature	-13 °F to 122 °F (device must reach start-up temperature value before operating)
Start-up Temperature	32 °F to 122 °F
Operating Temperature	32 °F to 122 °F
Environment	Indoor applications only
Ingress Protection Rating	IP20

Accessories (Order Separately)

Cables	Leader Cable, Jumper Cable
Control Boxes	Digital Data Bridge (required for dimming applications), Lumentalk Data Bridge

Important

Virtual Patent Marking Notice

This website (https://www.lmpg.com/patents-trademarks) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

Specification Sheet

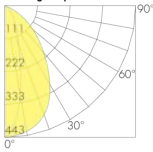
Lumencove
Lumencove Nano 2.0
LCN2
WHITE

Photometric Information

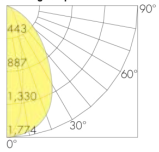
NLF - Narrow Linear Flood (25° x 80°), 4000K

Nominal output [lm]	Delivered output [lm]†	Power [W]	Efficacy [lm/W]
RO - Regular output 12 in	254	3	84
RO - Regular output 48 in	1,017	12	85
HO - High output 12 in	397	5	79
HO - High output 48 in	1,589*	20	79

Candlepower distribution HO - High output 12 in



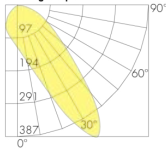
Candlepower distribution HO - High output 48 in



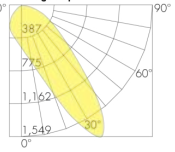
TAW - Tilted Asymmetric Wallwash (30° x 75°), 4000K

Nominal output [lm]	Delivered output [lm]†	Power [W]	Efficacy [lm/W]
RO - Regular output 12 in	295	3	98
RO - Regular output 48 in	1,179	12	98
HO - High output 12 in	461	5	92
HO - High output 48 in	1,842*	20	92

Candlepower distribution HO - High output 12 in



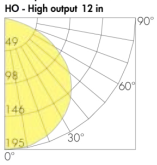
Candlepower distribution HO - High output 48 in



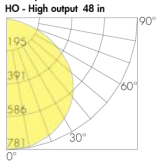
W - Wide (120° x 120°), 4000K, Clear Lens

Nominal output [lm]	Delivered output [lm]†	Power [W]	Efficacy [lm/W]
RO - Regular output 12 in	341	3	114
RO - Regular output 48 in	1,363	12	114
HO - High output 12 in	532	5	106
HO - High output 48 in	2,129*	20	106

Candlepower distribution HO - High output 12 in



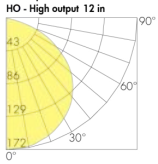
Candlepower distribution HO - High output 48 in



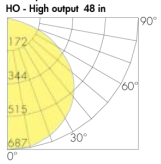
W - Wide (120° x 120°), 4000K, Frosted Lens

Nominal output [lm]	Delivered output [lm]†	Power [W]	Efficacy [lm/W]
RO - Regular output 12 in	299	3	100
RO - Regular output 48 in	1,198	12	100
HO - High output 12 in	468	5	94
HO - High output 48 in	1,872	20	94

Candlepower distribution HO - High output 12 in



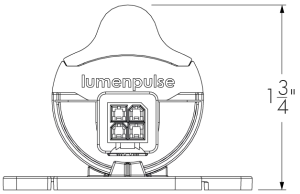
Candlepower distribution HO - High output 48 in



Delivered wattage: +/- 10% tolerance. Add 3 watts to the line of fixtures when specifying Lumentalk™.
† Consult website for latest IES files. Delivered output: +/- 10% tolerance.
*Photometric performance is measured in compliance with IESNA LM-79-24.

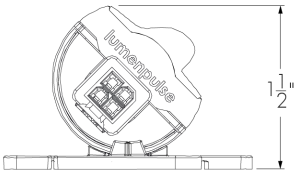
Optics Details

NLF - Narrow Linear Flood (25° x 80°)



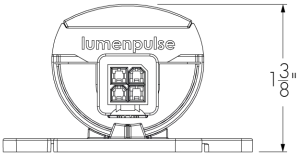
SIDE VIEW

TAW - Tilted Asymmetric Wallwash (30° x 75°)



SIDE VIEW

W - Wide (120°x120°)



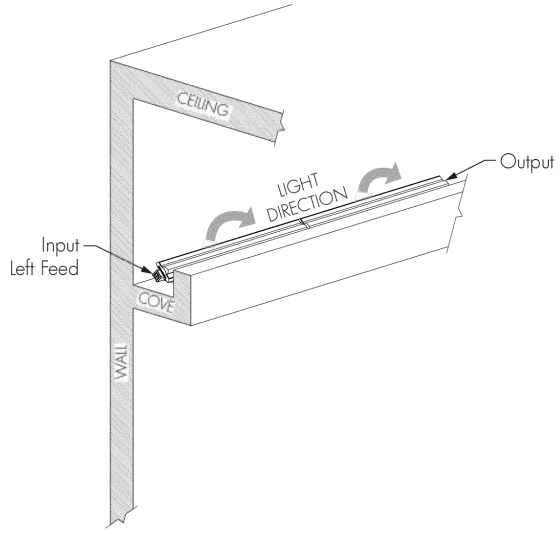
SIDE VIEW

Specification Sheet

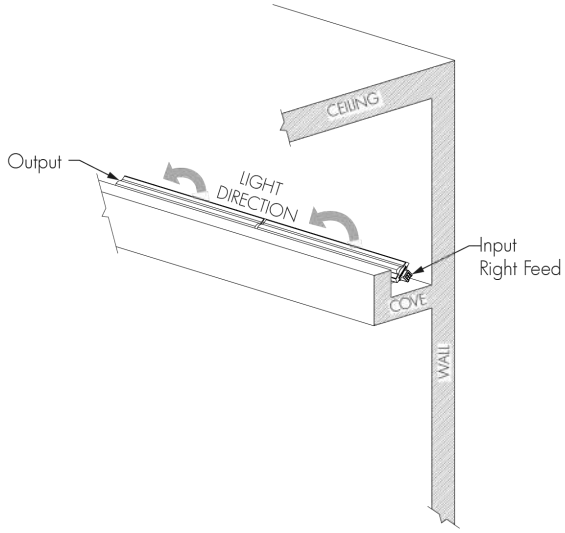
Lumencove
Lumencove Nano 2.0
LCN2
WHITE

Feeding Side

LF - Left Feeding Side



RF - Right Feeding Side

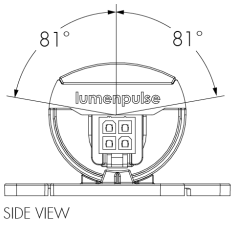


Option available for Tilted Asymmetric Wallwash Optic only.

Fixture's feeding side is based on uplight installations. Feeding sides are reversed when fixture is used in a downlight application.

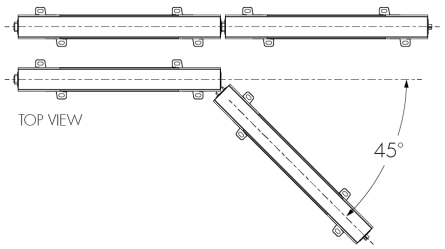
Adjustment

Maximum Pivot Limits



Adjustable in 9° increments

Maximum Angle Adjustment



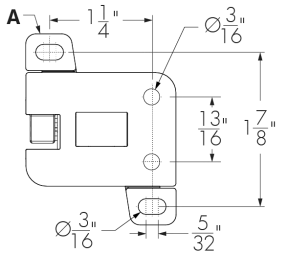
A jumper cable is required for angles greater than 45°.

Specification Sheet

Lumencove
Lumencove Nano 2.0
LCN2
WHITE

Mounting Details

Mounting Plate Dimensions

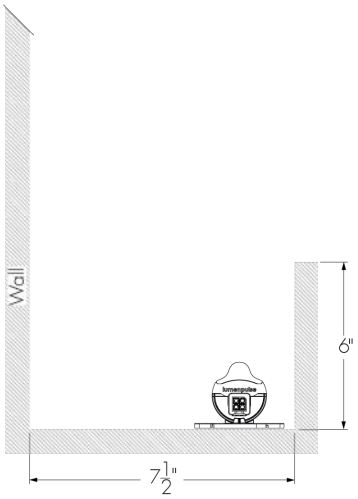


A - Breakable tab

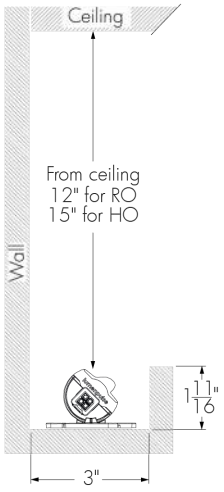
Setback Installation Guidelines

Suggested cove dimensions for minimum cove height.

NLF - Narrow Linear Flood (25° x 80°)

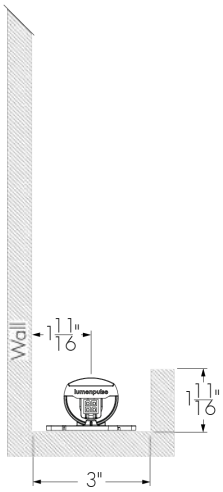


TAW - Tilted Asymmetric Wallwash (30° x 75°)



Fixture is shown with a 45° tilt adjustment. For best results, adjust fixture to a 45° angle and adjust as needed based on installation requirements.

W - Wide (120°x120°)



Specification Sheet

Lumencove
Lumencove Nano 2.0
LCN2

WHITE

Cables (Order Separately)

LCN2LC - Leader Cable for Lumencove Nano 2.0

LCN2LC-**CERTIFICATION**-120-277-**CONTROL-LENGTH-**WH
Please specify:
CERTIFICATION: UL or CE
CONTROL: NO, DIM, DMX, DALI
LENGTH: 10 ft, 25 ft

LCN2JC - Jumper Cable for Lumencove Nano 2.0

LCN2JC-**CERTIFICATION-LENGTH-**WH
Please specify:
CERTIFICATION: UL or CE
UL LENGTHS: 2 ft, 4 ft
CE LENGTHS: 4 ft

A jumper cable is required for angles greater than 45°.

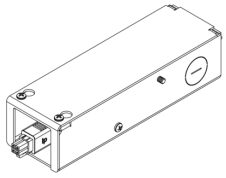
Minimum bending radius:
Fixed installation (5 X OD): 1.85 in
Movable installation (10 X OD): 3.7 in

Maximum pull tension: 49 Newton (5Kgf)

- Suitable for dimming/data and on/off applications.
- Consult Lumencove leader or jumper cable specification sheets for details.
- Digital Data Bridge is include with every leader cable.

Wiring Compartment (Order Separately)

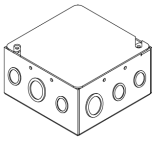
WC-120/277-LCN2-WH - Wiring Compartment



The Wiring Compartment is pre-wired with a leader cable, allowing the quick connection of conduits. Consult WC specification sheet for details.

Control Boxes (Order Separately)

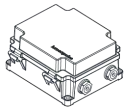
DDB - Digital Data Bridge (Required For Dimming Applications)*



Digital Data Bridge converts 0-10V, DALI and DMX control protocols to be compatible with Lumencove® Nano 2.0. The DDB is an auto-sensing 0-10V Sink/Source device.

*A Digital Data Bridge is included with every leader cable specified for dimming applications. Consult the LCN2 leader cable specification sheet for details.

LDB - Lumentalk Data Bridge



The Lumentalk Data Bridge is a digital interface that connects non-Lumentalk luminaires to the Lumentalk network, 0-10V or DMX output. Consult LDB specification sheet for details.

Specification Sheet

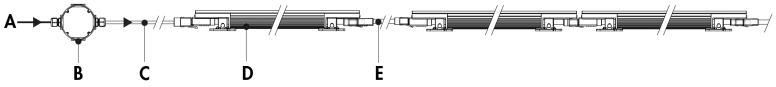
Lumencove
Lumencove Nano 2.0
LCN2
WHITE

Typical Wiring Diagrams

Wiring Color Code

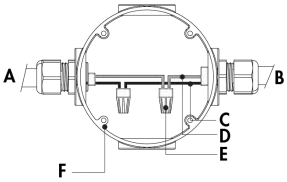
Color Code	USE
Black	Line
White	Line/Neutral
Red	Data +
Orange	Data -

On/Off Control (NO)



A - Power input (120, 230, 277V, wiring by others)
B - Junction box (by others)
C - Leader cable (LCN2LC)
D - Lumencove Nano 2.0 (LCN2)
E - Jumper cable (LCN2JC)

On/Off Control (NO) - Wiring Detail



A - Power input
B - To fixture
C - Line
D - Line/Neutral
E - Wire-nuts (by others)
F - Junction box (by others)

Maximum Run of Fixtures Lumencove® Nano 2.0 RO 3 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft	300ft	300ft

Maximum Run of Fixtures Lumencove® Nano 2.0 HO 5 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft	300ft	300ft

Based on 10ft or 25ft leader cable.
*Example: 120V = 150ft maximum run of end to end fixtures (37 fixtures maximum for 4ft LCN2).

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Regular Output version : 3 W/ft, High Output version : 5 W/ft.

Specification Sheet

Lumencove
Lumencove Nano 2.0
LCN2

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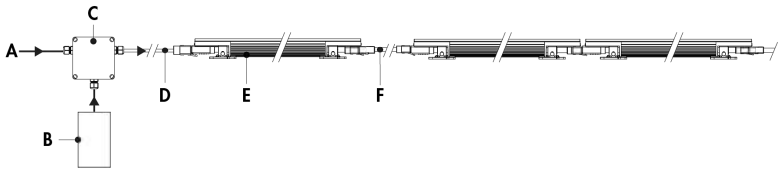
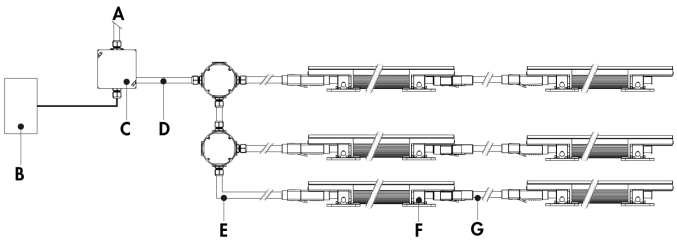
0-10V, DALI or DMX Dimming (Digital Data Bridge Required)



A - Power input (120, 230, 277V, wiring by others)
B - Dimmer, DALI or DMX controller (by others)
C - Digital Data Bridge (DDB-DIM, DDB-DALI or DDB-DMX)
D - Leader cable (LCN2LC)
E - Lumencove Nano 2.0 (LCN2)
F - Jumper cable (LCN2JC)

Alternate Wiring Diagram with Digital Data Bridge



A - Line Input (to match fixture specified voltage)
B - DMX controller (order separately from Lumenpulse, or by others)
C - Digital Data Bridge (DDB-DMX)
D - Power and data wiring
E - Leader cable (LCN2LC)
F - Lumencove Nano 2.0 (LCN2)
G - Jumper cable (LCN2JC)

Maximum Run of Fixtures using Digital Data Bridge Lumencove® Nano 2.0 RO 3 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft		

Maximum Run of Fixtures using Digital Data Bridge Lumencove® Nano 2.0 HO 5 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft		

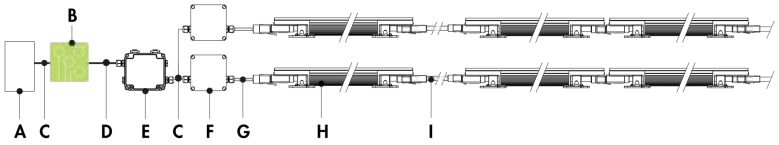
Based on 10ft or 25ft leader cable.
*Example: 150ft maximum run of end to end fixtures (37 fixtures maximum for 4ft LCN2).

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Digital Data Bridge required for installation, see DDB installation instructions for details.
- Maximum wire length between Digital Data Bridge and 1st fixture in run is 100 ft assuming 16AWG wire is used.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per DDB, active dimmer (Current Source): 0.5mA per DDB. The DDB is an auto-sensing 0-10V Sink/Source device.
- 10% minimum dimming value for 0-10V dimming, 5% minimum dimming value for DALI and DMX dimming.
- Regular Output version : 3 W/ft, High Output version : 5 W/ft.

Specification Sheet

Lumencove
Lumencove Nano 2.0
LCN2
WHITE

Lumentalk (LT, Lumentranslator, Lumentalk Data Bridge and Digital Data Bridge required)



A - Dimmer or DMX controller (order separately from Lumenpulse, or by others)
B - Lumentranslator (LTL-010, -DMX)
C - Data wiring (by others)
D - Power line (120, 230, 277V, AC, wiring by others)
E - Lumentalk Data Bridge (LDB-DIM or LDB-DMX)
F - Digital Data Bridge (DDB-DIM or DDB-DMX)
G - Leader cable (LCN2LC)
H - Lumencove Nano 2.0 (LCN2)
I - Jumper cable (LCN2JC)

Maximum Run of Fixtures using Digital Data Bridge Lumencove® Nano 2.0 RO 3 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft		

Maximum Run of Fixtures using Digital Data Bridge Lumencove® Nano 2.0 HO 5 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft		

Based on 10ft or 25ft leader cable.
*Example: 150ft maximum run of end to end fixtures (37 fixtures maximum for 4ft LCN2).

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum wire length between Digital Data Bridge and 1st fixture in run is 100 ft assuming 16AWG wire is used.
- Lumentalk Data Bridge and Digital Data Bridge required for Lumentalk applications, see LDB and DDB installation instructions for details. All fixtures attached to the Digital Data Bridge will act as 1 zone.

- For applications with all fixtures controlled as 1 zone: Digital Data Bridge and Lumentalk Data Bridge must be specified as DIM. Maximum of 24 Digital Data Bridges per Lumentalk Data Bridge (LDB-DIM). Consult factory for details.
- For applications where each Digital Data Bridge is a separate zone: Digital Data Bridge and Lumentalk Data Bridge must be specified as DMX. Maximum of 24 Digital Data Bridges per Lumentalk Data Bridge (LDB-DMX).

- For DMX applications: 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (minimum step transition update rate is 1 second, minimum fade time between two colors is 1 minute). Consult factory for applications that require additional capabilities.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system. No third party fixtures allowed on the same circuit.
- Consult factory for DALI Lumentalk applications.
- 10 % minimum dimming value.
- Regular Output version :3 W/ft, High Output version : 5 W/ft.

Interface Engineering
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

Specification Sheet

Lumencove
Lumencove Nano 2.0
LCN2

WHITE

How to Order

Housing [1]	Certification	Voltage	Length	Color and Color Temperature	Optic	Lens [4]	Feeding Side [5]	Finish
LCN2 RO Lumencove® Nano 2.0, Regular Output 3 W/ft [2] **LCN2 HO** Lumencove® Nano 2.0, High Output 5 W/ft [2]	**UL** UL Compliant [3]	**120** 120 Volts **230** 230 Volts **277** 277 Volts	**12** 12 1/8 in (0.5 lbs) **48** 47 1/2 in (1.5 lbs)	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K	**NLF** Narrow Linear Flood (25° x 80°) **TAW** Tilted Asymmetric Wallwash (30° x 75°) **W** Wide (120°x120°)	**CL** Clear Lens **FR** Frosted Lens	**LF** Left Feeding Side **RF** Right Feeding Side	**WH** White

Notes:

1. LCN2 is suitable for non-dimming and dimming applications. For dimming applications, a Digital Data Bridge (DDB) is required. For Lumentalk applications, a Digital Data Bridge (DDB) and Lumentalk Data Bridge (LDB) are required. A DDB is included with every LCN2 leader cable that specifies a dimming control option in the leader cable order code. Consult the LCN2 and LCN2 leader cable specification sheets for more information.

2. Consult factory for products that are BAA-approved (Buy America.n Act).
3. Consult European specification sheet for CE pin detail.
4. Lens options available for W optic only.
5. Feeding side required for TAW optic only.

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100 SW Main Street, Suite 1600
Portland, OR 97204
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www.interfaceengineering.com

Specification Sheet

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Lumencove Nano 2.0
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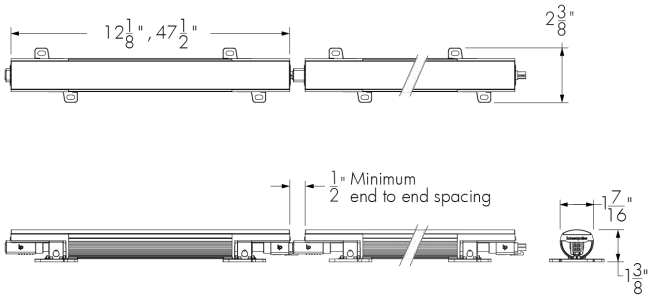
Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____

Wide optic shown



Front and Side views, Wide Optic

Photometric Summary (Wide Optic)

RO - Regular output

CCT	Delivered Output [lm]	Power [W]	Efficacy [lm/W]
2700K	1214	12	101
3000K	1254	12	105
3500K	1335	12	111
4000K	1363	12	114

HO - High output [3]

CCT	Delivered Output [lm]	Power [W]	Efficacy [lm/W]
2700K	1895	20	95
3000K	1959	20	98
3500K	2087	20	104
4000K	2129	20	106

Photometric performance is measured in compliance with IESNA LM-79-08.
[1] Use 0.25 multiplier for each 12in [305mm] section.
[2] Frosted lens option ratio = x0.85.
[3] Estimated. Consult website for the latest photometric files.

Optics

NLF - 25°x80° **TAW** - 30°x75° **W** - 120°x120°

Controls

Powered by **lumendrive**™

ON/OFF 0-10V* DALI* DMX* **lumentalk****

***Digital Data Bridge required, see wiring diagrams for details.**
****Digital and Lumentalk Data Bridge required, see wiring diagrams for details.**

Description

The Lumenpulse Lumencove Nano 2.0 family has expanded to include two new optical versions while maintaining their size, efficiency, and durability, thanks to the elimination of the power supply. Their resulting slim profile helps keep the source unseen without compromising their distinct quality of light and ability to deliver continuous lines of light. The Lumencove Nano 2.0 family offers a choice of sizes, outputs, optics and color temperatures, and come with a 10-year limited warranty.

Features

Color and Color Temperature	2700K, 3000K, 3500K, 4000K
Length (Nominal)	12 in, 48 in
Optics	Narrow Linear Flood (25° x 80°) Tilted Asymmetric Wallwash (30° x 75°) Wide (120°x120°)
Power Consumption	3 W/ft (RO version), 5 W/ft (HO version)
Adjustability	Adjustable mounting brackets, +/- 81° tilt angle
Warranty	10-year limited warranty (The limited 10-year warranty is only valid if the product is operated in an ambient environment that does not exceed 25 °C. Otherwise, our limited 5-year warranty shall apply)

Performance

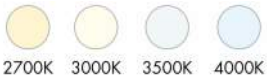
Maximum Delivered Output	1589 lm (HO 4000K, 48 in fixture, Narrow Linear Flood Optic) 1842 lm (HO 4000K, 48 in fixture, Tilted Asymmetric Optic) 2129 lm (HO 4000K, 48 in fixture, Wide Optic, Clear Lens)
Color Consistency	2 SDCM
Color Rendering	Minimum CRI 80
Lumen Maintenance	L70 102,400 hrs (Ta 25 °C) L95 14,000 hrs (Ta 25 °C)

Interface Engineering
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

Specification Sheet

Lumencove
Lumencove Nano 2.0
LCN2
WHITE

Colors and Color Temperatures



Rating

IP20

Certifications

Physical

Housing Material	Polymer extruded housing
Lens Material	Clear high-transmittance polycarbonate injected lens or frosted lens (applicable to Wide optic only)
Finish	White
Weight	12 in: 0.5 lbs, 48 in: 1.5 lbs

Electrical and Control

Voltage	120 Volts, 230 Volts, 277 Volts
Fixture Cable	Power and data in 1 cable
Leader Cable Conductor	4C #16-4
Fixture Cable and Connector Color	White
Maximum Cable and Fixture Run Length	Up to 150 ft (On/Off control, 120V, RO and HO versions) Up to 300 ft (On/Off control, 230, 277V, RO and HO versions) Up to 150 ft (dimming, 120, 230, 277V, RO and HO versions)
Connector Type	Thumb latch connectors, breakable under load
Control	Powered by Lumendrive AC step drive, no power supply onboard, 0-10V, DMX and DALI dimming enabled with Digital Data Bridge, Lumentalk network enabled with Lumentalk Data Bridge and Digital Data Bridge

Environmental

Storage Temperature	-13 °F to 122 °F (device must reach start-up temperature value before operating)
Start-up Temperature	32 °F to 122 °F
Operating Temperature	32 °F to 122 °F
Environment	Indoor applications only
Ingress Protection Rating	IP20

Accessories (Order Separately)

Cables	Leader Cable, Jumper Cable
Control Boxes	Digital Data Bridge (required for dimming applications), Lumentalk Data Bridge

Important

Virtual Patent Marking Notice

This website (https://www.lmpg.com/patents-trademarks) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

Specification Sheet

Lumencove
Lumencove Nano 2.0
LCN2

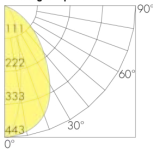
WHITE

Photometric Information

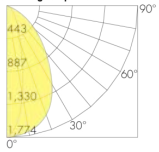
NLF - Narrow Linear Flood (25° x 80°), 4000K

Nominal output [lm]	Delivered output [lm]†	Power [W]	Efficacy [lm/W]
RO - Regular output 12 in	254	3	84
RO - Regular output 48 in	1,017	12	85
HO - High output 12 in	397	5	79
HO - High output 48 in	1,589*	20	79

Candlepower distribution HO - High output 12 in



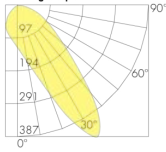
Candlepower distribution HO - High output 48 in



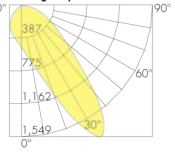
TAW - Tilted Asymmetric Wallwash (30° x 75°), 4000K

Nominal output [lm]	Delivered output [lm]†	Power [W]	Efficacy [lm/W]
RO - Regular output 12 in	295	3	98
RO - Regular output 48 in	1,179	12	98
HO - High output 12 in	461	5	92
HO - High output 48 in	1,842*	20	92

Candlepower distribution HO - High output 12 in



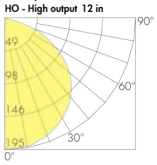
Candlepower distribution HO - High output 48 in



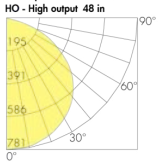
W - Wide (120° x 120°), 4000K, Clear Lens

Nominal output [lm]	Delivered output [lm]†	Power [W]	Efficacy [lm/W]
RO - Regular output 12 in	341	3	114
RO - Regular output 48 in	1,363	12	114
HO - High output 12 in	532	5	106
HO - High output 48 in	2,129*	20	106

Candlepower distribution HO - High output 12 in



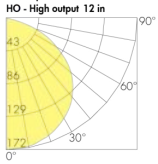
Candlepower distribution HO - High output 48 in



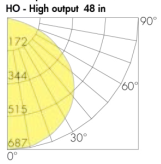
W - Wide (120° x 120°), 4000K, Frosted Lens

Nominal output [lm]	Delivered output [lm]†	Power [W]	Efficacy [lm/W]
RO - Regular output 12 in	299	3	100
RO - Regular output 48 in	1,198	12	100
HO - High output 12 in	468	5	94
HO - High output 48 in	1,872	20	94

Candlepower distribution HO - High output 12 in



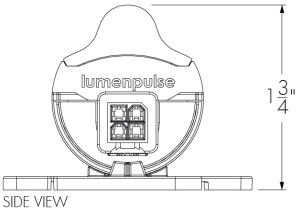
Candlepower distribution HO - High output 48 in



Delivered wattage: +/- 10% tolerance. Add 3 watts to the line of fixtures when specifying Lumentalk™.
† Consult website for latest IES files. Delivered output: +/- 10% tolerance.
*Photometric performance is measured in compliance with IESNA LM-79-24.

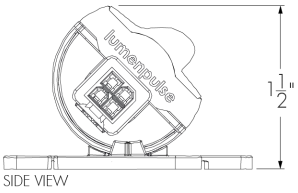
Optics Details

NLF - Narrow Linear Flood (25° x 80°)



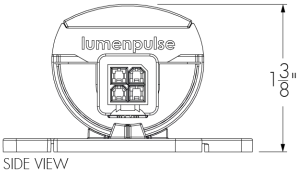
SIDE VIEW

TAW - Tilted Asymmetric Wallwash (30° x 75°)



SIDE VIEW

W - Wide (120°x120°)



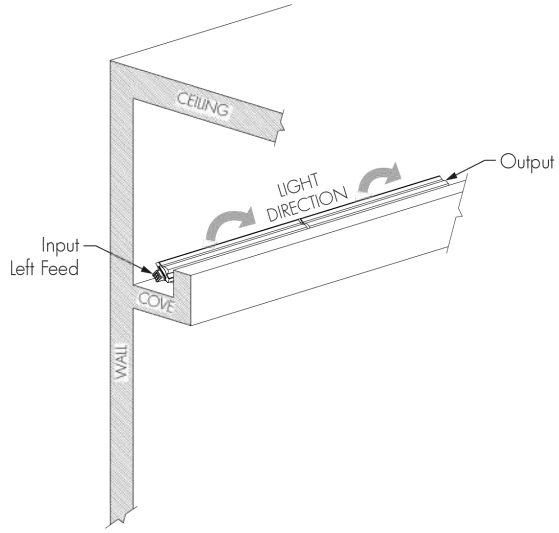
SIDE VIEW

Specification Sheet

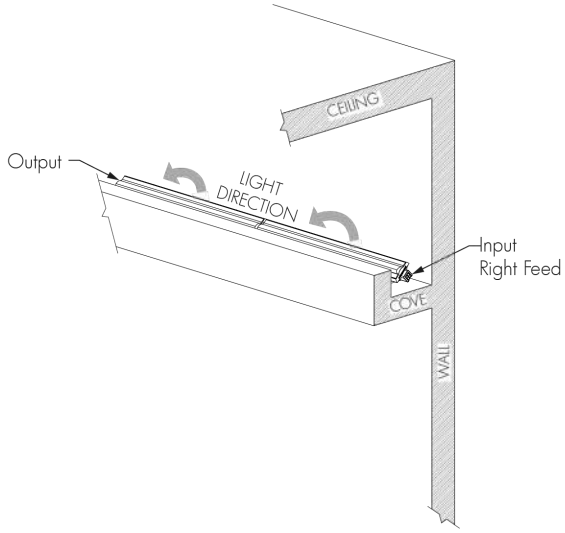
Lumencove
Lumencove Nano 2.0
LCN2
WHITE

Feeding Side

LF - Left Feeding Side



RF - Right Feeding Side

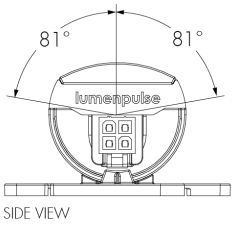


Option available for Tilted Asymmetric Wallwash Optic only.

Fixture's feeding side is based on uplight installations. Feeding sides are reversed when fixture is used in a downlight application.

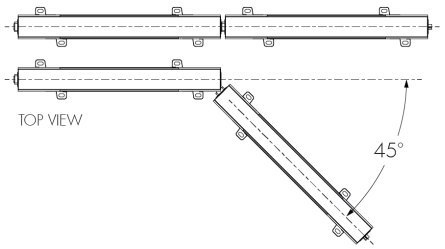
Adjustment

Maximum Pivot Limits



Adjustable in 9° increments

Maximum Angle Adjustment



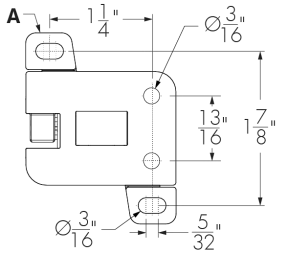
A jumper cable is required for angles greater than 45°.

Specification Sheet

Lumencove
Lumencove Nano 2.0
LCN2
WHITE

Mounting Details

Mounting Plate Dimensions

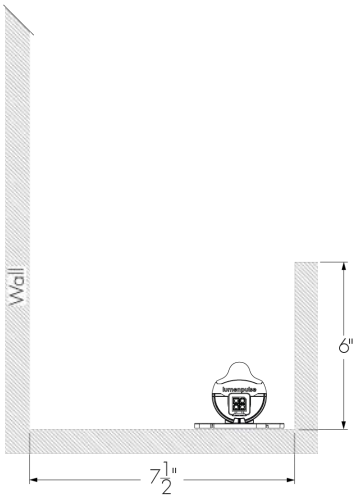


A - Breakable tab

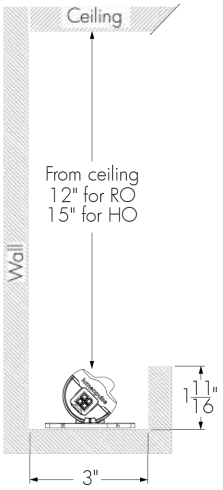
Setback Installation Guidelines

Suggested cove dimensions for minimum cove height.

NLF - Narrow Linear Flood (25° x 80°)

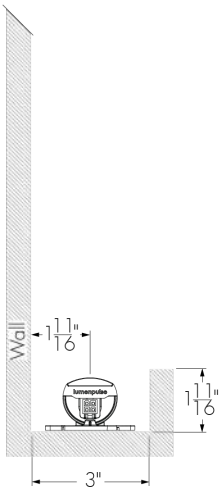


TAW - Tilted Asymmetric Wallwash (30° x 75°)



Fixture is shown with a 45° tilt adjustment. For best results, adjust fixture to a 45° angle and adjust as needed based on installation requirements.

W - Wide (120°x120°)



Specification Sheet

Lumencove
Lumencove Nano 2.0
LCN2

WHITE

Cables (Order Separately)

LCN2LC - Leader Cable for Lumencove Nano 2.0

LCN2LC-**CERTIFICATION**-120-277-**CONTROL-LENGTH-**WH
Please specify:
CERTIFICATION: UL or CE
CONTROL: NO, DIM, DMX, DALI
LENGTH: 10 ft, 25 ft

LCN2JC - Jumper Cable for Lumencove Nano 2.0

LCN2JC-**CERTIFICATION-LENGTH-**WH
Please specify:
CERTIFICATION: UL or CE
UL LENGTHS: 2 ft, 4 ft
CE LENGTHS: 4 ft

A jumper cable is required for angles greater than 45°.

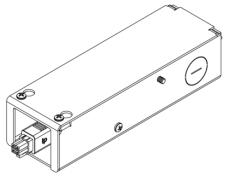
Minimum bending radius:
Fixed installation (5 X OD): 1.85 in
Movable installation (10 X OD): 3.7 in

Maximum pull tension: 49 Newton (5Kgf)

- Suitable for dimming/data and on/off applications.
- Consult Lumencove leader or jumper cable specification sheets for details.
- Digital Data Bridge is include with every leader cable.

Wiring Compartment (Order Separately)

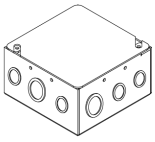
WC-120/277-LCN2-WH - Wiring Compartment



The Wiring Compartment is pre-wired with a leader cable, allowing the quick connection of conduits. Consult WC specification sheet for details.

Control Boxes (Order Separately)

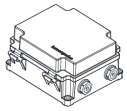
DDB - Digital Data Bridge (Required For Dimming Applications)*



Digital Data Bridge converts 0-10V, DALI and DMX control protocols to be compatible with Lumencove® Nano 2.0. The DDB is an auto-sensing 0-10V Sink/Source device.

*A Digital Data Bridge is included with every leader cable specified for dimming applications. Consult the LCN2 leader cable specification sheet for details.

LDB - Lumentalk Data Bridge



The Lumentalk Data Bridge is a digital interface that connects non-Lumentalk luminaires to the Lumentalk network, 0-10V or DMX output. Consult LDB specification sheet for details.

Specification Sheet

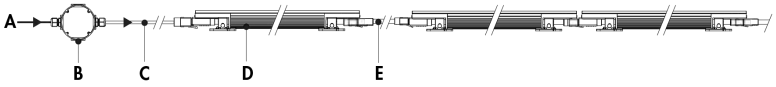
Lumencove
Lumencove Nano 2.0
LCN2
WHITE

Typical Wiring Diagrams

Wiring Color Code

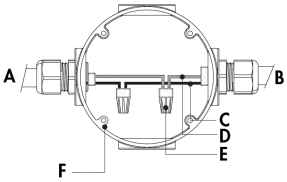
Color Code	USE
Black	Line
White	Line/Neutral
Red	Data +
Orange	Data -

On/Off Control (NO)



A - Power input (120, 230, 277V, wiring by others)
B - Junction box (by others)
C - Leader cable (LCN2LC)
D - Lumencove Nano 2.0 (LCN2)
E - Jumper cable (LCN2JC)

On/Off Control (NO) - Wiring Detail



A - Power input
B - To fixture
C - Line
D - Line/Neutral
E - Wire-nuts (by others)
F - Junction box (by others)

Maximum Run of Fixtures Lumencove® Nano 2.0 RO 3 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft	300ft	300ft

Maximum Run of Fixtures Lumencove® Nano 2.0 HO 5 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft	300ft	300ft

Based on 10ft or 25ft leader cable.
*Example: 120V = 150ft maximum run of end to end fixtures (37 fixtures maximum for 4ft LCN2).

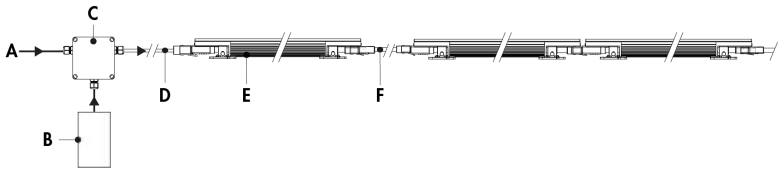
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Regular Output version : 3 W/ft, High Output version : 5 W/ft.

Specification Sheet

Lumencove
Lumencove Nano 2.0
LCN2

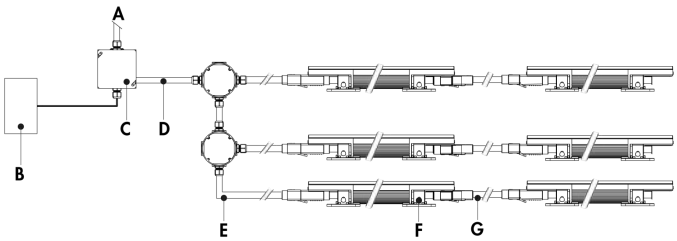
WHITE

0-10V, DALI or DMX Dimming (Digital Data Bridge Required)



A - Power input (120, 230, 277V, wiring by others)
B - Dimmer, DALI or DMX controller (by others)
C - Digital Data Bridge (DDB-DIM, DDB-DALI or DDB-DMX)
D - Leader cable (LCN2LC)
E - Lumencove Nano 2.0 (LCN2)
F - Jumper cable (LCN2JC)

Alternate Wiring Diagram with Digital Data Bridge



A - Line Input (to match fixture specified voltage)
B - DMX controller (order separately from Lumenpulse, or by others)
C - Digital Data Bridge (DDB-DMX)
D - Power and data wiring
E - Leader cable (LCN2LC)
F - Lumencove Nano 2.0 (LCN2)
G - Jumper cable (LCN2JC)

Maximum Run of Fixtures using Digital Data Bridge Lumencove® Nano 2.0 RO 3 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft		

Maximum Run of Fixtures using Digital Data Bridge Lumencove® Nano 2.0 HO 5 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft		

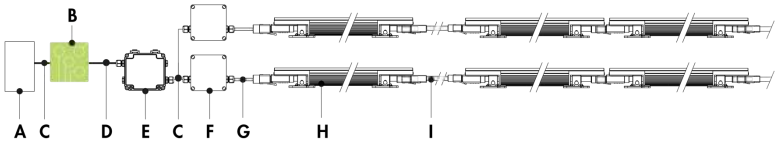
Based on 10ft or 25ft leader cable.
*Example: 150ft maximum run of end to end fixtures (37 fixtures maximum for 4ft LCN2).

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Digital Data Bridge required for installation, see DDB installation instructions for details.
- Maximum wire length between Digital Data Bridge and 1st fixture in run is 100 ft assuming 16AWG wire is used.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per DDB, active dimmer (Current Source): 0.5mA per DDB. The DDB is an auto-sensing 0-10V Sink/Source device.
- 10% minimum dimming value for 0-10V dimming, 5% minimum dimming value for DALI and DMX dimming.
- Regular Output version : 3 W/ft, High Output version : 5 W/ft.

Specification Sheet

Lumencove
Lumencove Nano 2.0
LCN2
WHITE

Lumentalk (LT, Lumentranslator, Lumentalk Data Bridge and Digital Data Bridge required)



A - Dimmer or DMX controller (order separately from Lumenpulse, or by others)
B - Lumentranslator (LTL-010, -DMX)
C - Data wiring (by others)
D - Power line (120, 230, 277V, AC, wiring by others)
E - Lumentalk Data Bridge (LDB-DIM or LDB-DMX)
F - Digital Data Bridge (DDB-DIM or DDB-DMX)
G - Leader cable (LCN2LC)
H - Lumencove Nano 2.0 (LCN2)
I - Jumper cable (LCN2JC)

Maximum Run of Fixtures using Digital Data Bridge Lumencove® Nano 2.0 RO 3 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft		

Maximum Run of Fixtures using Digital Data Bridge Lumencove® Nano 2.0 HO 5 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft		

Based on 10ft or 25ft leader cable.
*Example: 150ft maximum run of end to end fixtures (37 fixtures maximum for 4ft LCN2).

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum wire length between Digital Data Bridge and 1st fixture in run is 100 ft assuming 16AWG wire is used.
- Lumentalk Data Bridge and Digital Data Bridge required for Lumentalk applications, see LDB and DDB installation instructions for details. All fixtures attached to the Digital Data Bridge will act as 1 zone.

- For applications with all fixtures controlled as 1 zone: Digital Data Bridge and Lumentalk Data Bridge must be specified as DIM. Maximum of 24 Digital Data Bridges per Lumentalk Data Bridge (LDB-DIM). Consult factory for details.
- For applications where each Digital Data Bridge is a separate zone: Digital Data Bridge and Lumentalk Data Bridge must be specified as DMX. Maximum of 24 Digital Data Bridges per Lumentalk Data Bridge (LDB-DMX).

- For DMX applications: 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (minimum step transition update rate is 1 second, minimum fade time between two colors is 1 minute). Consult factory for applications that require additional capabilities.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system. No third party fixtures allowed on the same circuit.
- Consult factory for DALI Lumentalk applications.
- 10 % minimum dimming value.
- Regular Output version :3 W/ft, High Output version : 5 W/ft.

Specification Sheet

Lumencove
Lumencove Nano 2.0
LCN2

WHITE

How to Order

Housing [1]	Certification	Voltage	Length	Color and Color Temperature	Optic	Lens [4]	Feeding Side [5]	Finish
LCN2 RO Lumencove® Nano 2.0, Regular Output 3 W/ft [2] **LCN2 HO** Lumencove® Nano 2.0, High Output 5 W/ft [2]	**UL** UL Compliant [3]	**120** 120 Volts **230** 230 Volts **277** 277 Volts	**12** 12 1/8 in (0.5 lbs) **48** 47 1/2 in (1.5 lbs)	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K	**NLF** Narrow Linear Flood (25° x 80°) **TAW** Tilted Asymmetric Wallwash (30° x 75°) **W** Wide (120°x120°)	**CL** Clear Lens **FR** Frosted Lens	**LF** Left Feeding Side **RF** Right Feeding Side	**WH** White

Notes:

1. LCN2 is suitable for non-dimming and dimming applications. For dimming applications, a Digital Data Bridge (DDB) is required. For Lumentalk applications, a Digital Data Bridge (DDB) and Lumentalk Data Bridge (LDB) are required. A DDB is included with every LCN2 leader cable that specifies a dimming control option in the leader cable order code. Consult the LCN2 and LCN2 leader cable specification sheets for more information.

2. Consult factory for products that are BAA-approved (Buy America.n Act).
3. Consult European specification sheet for CE pin detail.
4. Lens options available for W optic only.
5. Feeding side required for TAW optic only.

Interface Engineering
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Portland, OR 97204
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www.interfaceengineering.com

LITHONIA LIGHTING®

DIGITAL NAVIGATION
Ordering Tree | nLight Platform | Controls | Photometrics | Performance Data

FEATURES & SPECIFICATIONS

INTENDED USE — ENVX is a high-performance recessed ambient solution suitable for all application types. Designed to improve quality of light, ENVX provides performance, configurability, delivery, value and style. A typically configured ENVX features a **Unified Glare Rating** (UGR) starting at 17, UGR data available on page 9. Il designs (Hourglass, Hourglass with Center Spine, and Parabolic Louvers). **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.**

CONSTRUCTION — ENVX is engineered to have a **curved luminous surface** to reduce glare while increasing its volumetric class. Its smooth acrylic lens, and direct-lit over optic technology, allow for **no individual LED images to be visible** to the occupants in the space. ENVX seamless transition zones permit for the **uniform illumination across the lens** to be visually comfortable to look into. Built with non-exposed corners and seamless flanges within the T-Grid, ENVX is a single, self-contained fixture with a steel housing and plastic end caps **not requiring onsite assembly** for installation outside of additional accessories. The power supply and circuit board of the luminaire is integral to the unit. ENVX allows for design flexibility by incorporating a center element, if chosen, without compromising its fully luminous aperture.

ENVX has **IP5X rated** sealed optics to prevent dust and bugs from protruding inside of the fixture. All the painted components within the luminaire have **paint particles of 31um or larger, painted to a thickness of no less than 3 mils** for even coverage. Before delivery, ENVX undergoes component verification by means of visual scanning equipment to ensure proper CCT, Lumens, and CRI; in addition to the optical scanning to detect visual defects for the most optimal quality assurance.

ELECTRICAL — ENVX delivers performance superiority with long-life LEDs and unique over optics that when coupled with high-efficiency drivers, provide superior quantity of illumination for extended service life. ENVX offers **80% LED lumen maintenance at 60,000 hours** and color variation within **3-step MacAdam ellipse ranging from 3000K-5000K**.

ENVX offers 8 different lumen packages ranging from 1500 to 7200 lumen with certifications in DLC Standard and/or DLC Premium allowing for rebates and energy savings solutions.

This fixture offers flicker free dimming with capability to dim to either 10%, 1% or .1%.

Driver disconnect provided where required to comply with US and Canadian codes.

STANDALONE EMBEDDED CONTROLS — Luminaires with standalone embedded controls by (SensorSwitch) are designed, manufactured, tested, and shipped with the sensor or control device factory-installed. This simplifies design layouts and reduces total installed cost by eliminating field installation of control devices.

NETWORKED EMBEDDED CONTROLS — Networked embedded controls by nLight address the requirements of Luminaire Level Lighting Controls (LLLC). Luminaires with networked embedded controls by nLight are designed, manufactured, tested, and shipped with occupancy, daylight sensors or control devices factory-installed. This simplifies design layouts and reduces total installed cost by eliminates field installation of control devices, while addressing code requirements.

INSTALLATION — ENVX **fits into standard 15/16" and narrow 9/16" T-grid ceiling systems**. Suitable for damp location. For recessed mounting in hard ceiling applications, Drywall Grid Adapters (DGA) are available as an accessory. See Accessories section.

LISTINGS — CSA certified to meet US and Canadian standards. Intended for indoor use only. **Damp location listed. IC rated. IP5X rated. Tested in accordance with ISO 14644-1; suitable for use in ISO Class 5–9 positive and negative pressure clean rooms.**

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

GOVERNMENT PROCUREMENT — BAA – Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual Performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

Catalog Number
Notes
Type

ENVX Series LED

ENVX™

1'x4' LED, 2'x2' LED and 2'x4' LED

HRG

HRGC

HRGL

Specifications

Length: 23.75 (60.3), 47.75 (121.4), 47.75 (121.4)
Width: 23.75 (60.3), 23.75 (60.3), 11.75 (29.7)
Depth: 3.625 (9.6), 3.625 (9.6), 3.125 (7.8)

All dimensions are inches (centimeters) unless otherwise specified.

Weights

2X2: 15 lbs
2X4: 22 lbs
1X4: 17 lbs

Embed nLight controls today. Prepare for tomorrow.

Now	Tomorrow
User-friendly install	Scalability
Enhanced energy savings	Space configuration
Code compliance	Future-ready

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning when used with Acuity Brands controls products.
All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency – including color rendering, color fidelity, and color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about Acuity A+ standards, specifications, and testing visit www.acuitybrands.com/aplus.

design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

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ENVX Spec Ambient

ENVX™ elegantly integrates with every ceiling type to allow structure and style to take the lead. The seamless transition zones from both of the hourglass designs, combined with low lumen density, create the high quality of light only ENVX™ can provide.

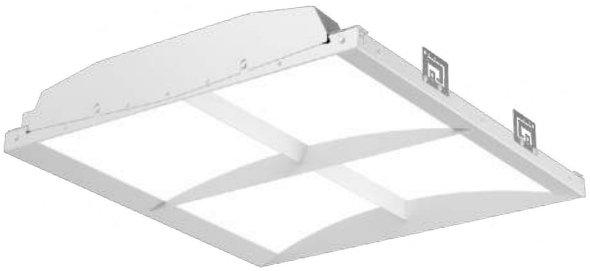
HRG: Hourglass Design

- Clean appearance in the ceiling plane provides design flexibility.
- Low lumen density delivers visually comfortable experience.
- Seamless transition zones & uniform illumination enables universal application.

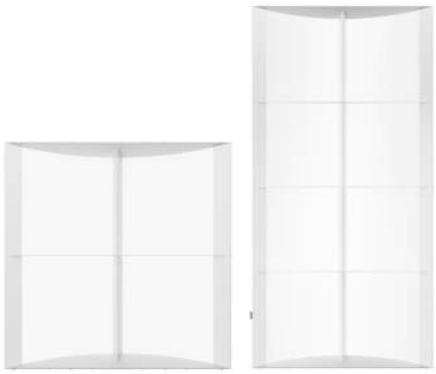
HRGC: Hourglass with Center Spine Design

- Center Spine design allows for further design optimization on a fully luminous surface.
- Spine's geometrically perfected angle preserves uniformity across the fixture surface.
- Unified transition zones on spine and side bezels grant ease of transition between lighter and darker areas.

HRGL: Hourglass With Blade Louver Design



- Parabolic louver design allows for further design optimization on a fully luminous surface.
- Four-cell (2x2) and Eight-cell (2x4) perfected angles preserves uniformity across the fixture.
- Unified transition zones on center and cross vanes grant ease of transition between lighter and darker areas.



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ENVX Spec Ambient

Design Select options indicated by this color background.

ORDERING INFORMATION

Example: ENVX 2X2 HRG 3300LM 80CRI 40K MIN1 EZT MVOLT

Series	Fixture Dimension	Fixture Style	Lumens Output	CRI	Color Temperature	Minimum Dimming Level
ENVX Spec Ambient LED Troffer	1x4 1'x4'	HRG Hourglass HRGC Hourglass with Center Spine HRGL Hourglass With Blade Louver ‡	1500LM Nominal 1500 lumens 2000LM Nominal 2000 lumens 3000LM Nominal 3000 lumens 4000LM Nominal 4000 lumens 4800LM Nominal 4800 lumens 6000LM Nominal 6000 lumens 7200LM Nominal 7200 lumens	80CRI 80 CRI 90CRI 90 CRI	30K 3000K 35K 3500K 40K 4000K 50K 5000K	DARK Constant current, dimming to <1% ‡ MIN1 Constant current, dimming to 1% MIN10 Constant current, dimming to 10%
	2x2 2'x2'		2000LM Nominal 2000 lumens 3300LM Nominal 3300 lumens 4000LM Nominal 4000 lumens 4800LM Nominal 4800 lumens			
	2x4 2'x4'		3000LM Nominal 3000 lumens 4000LM Nominal 4000 lumens 4800LM Nominal 4800 lumens 6000LM Nominal 6000 lumens 7200LM Nominal 7200 lumens			

Dimming	Voltage	Step Level Dimming	Emergency Option
EZT eldoLED 0-10V Dimming ‡ ZT Generic 0-10V ‡ ECO Lutron Ecosystem interface ‡ DALI DALI ‡	MVOLT MVOLT, 120-277V 120 120V 277 277V 347 347V ‡	(blank) no step level dimming SLD Step-level dimming ‡	E7W Emergency Battery Pack, 7W, CA Title 20 Noncompliant ‡ E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS ‡ E15WLCP EM Self-Diagnostic battery pack, 15W Constant Power, Certified in CA Title 20 MAEDBS ‡ GTD Generator Transfer Device ‡

Controls Input		Sensor	
(blank)	No Control Input	(blank)	No Sensor or Control Input function only, if selected
SSE	Sensor Switch Embedded	APIR	Occ sensing with passive infared - on/off functionality and auto dimming photocell
		APDT	Occ sensor dual tech (passive infared & michrophonics) and auto dimming photocell
		VPIR8	Vertex low-profile on/off occupancy PIR occupancy sensor with VLP programming at 8ft mounting height
		VAPIR8	Vertex low-profile on/off occupancy sensor with auto dimming photocell with VLP programming at 8ft mounting height
		VPIR15	Vertex low-profile on/off occupancy PIR occupancy sensor with VLP programming at 15ft mounting height
		VPIR15ADC	Vertex low-profile on/off occupancy sensor with auto dimming photocell with VLP programming at 15ft mounting height
NLIGHT	nLight enabled	(blank)	No sensor, Control Input function only
NLIGHTER	nLight enabled, for use with generator supply EM power	PIR	Occ sensing with passive infared - on/off functionality
NLIGHTLM	nLight enabled with lumen management	PDT	Occ sensor dual tech (passive infared & michrophonics)
NLIGHTERLM	nLight enabled with lumen management, for use with generator supply EM power	APIR	Occ sensing with passive infared - on/off functionality and auto dimming photocell
		APDT	Occ sensor dual tech (passive infared & michrophonics) and auto dimming photocell
		VPIR8	Vertex low-profile on/off occupancy PIR occupancy sensor at 8ft mounting height
NLTAIR2	nLight AIR Generation 2 (wireless) enabled	(blank)	No sensor, Control Input function only
NLTAIREM2	nLight AIR Generation 2 (wireless) enabled and UL924 Emergency Operation, via power interupt detection ‡	APIR	Occ sensing with passive infared - on/off functionality and auto dimming photocell
		APDT	Occ sensor dual tech (passive infared & michrophonics) and auto dimming photocell
		VPIR8	Vertex low-profile on/off occupancy PIR occupancy sensor at 8ft mounting height

Standby Mode	Options			
NOC NOC Occupancy sensor disabled ‡	GLR	Fast-blowing fuse ‡	CP	Chicago plenum approved ‡
	GMF	Slow-blowing fuse ‡	RRLA	RELOC®-Ready Luminaire (RRL) connectors. Driver wired to pin position #1 (120V, 277V, 347V - Phase A)
	PWS1836	6' pre-wire, 18 gauge, 3/8" dia., 3 wire - 1 circuit	RRLAB	RELOC®-Ready Luminaire (RRL) connectors. Driver wired to pin position #2 (120V, 277V, 347V - Phase A)
	PWS1846	6' pre-wire, 18 gauge, 3/8" dia., 4 wire - 2 circuit	RRLAE	RELOC®-Ready Luminaire (RRL) connectors. Driver wired to pin position #1 (120V, 277V, 347V - Phase A). Emergency driver wired to pin postion #2 (120V, 277V, 347V - Phase B)
	PWS1846 PWSLV	Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge ‡	DWAM	Anti-microbial paint
	PWS1856LV	6' pre-wire, 18 gauge, 3/8" dia., 5 wire - 1 circuit w/ low voltage wires ‡	LATC	T-bar clips
			BAA	Buy America(n) Act Compliant

NOTE: ‡ indicates option value has ordering restrictions. Please reference the Option Value Ordering Restictions chart on the next page.

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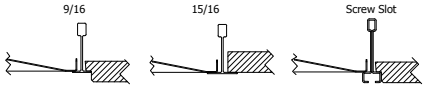
ENVX Spec Ambient

Option Value Ordering Restrictions ‡	
Option Value	**Restriction**
DARK	Not available with SSE or Networked Controls
EZT	Not available with MIN10
ZT	Not available with DARK
ECO	Not available with MIN10 or with networked or wired controls
DALI	Not available with: MIN10 or MIN1 or with an networked or wired controls
347	Not available with: E7W, E10WLCP, E15WLCP, SLD, GTD, GLR, GMF, ECO
SLD	Not available with 7200LM. Not available with any controls. Must select MIN10. Leave Dimming section blank
E7W	Not available with 347V
E10WLCP	Not available with 347V
E15WLCP	Not available with: 2X2 or 347V
EMG	Not available with: 1500LM, 2000LM. Leave Dimming section blank. Must select a Networked Control
GTD	Must select 120 OR 277, Not available with 347V or MVOLT
NETWORKED CONTROLS	when selecting NLIGHT(EM, ER, LM, ERLM) or NLTAIR(2, EM2) the dimming section is left blank, not available with DARK, MIN10, or SLD. Solutions with integrated sensors will have a temporary extended Leadtime.
STAND ALONE CONTROLS	SSE Options: SSE (all options) Not available with DARK or MIN10, not available with Network Controls or SLD. Solutions with integrated sensor will have a temporary extended lead time.
NLTAIREM2	See UL924 Sequence of Operation chart on page 4. Can be used as a normal power sensing device for nLight AIR devices and luminaires with EM emergency options.
NOC	Must select a Wireless Network Control
GLR	Must select 120 or 277
GMF	Must select 120 or 277
PWS1846 PWSLV, PWS1856LV	Not available with nLight wired network or individual controls
PS1055LCP	Field installable only on the 1X4 and 2X4 version of the ENVX
BAA	Not available with ECO, DALI, SLD, VPIR8, VPIR8ADC, VPIR15, or VPIR15ADC
CP	Not available with NLIGHT wired network or individual controls, PWS1836, PWS1846, PWS1846 PWSLV or PWS1856LV
HRGL	Not available with 1x4



*DGA accessory available to provide ceiling trim flange and fixture support for plaster or plasterboard ceiling. Recommended rough-in dimensions for DGA installation is 24-3/4" x 24-3/4" (Tolerance is +1/8", -0").

UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 secondsl.
- Using the CL**AIR**ITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

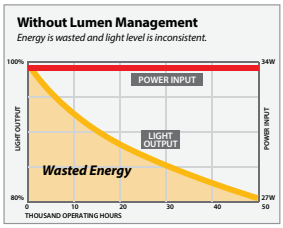
Accessories

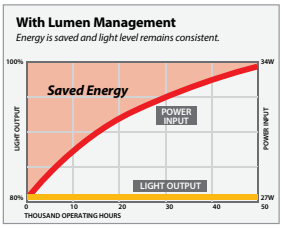
Accessories: *Order as separate catalog number.*

DGA14	Drywall grid adapter for 1x4 recessed fixture.
DGA22	Drywall grid adapter for 2x2 recessed fixture.
DGA24	Drywall grid adapter for 2x4 recessed fixture.
ENVX TGRID CLIP J4	Pack of 4 grid clips for 9/16" T grid compatibility.
ENVX TGRID CLIP J50	Pack of 50 grid clips for 9/16" T grid compatibility.
PS1055LCP M5	Field installable, not available with 347V. See restriction note above. ‡
1X4SMKSHP PAF	Multi-Use Surface Mount Kit 1X4 Post-Paint
2X2SMKSHP PAF	Multi-Use Surface Mount Kit 2x2 Post-Paint
2x4SMKSHP PAF	Multi-Use Surface Mount Kit 2x4 Post-Paint

Constant Lumen Management

Enabled by the embedded nLight control, the ENVX actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.





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ENVX Spec Ambient

Intelligent Luminaire Technology Guide

Choose nomenclature from these columns

Control/ Sensor Configurations

Control Input		Sensor		Sensor	Notes
SSE	+	APIR	=	MSD 7 ADCX	Individual fixture control only. PIR integral occupancy sensor with automatic dimming control photocell.
SSE	+	APDT	=	MSD PDT 7 ADCX	Individual fixture control only. PDT integral occupancy sensor with automatic dimming control photocell.
SSE	+	VPIR8	=	VERTEX 8F EZ OCC VLP	Vertex low-profile on/off occupancy PIR occupancy sensor with VLP programming at 8ft mounting height.
SSE	+	VAPIR8	=	VERTEX 8F EZ ADC VLP	Vertex low-profile on/off occupancy sensor with auto dimming photocell with VLP programming at 8ft mounting height.
SSE	+	VPIR15	=	VERTEX 15F EZ OCC VLP	Vertex low-profile on/off occupancy PIR occupancy sensor with VLP programming at 15ft mounting height.
SSE	+	VAPIR15	=	VERTEX 15F EZ ADC VLP	Vertex low-profile on/off occupancy sensor with auto dimming photocell with VLP programming at 15ft mounting height.
NLIGHT	+	(blank)	=	nIO EZDXA	nLight enabled only. No onboard sensor.
NLIGHT	+	PIR	=	nIO EZDCL + nES 7	nLight enabled with PIR integral occupancy sensor.
NLIGHT	+	PDT	=	nIO EZDCL + nES PDT 7	nLight enabled with dual technology occupancy control sensor.
NLIGHT	+	APIR	=	nIO EZDCL + nES 7 ADCX	nLight enabled with PIR integral occupancy sensor with automatic dimming photocell.
NLIGHT	+	APDT	=	nIO EZDCL + nES PDT 7 ADCX	nLight enabled with dual technology occupancy controls sensor with automatic dimming photocell.
NLIGHT	+	VPIR8	=	NIO EZDXA + VERTEX 8F EZ OCC VLP	nLight enabled with Vertex low-profile on/off occupancy PIR occupancy sensor with VLP programming at 8ft mounting height.
NLIGHTER	+	(blank)	=	nIO EZDCL ER	Emergency nLight enabled only. No onboard sensor.
NLIGHTER	+	PIR	=	nIO EZDCL ER PH + nES 7	Emergency nLight enabled with PIR integral occupancy sensor.
NLIGHTER	+	PDT	=	nIO EZDCL ER PH + nES PDT 7	Emergency nLight enabled with dual technology occupancy control sensor.
NLIGHTER	+	APIR	=	nIO EZDCL ER + nES 7 ADCX	Emergency nLight enabled with PIR integral occupancy sensor with automatic dimming photocell.
NLIGHTER	+	APDT	=	nIO EZDCL ER + nES PDT 7 ADCX	Emergency nLight enabled with dual technology occupancy controls sensor with automatic dimming photocell.
NLIGHTLM	+	(blank)	=	nIO EZDCL N80	nLight enabled only with 80% constant lumen management. No onboard sensor.
NLIGHTLM	+	PIR	=	nIO EZDCL N80 + nES 7	nLight enabled with 80% constant lumen management with PIR integral occupancy sensor.
NLIGHTLM	+	PDT	=	nIO EZDCL N80 + nES PDT 7	nLight enabled with 80% constant lumen management with dual technology occupancy control sensor.
NLIGHTLM	+	APIR	=	nIO EZDCL N80 + nES 7 ADCX	nLight enabled with 80% constant lumen management with PIR integral occupancy sensor with automatic dimming photocell.
NLIGHTLM	+	APDT	=	nIO EZDCL N80 + nES PDT 7 ADCX	nLight enabled with 80% constant lumen management with dual technology occupancy controls sensor with automatic dimming photocell.
NLIGHTERLM	+	(blank)	=	nIO EZDCL ER N80	Emergency nLight enabled only with 80% constant lumen management. No onboard sensor.
NLIGHTERLM	+	PIR	=	nIO EZDCL ER N80 + nES 7	Emergency nLight enabled with 80% constant lumen management with PIR integral occupancy sensor.
NLIGHTERLM	+	PDT	=	nIO EZDCL ER N80 + nES PDT 7	Emergency nLight enabled with 80% constant lumen management with dual technology occupancy control sensor.
NLIGHTERLM	+	APIR	=	nIO EZDCL ER N80 + nES 7 ADCX	Emergency nLight enabled with 80% constant lumen management with PIR integral occupancy sensor with automatic dimming photocell.
NLIGHTERLM	+	APDT	=	nIO EZDCL ER N80 + nES PDT 7 ADCX	Emergency nLight enabled with 80% constant lumen management with dual technology occupancy controls sensor with automatic dimming photocell.
NLTAIR2	+	(blank)	=	RIO EZDL 180D G2	nLight AIR Generation 2 enabled.
NLTAIREM2	+	(blank)	=	RIO EZDL EM 180D G2	nLight AIR Generation 2 enabled
NLTAIR2	+	APIR	=	RES7 G2	nLight AIR Generation 2 enabled.
NLTAIR2	+	APDT	=	RES7 PDT 90D G2	nLight AIR Generation 2 enabled.
NLTAIR2	+	APIREM	=	RES7 EM 90D G2	nLight AIR Generation 2 enabled.
NLTAIR2	+	APDTEM	=	RES7 PDT EM 90D G2	nLight AIR Generation 2 enabled.
NLTAIR2	+	VPIR8	=	RIO EZDL EXTDB ACWH 90D G2 + VERTEX 8F EZ OCC VLP	nlight AIR Generation 2 enabled. Vertex low-profile on/off occupancy PIR occupancy sensor with VLP programming at 8ft mounting height.

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Emergency Battery Pack Options - Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter/ 2-hour Runtime
ILB CP10 A	10W	90	1200	
ILB CP10 HE AELR A	10W	90	1200	Title 20; Enabled with Self Testing, Automated Reporting (STAR)
ILBLP CP10 HE SD A	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic

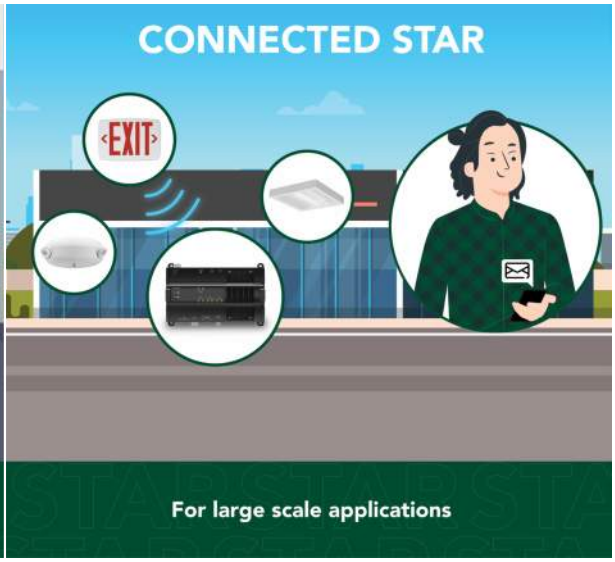
All the above are UL 924 Listed products that are certified for field install external/remote to the fixture.
*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.
Delivered emergency illumination of CP10 models outperforms legacy 1400 lumen fluorescent emergency ballasts.
Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.

Enabled with STAR

Emergency Lighting with Self-Testing Automated Reporting (STAR), enables self-testing and automated reporting to aid in life safety code compliance. Build your solution and choose your preferred deployment from Mobile STAR, where test data is logged in each individual unit and broadcast to the CIAIRity™+ app, or Connected STAR, where test data is logged in the STAR Gateway by IOTA® and emailed directly. **Leave the ladders, disruptions and written records behind with emergency lighting solutions with STAR!**

Life Safety Code NFPA 101 testing and reporting requirements for emergency lighting include:

- Testing for 30 seconds every 30 days
- Testing for 90 minutes once a year
- Record keeping and to report to the authority having local jurisdiction



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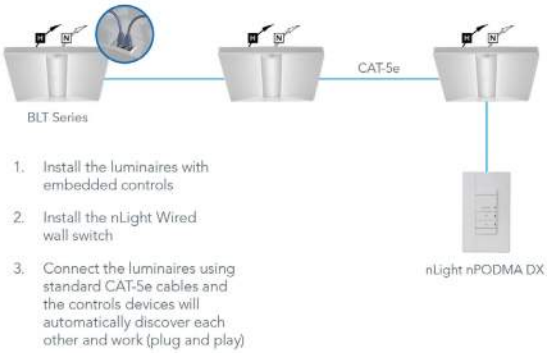
ENVX Spec Ambient

nLight Platform

nLight embedded fixtures offer:	Customers get:
Manual Dimming	Convenience and visual comfort for occupants
Motion Sensing and/or Daylight Harvesting	Energy savings and code compliance
Fixture or Group Level Control	Ability to configure lighting to the space requirements
Flexibility	Ease of fixture moves, adds and changes
Wireless Wall Switch (nLight AIR Only)	Ease and flexibility of placement
Astronomical and Time of Day Scheduling	Energy savings and building security
Scalable Solution	nLight controls to grow with your business
Future-Ready	nLight platform to set foundation for future upgrades and capabilities

Wired Embedded Controls



1. Install the luminaires with embedded controls
2. Install the nLight Wired wall switch
3. Connect the luminaires using standard CAT-5e cables and the controls devices will automatically discover each other and work (plug and play)

Wireless Embedded Controls

1. Install the luminaires with embedded controls
2. Install the nLight AIR battery-powered wall switch
3. Use CLAIRITY+ mobile app to pair the fixtures with the wall switch and if desired, customize the sensor settings

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ENVX Spec Ambient

Controls Accessories

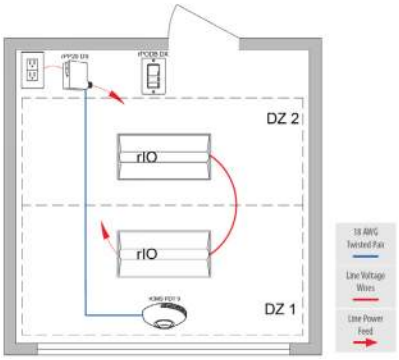
nLight® Wired Control Accessories:
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlight.

WallPod stations	Model number	Occupancy sensors	Model number
On/Off	nPODMA [Color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 RJB / nCM PDT 9 RJB
On/Off & raise/lower	nPODMA DX [Color]	Large motion 360°, ceiling (PIR / dual tech)	nCM10 RJB / nCM PDT 10 RJB
Graphic touchscreen	nPOD TOUCH [Color]	Wall switch with raise/lower	nWSX PDT LV DX [color]
Photocell controls	**Model number**	**Cat-5 cable (plenum rated)**	**Model number**
Full range dimming	nCM ADCX RJB	10' cable	CAT5 10FT J1
		30' cable	CAT5 30FT J1

nLight® AIR Control Accessories:
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.

Wall switches	Model number
On/Off single pole	rPODBA [color] G2
On/Off two pole	rPODBA 2P [color] G2
On/Off & raise/lower single pole	rPODBA DX [color] G2
On/Off & raise/lower two pole	rPODBA 2P DX [color] G2
Occupancy/Daylighting Sensor	**Model number**
Small Motion 360, Ceiling	rCMSB 7 G2

ENVX fixtures with integrated rIO devices complement any small office space. Pair them with an rCMS occupancy sensor and the space now has wireless occupancy sensing and dimming capability. For additional configuration options please consult with Tech Support.



rCMS			Example: RCMSB 7 G2
Series / Detection	**Detection**	**Lens**	**Generation**
RCMSB nLight AIR occupancy and daylight sensor	[blank] PIR Detection	7 Low Mount 360 45 High Mount 360° 45A High Mount Aisleway	G2 Generation 2 compatibility


Sensor Switch WSX


nLight WIRED NPOD UNITOUCH


nLight WIRED nPODMA DX


nLight AIR rPODBA


ENVX


rPODBA


RCMSB

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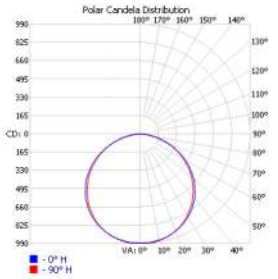
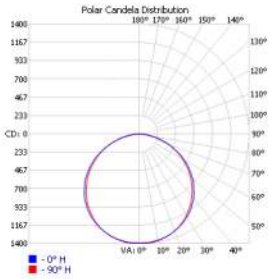
PHOTOMETRICS

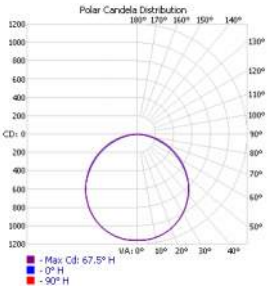
ENVX 1X4 HRG 3000LM 80CRI 35K



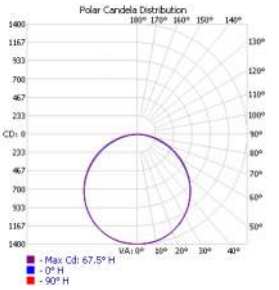
ENVX 1X4 HRG 4000LM 80CRI 35K



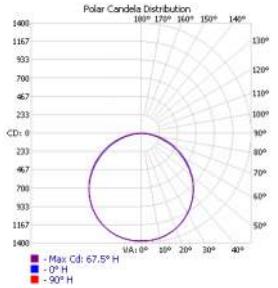
ENVX 2X2 HRG 3300LM 80CRI 35K



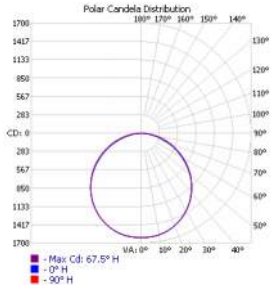
ENVX 2X2 HRG 4000LM 80CRI 35K



ENVX 2X4 HRG 4000LM 80CRI 35K

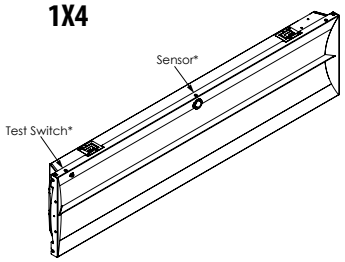


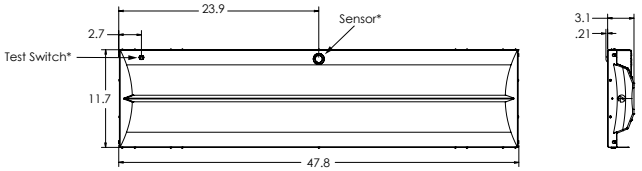
ENVX 2X4 HRG 4800LM 80CRI 35K



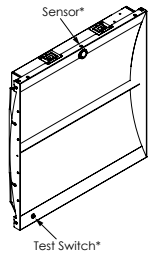
DIMENSIONS

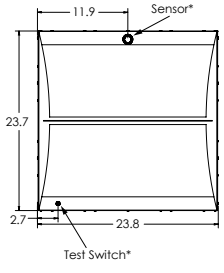
1X4

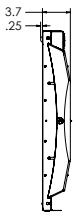




2X2







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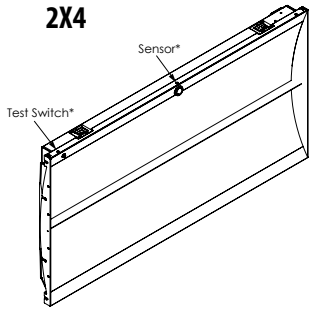
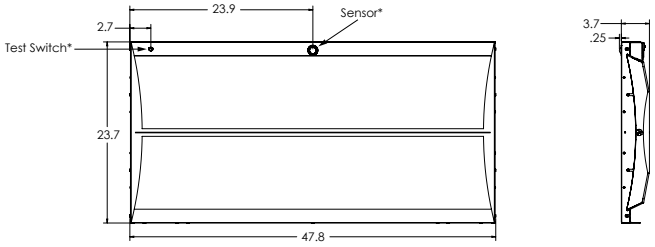
ENVX Spec Ambient

DIMENSIONS

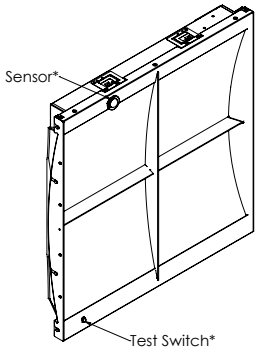
2X4

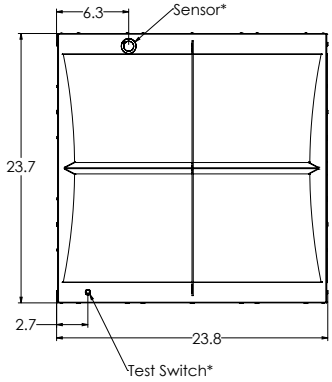




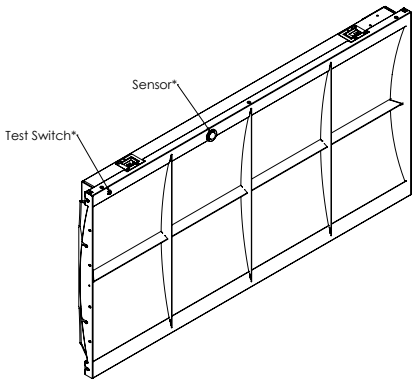
*Location when fixture is ordered with emergency battery or integral sensor

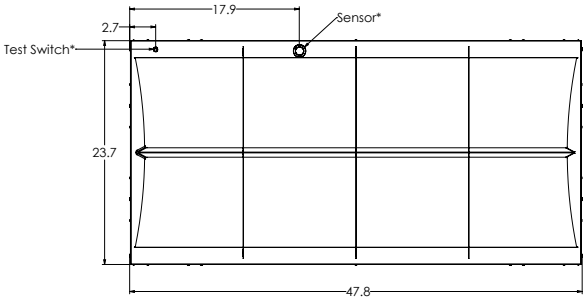
2X2





2X4





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ENVX Spec Ambient

UGR Values of ENVX 2x2 @ **80CRI** and 3500K (70% 50% 20% reflectance using a 4H x 8H room size)							UGR Values of ENVX 2x2 @ **90CRI** and 3500K (70% 50% 20% reflectance using a 4H x 8H room size)							
Lumen Package	HRG		HRGC		HRGL		Lumen Package	HRG		HRGC		HRGL	
	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise		Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise
2000LM	18.3	19	18.2	18.3	18.2	18.2	2000LM	17.8	18.4	17.7	17.8	17.7	17.7
3300LM	20.1	20.8	20.1	20.2	20	20.1	3300LM	19.6	20.3	19.6	19.7	19.5	19.6
4000LM	20.8	21.5	20.7	20.8	20.6	20.7	4000LM	20.3	21	20.2	20.3	20.1	20.2
4800LM	21.4	22.1	21.4	21.5	21.3	21.4	4800LM	20.9	21.6	20.8	21	20.7	20.9
*UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application.													

UGR Values of ENVX 2x4 @ **80CRI** and 3500K (70% 50% 20% reflectance using a 4H x 8H room size)							UGR Values of ENVX 2x4 @ **90CRI** and 3500K (70% 50% 20% reflectance using a 4H x 8H room size)							
Lumen Package	HRG		HRGC		HRGL		Lumen Package	HRG		HRGC		HRGL	
	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise		Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise
3000LM	17.2	17.9	17.1	17.2	17.1	17	3000LM	16.7	17.3	16.6	16.7	16.6	16.5
4000LM	18.3	19	18.4	18.6	18.4	18.4	4000LM	17.8	18.4	17.9	18	17.9	17.8
4800LM	18.8	19.5	18.9	19	18.9	18.8	4800LM	18.3	19	18.3	18.5	18.3	18.3
6000LM	19.6	20.3	19.6	19.7	19.6	19.5	6000LM	19.1	19.8	19	19.2	19	19
7200LM	20.1	20.8	20.4	20.5	20.4	20.3	7200LM	19.6	20.3	19.8	20	19.8	19.8
*UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application.													

COMMERCIAL INDOOR: One Lithonia Way Conyers, GA 30012 Phone: 800-705-SERV (7378) TechSupport-Lighting@Acuitybrands.com www.acuitybrands.com

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ENVX Spec Ambient

Performance Data			
Catalog Number	**Delivered Lumens**	**Input Watts**	**Lumens/Watt**
ENVX 1X4 HRG 1500LM 80CRI 35K	1516	12	125
ENVX 1X4 HRG 1500LM 90CRI 35K	1308	12	107
ENVX 1X4 HRG 2000LM 80CRI 35K	2097	17	127
ENVX 1X4 HRG 2000LM 90CRI 35K	1809	17	109
ENVX 1X4 HRG 3000LM 80CRI 35K	2948	24	125
ENVX 1X4 HRG 3000LM 90CRI 35K	2543	24	108
ENVX 1X4 HRG 4000LM 80CRI 35K	4169	33	125
ENVX 1X4 HRG 4000LM 90CRI 35K	3596	33	108
ENVX 1X4 HRG 4800LM 80CRI 35K	5019	41	123
ENVX 1X4 HRG 4800LM 90CRI 35K	4329	41	106
ENVX 1X4 HRG 6000LM 80CRI 35K	5785	51	114
ENVX 1X4 HRG 6000LM 90CRI 35K	4990	51	98
ENVX 1X4 HRGC 1500LM 80CRI 35K	1448	12	119
ENVX 1X4 HRGC 1500LM 90CRI 35K	1249	12	103
ENVX 1X4 HRGC 2000LM 80CRI 35K	1937	18	109
ENVX 1X4 HRGC 2000LM 90CRI 35K	1671	18	94
ENVX 1X4 HRGC 3000LM 80CRI 35K	2878	24	122
ENVX 1X4 HRGC 3000LM 90CRI 35K	2483	24	105
ENVX 1X4 HRGC 4000LM 80CRI 35K	3891	33	116
ENVX 1X4 HRGC 4000LM 90CRI 35K	3357	33	100
ENVX 1X4 HRGC 4800LM 80CRI 35K	4626	41	113
ENVX 1X4 HRGC 4800LM 90CRI 35K	3991	41	98
ENVX 1X4 HRGC 6000LM 80CRI 35K	6085	53	114
ENVX 1X4 HRGC 6000LM 90CRI 35K	5250	53	98
ENVX 1X4 HRG 7200LM 80CRI 35K	7601	65	117
ENVX 1X4 HRG 7200LM 90CRI 35K	6557	65	101
ENVX 1X4 HRGC 7200LM 80CRI 35K	7302	65	113
ENVX 1X4 HRGC 7200LM 90CRI 35K	6299	65	97
ENVX 2X2 HRG 2000LM 80CRI 35K	1994	17	115
ENVX 2X2 HRG 2000LM 90CRI 35K	1720	17	99
ENVX 2X2 HRG 3300LM 80CRI 35K	3411	30	114
ENVX 2X2 HRG 3300LM 90CRI 35K	2943	30	99
ENVX 2X2 HRG 4000LM 80CRI 35K	4112	36	113
ENVX 2X2 HRG 4000LM 90CRI 35K	3547	36	98
ENVX 2X2 HRG 4800LM 80CRI 35K	4943	45	109
ENVX 2X2 HRG 4800LM 90CRI 35K	4264	45	94
ENVX 2X2 HRGC 2000LM 80CRI 35K	1914	17	110
ENVX 2X2 HRGC 2000LM 90CRI 35K	1651	17	95
ENVX 2X2 HRGC 3300LM 80CRI 35K	3319	30	110
ENVX 2X2 HRGC 3300LM 90CRI 35K	2863	30	95
ENVX 2X2 HRGC 4000LM 80CRI 35K	3946	36	109
ENVX 2X2 HRGC 4000LM 90CRI 35K	3404	36	94
ENVX 2X2 HRGC 4800LM 80CRI 35K	4766	45	105
ENVX 2X2 HRGC 4800LM 90CRI 35K	4111	45	91
ENVX 2X4 HRG 3000LM 80CRI 35K	2933	23	126
ENVX 2X4 HRG 3000LM 90CRI 35K	2530	23	108
ENVX 2X4 HRG 4000LM 80CRI 35K	4036	33	122
ENVX 2X4 HRG 4000LM 90CRI 35K	3481	33	105
ENVX 2X4 HRG 4800LM 80CRI 35K	4748	40	117
ENVX 2X4 HRG 4800LM 90CRI 35K	4096	40	101
ENVX 2X4 HRG 6000LM 80CRI 35K	5908	50	117
ENVX 2X4 HRG 6000LM 90CRI 35K	5097	50	101
ENVX 2X4 HRG 7200LM 80CRI 35K	6831	58	118
ENVX 2X4 HRG 7200LM 90CRI 35K	5893	58	102
ENVX 2X4 HRGC 3000LM 80CRI 35K	2834	23	121
ENVX 2X4 HRGC 3000LM 90CRI 35K	2445	23	104
ENVX 2X4 HRGC 4000LM 80CRI 35K	4168	36	117
ENVX 2X4 HRGC 4000LM 90CRI 35K	3596	36	101
ENVX 2X4 HRGC 4800LM 80CRI 35K	4693	41	116
ENVX 2X4 HRGC 4800LM 90CRI 35K	4049	41	100
ENVX 2X4 HRGC 6000LM 80CRI 35K	5739	51	113
ENVX 2X4 HRGC 6000LM 90CRI 35K	4951	51	98
ENVX 2X4 HRGC 7200LM 80CRI 35K	7223	64	112
ENVX 2X4 HRGC 7200LM 90CRI 35K	6231	64	97
ENVX 2X2 HRGL 2000LM 80CRI 30K	1853	17	107

Performance Data			
Catalog Number	**Delivered Lumens**	**Input Watts**	**Lumens/Watt**
ENVX 2X2 HRGL 2000LM 80CRI 35K	1893	17	109
ENVX 2X2 HRGL 2000LM 80CRI 40K	1947	17	112
ENVX 2X2 HRGL 2000LM 80CRI 50K	1987	17	114
ENVX 2X2 HRGL 2000LM 90CRI 30K	1593	17	92
ENVX 2X2 HRGL 2000LM 90CRI 35K	1633	17	94
ENVX 2X2 HRGL 2000LM 90CRI 40K	1673	17	96
ENVX 2X2 HRGL 2000LM 90CRI 50K	1700	17	98
ENVX 2X2 HRGL 3300LM 80CRI 30K	3214	30	107
ENVX 2X2 HRGL 3300LM 80CRI 35K	3283	30	109
ENVX 2X2 HRGL 3300LM 80CRI 40K	3375	30	112
ENVX 2X2 HRGL 3300LM 80CRI 50K	3445	30	115
ENVX 2X2 HRGL 3300LM 90CRI 30K	2763	30	92
ENVX 2X2 HRGL 3300LM 90CRI 35K	2832	30	94
ENVX 2X2 HRGL 3300LM 90CRI 40K	2902	30	97
ENVX 2X2 HRGL 3300LM 90CRI 50K	2948	30	98
ENVX 2X2 HRGL 4000LM 80CRI 30K	3821	36	105
ENVX 2X2 HRGL 4000LM 80CRI 35K	3950	36	109
ENVX 2X2 HRGL 4000LM 80CRI 40K	4061	36	112
ENVX 2X2 HRGL 4000LM 80CRI 50K	4145	36	114
ENVX 2X2 HRGL 4000LM 90CRI 30K	3324	36	91
ENVX 2X2 HRGL 4000LM 90CRI 35K	3407	36	94
ENVX 2X2 HRGL 4000LM 90CRI 40K	3491	36	96
ENVX 2X2 HRGL 4000LM 90CRI 50K	3547	36	98
ENVX 2X2 HRGL 4800LM 80CRI 30K	4669	45	103
ENVX 2X2 HRGL 4800LM 80CRI 35K	4770	45	106
ENVX 2X2 HRGL 4800LM 80CRI 40K	4905	45	108
ENVX 2X2 HRGL 4800LM 80CRI 50K	5005	45	111
ENVX 2X2 HRGL 4800LM 90CRI 30K	4014	45	89
ENVX 2X2 HRGL 4800LM 90CRI 35K	4115	45	91
ENVX 2X2 HRGL 4800LM 90CRI 40K	4216	45	93
ENVX 2X2 HRGL 4800LM 90CRI 50K	4283	45	95
ENVX 2X4 HRGL 3000LM 80CRI 30K	2714	21	129
ENVX 2X4 HRGL 3000LM 80CRI 30K	2714	21	129
ENVX 2X4 HRGL 3000LM 80CRI 35K	2772	21	132
ENVX 2X4 HRGL 3000LM 80CRI 35K	2772	21	132
ENVX 2X4 HRGL 3000LM 80CRI 40K	2850	21	136
ENVX 2X4 HRGL 3000LM 80CRI 50K	2909	21	139
ENVX 2X4 HRGL 3000LM 90CRI 30K	2333	21	111
ENVX 2X4 HRGL 3000LM 90CRI 35K	2392	21	114
ENVX 2X4 HRGL 3000LM 90CRI 40K	2450	21	117
ENVX 2X4 HRGL 3000LM 90CRI 50K	2489	21	119
ENVX 2X4 HRGL 4000LM 80CRI 30K	3991	31	129
ENVX 2X4 HRGL 4000LM 80CRI 35K	4077	31	132
ENVX 2X4 HRGL 4000LM 80CRI 40K	4192	31	135
ENVX 2X4 HRGL 4000LM 80CRI 50K	4278	31	138
ENVX 2X4 HRGL 4000LM 90CRI 30K	3431	31	111
ENVX 2X4 HRGL 4000LM 90CRI 35K	3517	31	113
ENVX 2X4 HRGL 4000LM 90CRI 40K	3603	31	116
ENVX 2X4 HRGL 4000LM 90CRI 50K	3661	31	118
ENVX 2X4 HRGL 4800LM 80CRI 30K	4493	38	118
ENVX 2X4 HRGL 4800LM 80CRI 35K	4590	38	121
ENVX 2X4 HRGL 4800LM 80CRI 40K	4720	38	124
ENVX 2X4 HRGL 4800LM 80CRI 50K	4817	38	127
ENVX 2X4 HRGL 4800LM 90CRI 30K	3863	38	102
ENVX 2X4 HRGL 4800LM 90CRI 35K	3960	38	104
ENVX 2X4 HRGL 4800LM 90CRI 40K	4057	38	107
ENVX 2X4 HRGL 4800LM 90CRI 50K	4122	38	108
ENVX 2X4 HRGL 6000LM 80CRI 30K	5495	47	117
ENVX 2X4 HRGL 6000LM 80CRI 35K	5613	47	119
ENVX 2X4 HRGL 6000LM 80CRI 40K	5771	47	123
ENVX 2X4 HRGL 6000LM 80CRI 50K	5890	47	125
ENVX 2X4 HRGL 6000LM 90CRI 30K	4724	47	101
ENVX 2X4 HRGL 6000LM 90CRI 35K	4843	47	103
ENVX 2X4 HRGL 6000LM 90CRI 40K	4961	47	106
ENVX 2X4 HRGL 6000LM 90CRI 50K	5040	47	107

	Emergency Battery Estimated Lumens	Use the formula below to estimate the delivered lumens in emergency mode		
		Estimated Lumens = 1.25 x P x LPW	**P** = Output power of emergency driver (10W for PS1055CP)	**LPW** = Lumen per watt rating of the luminaire.

Interface Engineering
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Spec Guide

RaceRail | Table Arm | 107

Red List Approved
Declare.

Task lighting for table, workstation, and carrel desk applications.

RaceRail: direct or indirect, 370° rotation.

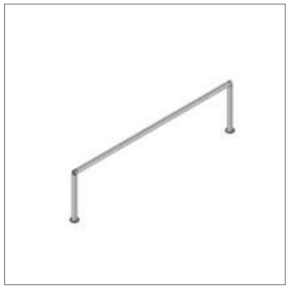
Benefits & Features

Super Slim, Adaptive Design
Round profile, Ø1.12 in.

Superior Light Quality & Performance
Output up to 1507 lm/ft (HO), 132 lm/W (HO). 90 CRI static & tunable white 2200K - 5000K. Custom ranges available upon request.

High Performance Optics
Break through Batwing lens designed for excellent fixture to fixture spacing.

Better Optics & Beam Control Options
Batwing, FlyWing, and diffuse lens available. Directional control with 370° rotation, angle gauge and lock.



Arm Anchor®

Arm Anchor, Double Rail with Tee

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Build Your Specification

107-RR				TA	18 ▸▸
System & Rail Type	Single/Double Rail	System Length	Rail Length	Mounting	Arm Length

System & Rail Type
107-RR RaceRail

Single/Double Rail
01 Single Rail
03 Double Rail with 3" (76mm) Tee
06 Double Rail with 6" (152mm) Tee
12 Double Rail with 12" (305mm) Tee
ZZ Other (please specify)

System Length
Specify overall system length in ft/in or M/mm.
Corner and Shapes Available ***See Guide*** *for details.*

Rail Length
24 24" (610mm)
36 36" (914mm)
48 48" (1219mm)
60 60" (1524mm)
ZZ Other rail length or layout (please specify)
See ***Rail Length Chart*** *for more details.*
⚠ ***Custom lengths may result in light gaps on the fixture. See Rail Length Chart for more details.***

Mounting
TA Table Arm

Arm Length
18 18" arm (457mm)
ZZ Other (please specify) [1]

▸▸			0 ▸▸
Power Location	Power Type	Voltage	Emergency Power

Power Location
Remote Power
Specify mounting and harness length code example: **2T25, 2T50**...etc.

Mounting Option
2T Arm Anchor

Wire Harness
10 10' (3.048m) Wire Harness
25 25' (7.62m) Wire Harness
50 50' (15.24m) Wire Harness
75 75' (22.86m) Wire Harness
100 100' (30.48m) Wire Harness

Power Type
Flexible 1 to 1 Power
AE 0-10V, 1.0% Dimming
AT 0-10V, 0.1% Dimming
AD DALI, 0.1% Dimming
AX DMX, 100-0% Dimming
AH Hi-lume 1% EcoSystem, Soft On / Fade to Black Technology, LDE[1]
AH2 ELV 1% 2-wire (Forward and Reverse Phase) [5]

Optimized Power
Add '**O**' to power type example: AE**O**, AT**O**...etc. [2]

VodeNODE
Add '**N**' to power type for Flexible 1 to 1 Power
Add '**ON**' to power type for Optimized Power example: AE**N**, AT**N**, AE**ON**, AD**ON**...etc. [3]

ZZ Other (please specify)

See ***Power Guide*** *for driver features & limitations.*

Voltage
1 120V
2 120V - 277V
X Not Yet Specified

Emergency Power
0 No Emergency Power
ZZ Emergency Power *(specify requirements)*

▸▸ Z				0
LED Type	Lumen Output	Color Temperature	Optics	Sensors

LED Type
Z Zipper Board

Lumen Output
LO Low Output
SO Standard Output
HO High Output
ZZ Other (please specify)
See ***IES Files*** *page for details.*
See ***Power Guide*** *for driver features & limitations.*

Color Temperature
90+ CRI
27 2700K
30 3000K
35 3500K
40 4000K
ZZ Tunable White Available ***See Guide*** for details.

Optics
Zipper Board (Z)
2 Diffuse, round
G1 120° Batwing
G2 120° FlyWing

Sensors
0 None
ZZ Sensor *(specify requirements)*

▸▸	
Finish	Options

Finish
AL Clear Anodized
WH White Powder Coat
BL Black Anodized
ZZ Other (please specify)

Options
0 None
1 On/Off Switch [4]
9 9' 18/3 Cord and Plug
CPP Chicago Plenum Power

Standard 5 Year Limited Warranty. See details ***here****. Contact factory for options on Limited Warranties up to 20 years.*

NOTES & LIMITATIONS
[1] *Arm lengths >48" not recommended.*
[2] *Optimized Power is not available with Hi-lume 1% EcoSystem (AHO) Power Type.*
[3] *VodeNODE enclosure is not available with ELV 1% 2-wire (AH2) Power Type.*
[4] *One On/Off Switch per LED Driver.*
[5] *Lengths of 24" and shorter are not supported due to driver limitations. Daisy chaining multiple fixtures to achieve minimum load is permitted but may introduce installation complexity—consult factory for layout guidance.*

Listed to UL standards for damp location by a Nationally Recognized Testing Laboratory (NRTL) recognized by OSHA. Certain limitations exist for each Certification. Contact factory for verification.

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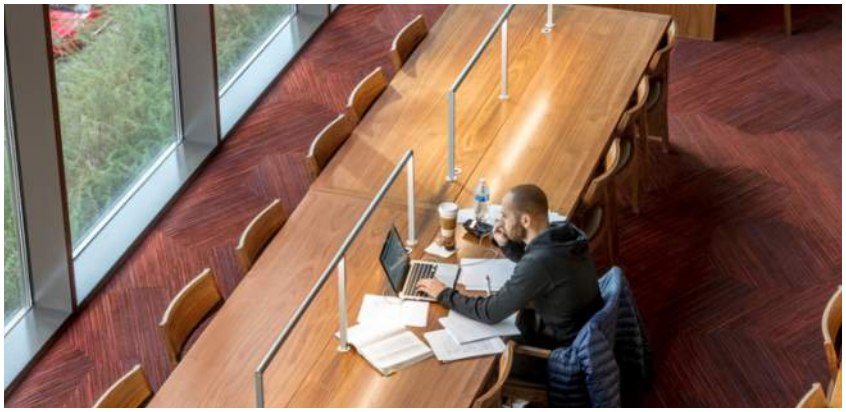
www.interfaceengineering.com

Applications

Corporate, Educational, and Library

Arizona State University, Phoenix, AZ



Arizona State University, Phoenix, AZ

Sustainability & Certifications

DECLARE

International Living Future Institute (ILFI)

All Vode Lighting linear light fixtures proudly carry the Red List Approved designation.

BAA X BABA

Buy American Act / Build America & Buy America Act Compliance

Vode is dedicated to supporting domestic manufacturing and ensuring compliance with BAA and BABA requirements.

Given the complexity of our products, we recommend reaching out to **vodecares@vode.com** for confirmation regarding compliance for your specific project.

BAA BABA

Click here to learn more: ***US Department of Commerce***

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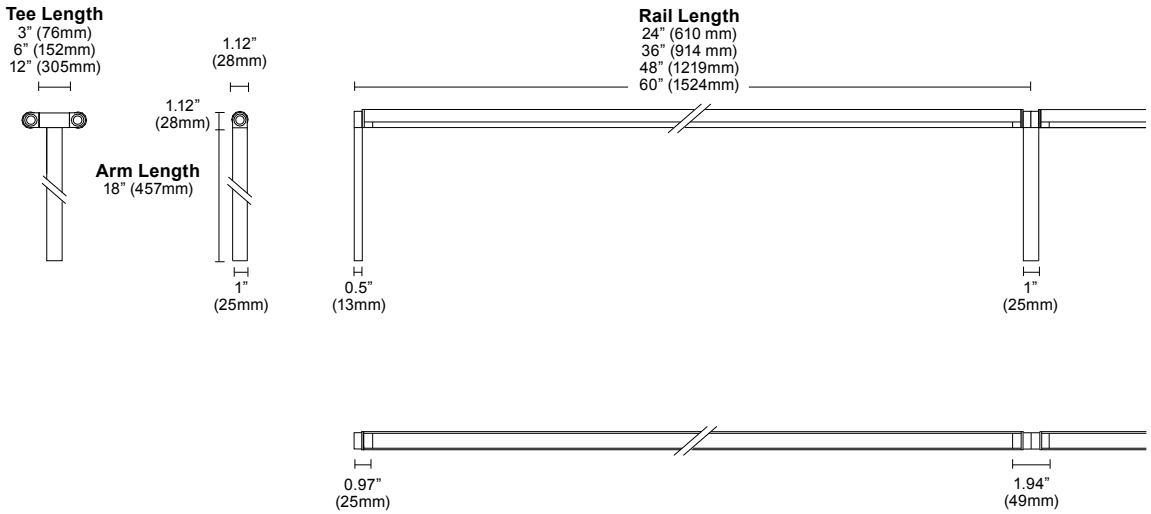
Structure

Rail Lengths	24" (610mm) - 60" (1524mm). Modified lengths available. *See **Rail Length Chart** for more details.*
Rail Dimensions	Ø1.12" (28mm) x length.
Construction	Extruded and machined 6063 aluminum.
Mounting	Table mount to Arm Anchor®.
Arm Length	18" (457mm). Non-standard arm lengths available. Arm lengths >48" (1219mm) not recommended.
System Run Length	24" (610mm) minimum. Unlimited maximum.
Operating Temperature	32°F to 104°F (0°C to 40°C).
Humidity	0-85%, non-condensing.
Weight	0.88lbs per ft (0.40kg per 305 mm) Power supply and housing not included.

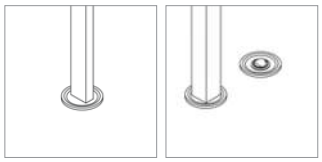
Materials

LED Board Construction	Aluminum core PCB, black LCP connectors, RoHS compliant.
Lens	High-impact extruded acrylic glass (PMMA).
Power Cable	Ø4mm, 18/2 AWG, Plenum (CMP) rated semi-rigid PVC or FEP, flame tested UL-910 *(PVC free in 2020).*
Cable Connectors	Unfilled black nylon, rated UL 94 V-0, halogen free, PVC or FEP overmold, RoHS compliant *(PVC free in 2020).*
Remote Linear Power Housing (RLP)	20.7" x 2.375" x 2.53", 0.054" formed Galvanized Steel.
Remote Brick Power Housing (RBP)	4.32" x 3.37" x .078" Galvanized Steel mounting plate.

Dimensions



Mounting Options



Arm Anchor
h0.1" (3mm)
Ø2" (51mm)

On Off Switch
(optional)

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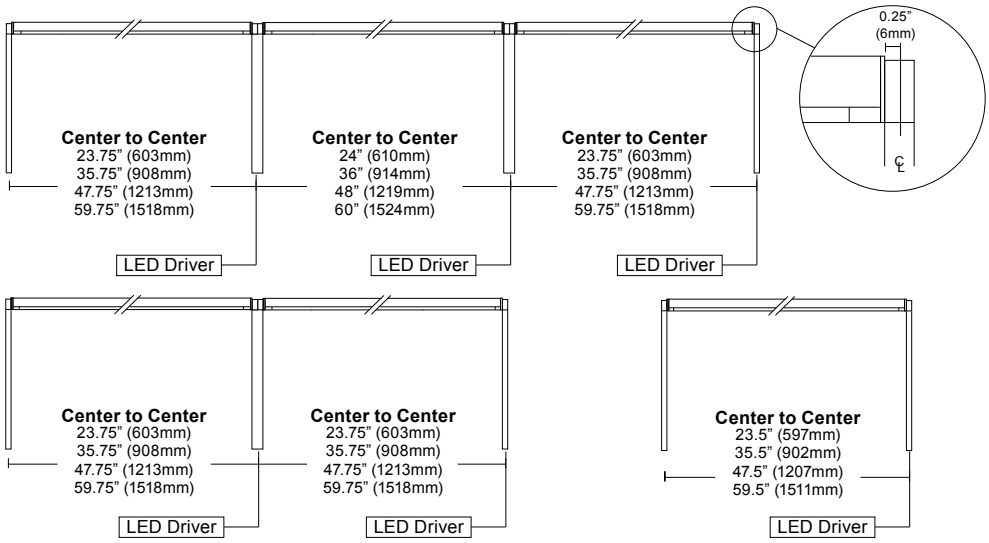
Layout



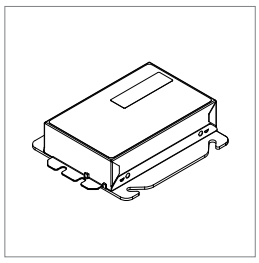
Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape, ZigZag) ***See Guide*** *for details.*

Power and Controls

Power Type	Class 2 (<60V output) constant current driver.
Dimming Controls	Dimming (0.1%, 1%), 0-10V, DALI, DMX, Hi-lume 1% are available. *See* ***Power Guide*** *for details.*
Input Voltage	120V - 277V, 50/60hz.
Power Location	Remote power. Maximum remote distance up to 100' (30.5m) *depending* on driver selection. *See* ***Power Guide*** *for details.*

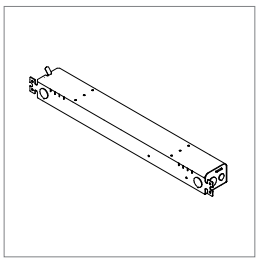
Remote power is locating the power supply away from the fixture. Remote power comes in two housing styles: brick style and linear style. Consult ***Power Guide*** to determine which type you will receive.

Remote Brick Power Housing



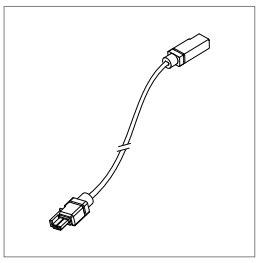
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in^3 (J-Box not provided).
See ***Tech Sheet*** for details.

Remote Linear Power Housing



One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies.
See ***Tech Sheet*** for details.

Wire Harness



Wire harness connects driver to rail section. Lengths of 10' (3.0m) & 25' (7.6m) with snap-lock connectors for quick and easy installation. Multiple harnesses may be combined for lengths up to 100' (30.5m).
See ***Tech Sheet*** for details.

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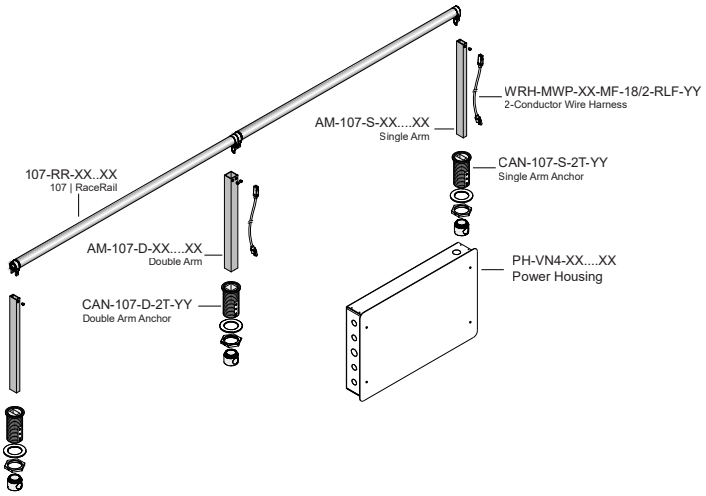
Power and Controls

Flexible 1 to 1 power

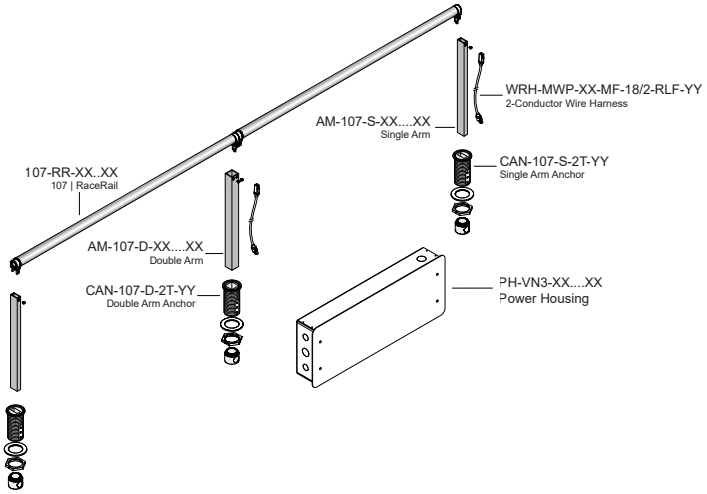
For Flexible 1 to 1 Power, Vode supplies one single output driver per fixture, allowing each fixture to be controlled independently. Direct/Indirect fixtures are supplied with two single output drivers, allowing the direct and indirect lighting to be controlled independently. Consult ***Power Guide*** to determine which type you will receive.



Optimized Power

To optimize power, Vode configures specifications with drivers that have 2 or 4 outputs. Depending on system configurations and power requirements, up to 4 fixtures can be powered from a 4-output driver. Consult ***Power Guide*** to determine which type you will receive.

IMPORTANT: Each fixture will still require individual wire harnesses, as shown below.



Note: Drawings not to scale, for reference only.

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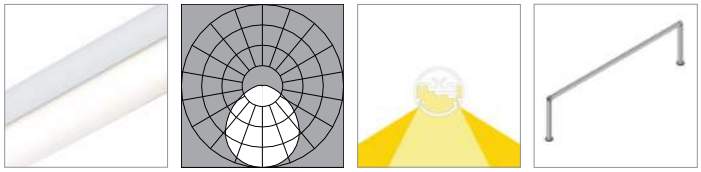
Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

Diffuse, round (2)



L80 >60,000 hours

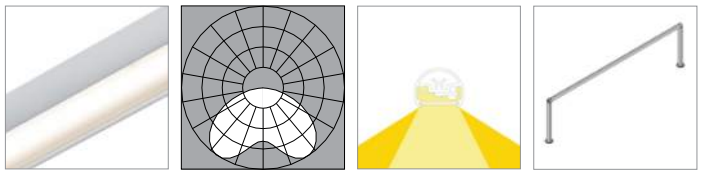
90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	109	112	114	115
Lumens per foot (305mm)	373	385	392	396
Watts per foot (305mm)	3.5	3.5	3.5	3.5

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	125	129	132	133
Lumens per foot (305mm)	746	769	785	793
Watts per foot (305mm)	6.0	6.0	6.0	6.0

High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	116	120	122	123
Lumens per foot (305mm)	1416	1461	1491	1506
Watts per foot (305mm)	12.3	12.3	12.3	12.3

120° Batwing (G1)



L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	85	87	89	90
Lumens per foot (305mm)	315	325	332	335
Watts per foot (305mm)	3.8	3.8	3.8	3.8

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	106	109	111	112
Lumens per foot (305mm)	630	650	663	670
Watts per foot (305mm)	6.0	6.0	6.0	6.0

High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	104
Lumens per foot (305mm)	1197	1235	1260	1273
Watts per foot (305mm)	12.4	12.4	12.4	12.4

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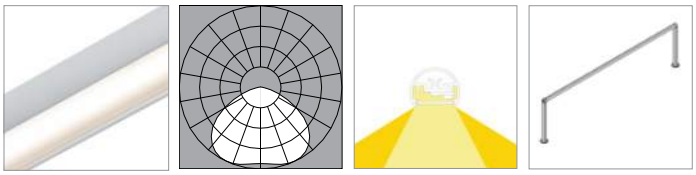
Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

120° FlyWing (G2)



L80 is >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	93	96	98	99
Lumens per foot (305mm)	319	329	336	339
Watts per foot (305mm)	3.5	3.5	3.5	3.5

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	107	110	113	114
Lumens per foot (305mm)	639	659	672	679
Watts per foot (305mm)	6.0	6.0	6.0	6.0

High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	99	103	105	106
Lumens per foot (305mm)	1213	1252	1277	1290
Watts per foot (305mm)	12.3	12.3	12.3	12.3

Patent Marking

This website (https://www.lmpg.com/patents-trademarks) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here. To learn more, visit https://www.vode.com/about/legal

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TRACE

BROWNLEE

5200 LED

At just 1.25" dia., TRACE incorporates Brownlee's slimmest luminaire profile to date. Intended for bathroom vanity applications, hallways, lobbies, and more, this series is available in three center-mount sizes (1', 2', 3' - Model #: 5200) as well as an offset sconce mount (1' size). - Model #: 1250). Subtle aesthetic, big performance, high quality construction.

FINISHES

BN BL BZ WH MG

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TRACE

PROJECT:	
MODEL #:	
FIXTURE TYPE:	

STANDARD SPECIFICATIONS

FIXTURE ASSEMBLY
Ultra compact 1.25" dia. profile. Assembly is comprised of an aluminum extrusion with die-cast aluminum end caps and a spun aluminum canopy. No visible hardware other than a single set-screw on the canopy, strategically located behind extruded profile. High-quality extruded frosted acrylic diffuser. UV stabilized.

LED PERFORMANCE
3500K standard, 90+ CRI - L80 rating - 60,000 hrs - L70 rating (projected) - 100,000 hrs
Amperage rated @ 110V input. Operating ambient temperature: -20°C / -4°F - 40°C / 104°F
Delivered 3500K lumens noted. Consult Brownlee.com for performance of all CCTs.

13" Size
H09: 9W nominal, 0.08A input – 840 lm. Dimmable (0-10V). 120-277V.

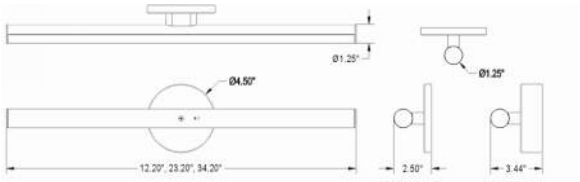
23" Size
H09: 9W nominal, 0.08A input – 850 lm. Dimmable (0-10V). 120-277V.
H16: 16W nominal, 0.13A input – 1475 lm. Dimmable (0-10V). 120-277V.

34" Size
H16: 16W nominal, 0.13A input – 1490 lm. Dimmable (0-10V). 120-277V.
H25: 25W nominal, 0.19A input – 2220 lm. Dimmable (0-10V). 120-277V.

MOUNTING
Fixture mounts to a 4" x 1.5" deep* octagonal j-box (not included - by others).
**Driver stored in j-box as a standard offering. 1.5" minimum depth j-box required. Refer to Options section for Extended Canopy (EXT) if driver cannot be mounted in j-box.* Fixture assembly ships pre-assembled for simplified installation.
Indoors only. For a sconce profile, refer to Model #: 1250.

FINISH
Electroplated brushed nickel is the standard finish.
Optional finishes available (non-returnable).

WARRANTY
5 year limited warranty on this LED product. Consult factory for details.



STANDARD
Driver located inside of 4" x 1.5" d octagonal j-box (by others).

EXT Option
Driver mounts inside of canopy – refer to Options section.

DAMP · ADA · SUPPORTS T24 COMPLIANCE · RoHS COMPLIANT ELECTRONICS

ORDERING INFORMATION

5200 - _____ - _____ - _____ - _____ - _____

Model | 2. | 3. | 4. | 5. | 6. (if required)

2. SIZE

13	L: 12.25"
24	L: 23.25"
35	L: 34.25"

*NOTE:
Refer to model #: 1250 for a coordinating wall sconce.

3. FINISH

STANDARD
BN Brushed Nickel

OPTIONAL
BL Black
BZ Bronze
MG Metallic Gold
WH White

Note: Optional finishes are non-returnable.

4. WATTAGE

13 SIZE
H09 9W H Series LED

24 SIZE
H09 9W H Series LED
H16 16W H Series LED

35 SIZE
H16 16W H Series LED
H25 25W H Series LED

5. COLOR TEMPERATURE

35K 3500K standard color temperature
30K 3000K color temperature
40K 4000K color temperature

Note: 27K available, contact factory, non-returnable.

6. AVAILABLE OPTIONS

EXT Extended Canopy (Driver In Canopy)
Canopy dimensions: 4.5" dia. x 1.5" d
Total fixture depth: 3.5" d
DTR[4] Triac (Line Voltage) Dimming (120V)
FCL[7] French Canadian Labels
T24[9] Title 24 JA8 Compliant (H16 & H25 only)

Universal Footnotes (only applies if superscript is shown in Options section): (0) 90R - All LEDs/CCTs are being transitioned to 90 CRI standard over 2025. Inquire for this model's availability. **1) BAC/BAB** - www.brownlee.com/resources/usa. **(2) BBI/BBC** - cannot combine with ECW or EXT. **(3) BLD** - integral microwave motion sensor (step-dim). Cannot combine with DTR. **(4) DTR** - cannot combine with BLD. **(5) ECW** - cannot combine with BBI, BBC, or DTR. **(7) FCL** - cannot combine with BAC. **(8) OCC** - integral microwave motion sensor (ON/OFF). **(9) T24** - includes JA8 labeling and 90 CRI LEDs. **(10) PCH/PC4** - cannot combine with BLD or OCC.
Add'l Notes: *BBI/BBC - BBI minimum operating temp: 10C/50F unless otherwise stated. BBC minimum operating temp: -20C/-4F.
****BLD** - integral microwave motion sensor with step-dim control. 1: Motion is detected, illuminate to 100%.
2: Motion no longer detected, dim to set level. 3: Remain in continuous dimmed state or turn off after set period. Config. via onboard dip switches.

Specifications subject to change without notice.

BROWNLEE LIGHTING
www.brownlee.com

REVISED
2024.12.20

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BEACON
design . performance . technology

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

VIPER Area/Site

VIPER LUMINAIRE

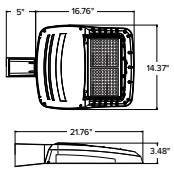
MICRO STRIKE | SILICONE STRIKE | OPTICS STRIKE

FEATURES

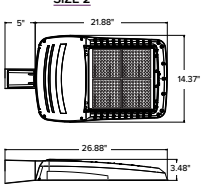
- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, LightGRID+ and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

c UL us IP65 IP66 IK10 | DLC LISTED | DLC LISTED PREMIUM | ida DARK SKY APPROVED 2016 | BAA | TAA

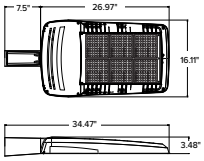
SIZE 1



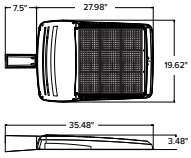
SIZE 2



SIZE 3



SIZE 4



CONTROL TECHNOLOGY

NX CONNECT | NX WIRED | NX WIRELESS | LIGHTGRID+

SERVICE PROGRAMS

STOCK | QS10

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Silicone Strike Optics (40, 80, 120, or 180 LED counts) maximize uniformity in applications and provides the highest LPW. These include an integral gasket allowing for IP66 rating. Catalog logic found on page 4.
- All optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles
- All mounting hardware included

INSTALLATION (CONTINUED)

- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater that 20ft, a vibration damper is recommended

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40˚C to 40˚C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/ IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V Dimming Drivers are standard. Select CD option to have dimming leads extended outside the luminaire. Must specify if wiring leads are to be greater than the 6" standard.

	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

CONTROLS (CONTINUED)

- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to http://www.designlights.org for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated with Strike and Microstrike optics. Fixture is IP66 rated with Silicone Strike optics.
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to https://www.currentlighting.com/resources/america-solutions).
- FCC CFR Title 47 Part 15, Class A
- IK10 (Silicone Strike Optics Only)

WARRANTY

- 5 year warranty

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VIPER Area/Site

VIPER LUMINAIRE

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

SILICONE STRIKE OPTIC – ORDERING GUIDE

Example: VP-SS-1-40L-75-4K7-4W-UNV-ASQU-BLT

CATALOG #

VP –

Series	Optic Platform	Size	Light Engine	CCT/CRI	Distribution	Optic Rotation	Voltage
VP Viper	**SS** Strike Silicone	**1** Size 1	**40L-35** 35W, 5,500 Lumens	**22K7** 2200K, 70 CRI	**2** Type 2	**BLANK** No Rotation	**UNV** 120-277V
			40L-50 50W, 7,500 Lumens	**27K7** 2700K, 70 CRI	**3** Type 3	**L** Optic rotation left	**120** 120V
			40L-65 65W, 10,000 Lumens	**27K8** 2700K, 80 CRI	**4W** Type 4 Wide	**R** Optic rotation right	**208** 208V
			40L-80 80W, 12,500 Lumens	**3K7** 3000K, 70 CRI	**4F** Type 4 Forward		**240** 240V
			40L-100 100W, 15,000 Lumens	**3K8** 3000K, 80 CRI	**5QM** Type 5 Square Medium		**277** 277V
			40L-120 120W, 17,500 Lumens	**35K8** 3500K, 80 CRI	**5QW** Type 5 Square Wide		**347** 347V
			40L-140 140W, 20,000 Lumens	**4K7** 4000K, 70 CRI			**480** 480V
			40L-170 170W, 22,500 Lumens	**4K8** 4000K, 80 CRI			
			40L-195 195W, 25,000 Lumens	**5K7** 5000K, 70 CRI			
		2 Size 2	**80L-75** 75W, 12,500 Lumens	**5K8** 5000K, 80 CRI			
			80L-90 90W, 15,000 Lumens				
			80L-105 105W, 17,500 Lumens				
			80L-130 130W, 21,000 Lumens				
			80L-155 155W, 24,000 Lumens				
			80L-175 175W, 27,000 Lumens				
			80L-205 205W, 30,000 Lumens				
			80L-225 225W, 33,000 Lumens				
			80L-250 250W, 36,000 Lumens				
			80L-280 280W, 40,000 Lumens				
		3 Size 3	**120L-190** 190W, 30,000 Lumens				
			120L-205 205W, 33,000 Lumens				
			120L-230 230W, 36,000 Lumens				
			120L-265 265W, 40,000 Lumens				
			120L-295 295W, 44,000 Lumens				
			120L-320 320W, 48,000 Lumens				
			120L-355 355W, 52,000 Lumens				
			120L-380 380W, 55,000 Lumens				
			120L-420 420W, 60,000 Lumens				
		4 Size 4	**180L-275** 275W, 44,000 Lumens				
			180L-295 295W, 48,000 Lumens				
			180L-335 335W, 52,000 Lumens				
			180L-360 360W, 55,000 Lumens				
			180L-395 395W, 60,000 Lumens				
			180L-435 435W, 65,000 Lumens				
			180L-470 470W, 70,000 Lumens				
			180L-510 510W, 75,000 Lumens				
			180L-550 550W, 80,000 Lumens				

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VIPER LUMINAIRE

SILICONE STRIKE OPTIC – ORDERING GUIDE (CONTINUED)

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Mounting	
A	Arm mount for square pole/flat surface
A_	Arm mount for round pole [3]
ASQU	Universal arm mount for square pole
A_U	Universal arm mount for round pole [3]
AAU	Adjustable arm for pole mounting (universal drill pattern)
AA_U	Adjustable arm mount for round pole [3]
ADU	Decorative upswept Arm (universal drill pattern)
AD_U	Decorative upswept arm mount for round pole [3]
MAF	Mast arm fitter for 2-3/8" OD horizontal arm
K	Knuckle
T	Trunnion
WB	Wall Bracket, horizontal tenon with MAF
WM	Wall mount bracket with decorative upswept arm
WA	Wall mount bracket with adjustable arm

Color	
BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
LGT	Light Grey Gloss Textured
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured
Color Option	
CC	Custom Color

Options	
BC	Backlight Control (3%)
MBC	Max Backlight Control (1.5%)
LCC	Left Corner Control
RCC	Right Corner Control
F	Fusing
E	Battery Backup [1,2,7,8,9]
2PF	Dual Power Feed
2DR	Dual Driver
TE	Tooless Entry
TB	Terminal Block
CD	Customer Dimming
LS	Lumen Switch

Network Control Options	
NXWS16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,4,5]
NXWS40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,4,5]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [4,5]
WIR	LightGRID+ In-Fixture Module [4,5]
WIRSC	LightGRID+ Module and Occupancy Sensor [4,5]
Stand Alone Sensors	
BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens [13]
BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming® Photocell and 360° Lens [13]
BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens [13]
7PR	7-Pin Receptacle [4]
7PR-SC	7-Pin Receptacle with shorting cap [4]
7PR-TL	7-Pin PCR with photocontrol
3PR	3-Pin twist lock [4]
3PR-SC	3-Pin receptacle with shorting cap [4]
3PR-TL	3-Pin PCR with photocontrol [4]
Programmed Controls	
SCP-_F	Sensor Control Programmable, 8F or 40F [11]
ADD	AutoDim Timer Based Dimming [12]
ADT	AutoDim Time of Day Dimming [12]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Battery temperature rating -20C to 55C
3 – Replace "_" with "3" for 2.75"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
4 – Networked Controls cannot be combined with other control options
5 – Not available with 2PF option
6 – Not available with 480V
7 – Not available with 347 or 480V
8 – Not available with Dual Driver option
9 – Only available in Size 1 housing, up to 105 Watts
10 – Some voltage restrictions may apply when combined with controls
11 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
12 - Please refer to page 8 for AutoDim ordering guide
13 - BTSO and BTS are only compatible at 50W or greater.

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VIPER LUMINAIRE

MICROSTRIKE OPTICS – ORDERING GUIDE

Gray Shading = Service Program Limit of 15 luminaires QS10

Example: VP–2–320L-145–3K7–2–R–UNV–A3–BLT

CATALOG #

VP –

Series	Optic Platform	Size	Light Engine		CCT/CRI		Distribution		Optic Rotation		Voltage	
VP Viper	Micro Strike	**1** Size 1	**160L-35** [6]	5500 lumens	**AP**	AP-Amber Phosphor Converted	**2**	Type 2	**BLANK** No Rotation		**UNV**	120-277V
			160L-50 [6]	7500 lumens	**27K8**	2700K, 80 CRI	**3**	Type 3	**L**	Optic rotation left	**120**	120V
			160L-75	10000 lumens	**3K7**	3000K, 70 CRI	**4F**	Type 4 Forward	**R**	Optic rotation right	**208**	208V
			160L-100	12500 lumens	**3K8**	3000K, 80 CRI	**4W**	Type 4 Wide			**240**	240V
			160L-115	15000 lumens	**35K8**	3500K, 80 CRI	**5QW**	Type 5 Square Wide			**277**	277V
			160L-135	18000 lumens	**3K9**	3000K, 90 CRI					**347**	347V
			160L-160	21000 lumens	**4K7**	4000K, 70 CRI					**480**	480V
		2 Size 2	**320L-145**	21000 lumens	**4K8**	4000K, 80 CRI						
			320L-170	24000 lumens	**4K9**	4000K, 90 CRI						
			320L-185	27000 lumens	**5K7**	5000K, 70 CRI						
			320L-210	30000 lumens	**5K8**	5000K, 80 CRI						
			320L-235	33000 lumens								
			320L-255	36000 lumens								
			320L-315 [6]	40000 lumens								
		3 Size 3	**480L-285**	40000 lumens								
			480L-320	44000 lumens								
			480L-340	48000 lumens								
			480L-390	52000 lumens								
			480L-425	55000 lumens								
			480L-470	60000 lumens								
		4 Size 4	**720L-435**	60000 lumens								
			720L-475	65000 lumens								
			720L-515	70000 lumens								
			720L-565 [6]	75000 lumens								
			720L-600 [6]	80000 lumens								
			CLO	Custom Lumen Output [1]								

Mounting		Color		Options		Network Control Options	
A	Arm mount for square pole/flat surface (B3 Drill Pattern) (Does not include round pole adapter)	**BLT**	Black Matte Textured	**F**	Fusing	**NXWS16F**	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
A_	Arm mount for round pole [2]	**BLS**	Black Gloss Smooth	**2PF**	Dual Power Feed	**NXWS40F**	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
ASQU	Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern	**DBT**	Dark Bronze Matte Textured	**2DR**	Dual Driver	**NXW**	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
A_U	Universal arm mount for round pole [2]	**DBS**	Dark Bronze Gloss Smooth	**TE**	Tooless Entry	**WIR**	LightGRID+ In-Fixture Module [3,4]
AAU	Adjustable arm for pole mounting (universal drill pattern)	**GTT**	Graphite Matte Textured	**BC**	Backlight Control [8]	**WIRSC**	LightGRID+ Module and Occupancy Sensor [3,4]
AA_U	Adjustable arm mount for round pole [2]	**LGS**	Light Grey Gloss Smooth	**TB**	Terminal Block	**Stand Alone Sensors**	
ADU	Decorative upswept Arm (universal drill pattern)	**LGT**	Light Grey Gloss Textured	**CD**	Customer Dimming	**BTS-14F**	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
AD_U	Decorative upswept arm mount for round pole [2]	**PSS**	Platinum Silver Smooth			**BTS-40F**	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
MAF	Mast arm fitter for 2-3/8" OD horizontal arm	**WHT**	White Matte Textured			**BTSO-12F**	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
K	Knuckle	**WHS**	White Gloss Smooth			**7PR**	7-Pin Receptacle [4]
T	Trunnion	**VGT**	Verde Green Textured			**7PR-SC**	7-Pin Receptacle with shorting cap [4]
WB	Wall Bracket, horizontal tenon with MAF	**Color Option**				**7PR-TL**	7-Pin PCR with photocontrol
WM	Wall mount bracket with decorative upswept arm	**CC**	Custom Color			**3PR**	3-Pin twist lock [4]
WA	Wall mount bracket with adjustable arm					**3PR-SC**	3-Pin receptacle with shorting cap [4]
						3PR-TL	3-Pin PCR with photocontrol [4]
						Programmed Controls	
						SCP-_F	Sensor Control Programmable, 8F or 40F [9]
						ADD	AutoDim Timer Based Dimming [10]
						ADT	AutoDim Time of Day Dimming [10]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Replace "_" with "3" for 2.75"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
3 – Networked Controls cannot be combined with other control options
4 – Not available with 2PF option
5 – Not available with Dual Driver option
6 – Some voltage restrictions may apply when combined with controls
7 – Not available with 480V
8 – BC not available on 4F and type 5 distributions
9 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
10 - Please refer to page 8 for AutoDim ordering guide

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STRIKE OPTIC – ORDERING GUIDE

Example: VP–ST–1–36L-39–3K7–2–UNV–A–BLT

CATALOG # _____

VP	–		–		–		–		–		–		–	
Series		**Optic Platform**		**Size**		**Light Engine**		**CCT/CRI**		**Distribution**		**Optic Rotation**		**Voltage**
VP Viper		**ST** Strike		**1** Size 1		**36L-39** [8] 5500 lumens		**AM** monochromatic amber, 595nm		**FR** Auto Front Row		**BLANK** No Rotation		**UNV** 120-277V
						36L-55 [8] 7500 lumens		**27K8** 2700K, 80 CRI		**2** Type 2		**L** Optic rotation left		**120** 120V
						36L-85 10000 lumens		**3K7** 3000K, 70 CRI		**3** Type 3		**R** Optic rotation right		**208** 208V
						36L-105 12500 lumens		**3K8** 3000K, 80 CRI		**4F** Type 4 Forward				**240** 240V
						36L-120 14000 lumens		**3K9** 3000K, 90 CRI		**4W** Type 4 Wide				**277** 277V
				2 Size 2		**72L-115** 15000 lumens		**35K8** 3500K, 80 CRI		**5QN** Type 5 Square Narrow				**347** 347V
						72L-145 18000 lumens		**4K7** 4000K, 70 CRI		**5QW** Type 5 Square Wide				**480** 480V
						72L-180 21000 lumens		**4K8** 4000K, 80 CRI		**5QM** Type 5 Square Medium				
						72L-210 24000 lumens		**4K9** 4000K, 90 CRI		**5W** Type 5 Wide (Round)				
						72L-240 27000 lumens		**5K7** 5000K, 70 CRI		**5RW** Type 5 Rectangular				
				3 Size 3		**108L-215** [8] 27000 lumens		**5K8** 5000K, 80 CRI		**C** Corner Optic				
						108L-250 30000 lumens				**TC** Tennis Court Optic				
						108L-280 33000 lumens								
						108L-325 36000 lumens								
						108L-365 40000 lumens								
				4 Size 4		**162L-320** 40000 lumens								
						162L-365 [10] 44000 lumens								
						162L-405 48000 lumens								
						162L-445 52000 lumens								
						162L-485 55000 lumens								
						162L-545 [8] 60000 lumens								
						CLO Custom Lumen Output [1]								

	–		–		–		–
Mounting		**Color**		**Options**		**Network Control Options**	
A Arm mount for square pole/flat surface		**BLT** Black Matte Textured		**F** Fusing		**NXWS16F** NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,4,5]	
A_ Arm mount for round pole [3]		**BLS** Black Gloss Smooth		**E** Battery Backup [1,2,7,8,9]		**NXWS40F** NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,4,5]	
ASQU Universal arm mount for square pole		**DBT** Dark Bronze Matte Textured		**2PF** Dual Power Feed		**NXW** NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [4,5]	
A_U Universal arm mount for round pole [3]		**DBS** Dark Bronze Gloss Smooth		**2DR** Dual Driver		**WIR** LightGRID+ In-Fixture Module [4,5]	
AAU Adjustable arm for pole mounting (universal drill pattern)		**GTT** Graphite Matte Textured		**TE** Tooless Entry		**WIRSC** LightGRID+ Module and Occupancy Sensor [4,5]	
AA_U Adjustable arm mount for round pole [3]		**LGS** Light Grey Gloss Smooth		**BC** Backlight Control		**Stand Alone Sensors**	
ADU Decorative upswept Arm (universal drill pattern)		**LGT** Light Grey Gloss Textured		**TB** Terminal Block		**BTS-14F** Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	
AD_U Decorative upswept arm mount for round pole [3]		**PSS** Platinum Silver Smooth		**CD** Customer Dimming		**BTS-40F** Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming® Photocell and 360° Lens	
MAF Mast arm fitter for 2-3/8" OD horizontal arm		**WHT** White Matte Textured				**BTSO-12F** Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	
K Knuckle		**WHS** White Gloss Smooth				**7PR** 7-Pin Receptacle [4]	
T Trunnion		**VGT** Verde Green Textured				**7PR-SC** 7-Pin Receptacle with shorting cap [4]	
WB Wall Bracket, horizontal tenon with MAF		**Color Option**				**7PR-TL** 7-Pin PCR with photocontrol	
WM Wall mount bracket with decorative upswept arm		**CC** Custom Color				**3PR** 3-Pin twist lock [4]	
WA Wall mount bracket with adjustable arm						**3PR-SC** 3-Pin receptacle with shorting cap [4]	
						3PR-TL 3-Pin PCR with photocontrol [4]	
						Programmed Controls	
						SCP-_F Sensor Control Programmable, 8F or 40F [11]	
						ADD AutoDim Timer Based Dimming [12]	
						ADT AutoDim Time of Day Dimming [12]	

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6 – Not available with 480V
7 – Not available with 347 or 480V
8 – Not available with Dual Driver option
9 – Only available in Size 1 housing, up to 105 Watts
10 – Some voltage restrictions may apply when combined with controls
11 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
12 - Please refer to page 8 for AutoDim ordering guide

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ORDERING GUIDE (CONT'D)

CATALOG # _____

Accessory Type		Size		Option		Color	
SHD	House Side Shield	**1**	Size 1	**HSS-90-B**	House Side Shield 90° Back	**BLS**	Black Gloss Smooth
		2	Size 2	**HSS-90-F**	House Side Shield 90° Front	**BLT**	Black Matte Textured
		3	Size 3	**HSS-90-S**	House Side Shield 90° Side	**DBS**	Dark Bronze Gloss Smooth
		4	Size 4	**HSS-270-BSS**	House Side Shield 270° Back/Side/Side	**DBT**	Dark Bronze Matte Textured
				HSS-270-FSS	House Side Shield 270° Front/Side/Side	**GTT**	Graphite Matte Textured
				HSS-270-FSB	House Side Shield 270° Front/Side/Back	**LGS**	Light Gray Gloss Smooth
				HSS-360	House Side Shield 360°	**PSS**	Platinum Silver Smooth
				BC	Back Light Control	**WHS**	White Gloss Smooth
MTG	Mounting			**A**	Arm Mount for square pole/flat surface	**WHT**	White Matte Textured
				ASQU	Universal Arm Mount for square pole	**VGT**	Green Landscape Decorative
				AAU	Adjustable Arm for pole mounting	**LEG**	Legacy Colors
				ADU	Decorative upswept Arm	**Color Option**	
				RPA	Round Pole Adapter	**CC**	Custom Color
				MAF	Mast Arm Fitter for 2-3/8" OD horizontal arm		
				K	Knuckle		
				T	Trunnion		
				WB	Wall Bracket (compatible with universal arm mounts)		

Accessory Type		Option	
MSC	Miscellaneous	**BIRD SPK**	Bird Spike

Current Control Solutions — Accessories (Sold Separately)

NX Lighting Controls

☐ **NXOFM2-1R1D-UNV** — On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with NX Radio and Bluetooth® Radio, 120–480VAC

LightGRID+ Lighting Control

☐ **WIR-RME-L** — On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with LightGRID+ Radio, 110–480VAC

☐ **SCP-REMOTE** — Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor

For additional information related to these accessories please visit currentlighting.com/beacon. Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

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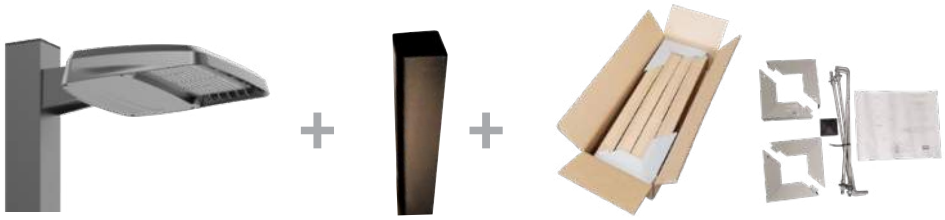
VIPER POLE EXPRESS COMBO – ORDERING GUIDE



Catalog Number	Pole	Single or Double Head	Fixture	Lumens*	Wattage	Distribution	CCT/CRI	Mounting	Finish
VP-1-160-4K-3-LS-S20	**20' Square Straight Steel**	Single	**VP-1-160-4K-3-LS**	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-3-LS-S20-2X	**20' Square Straight Steel**	Double	**VP-1-160-4K-3-LS**	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S20	**20' Square Straight Steel**	Single	**VP-1-160-4K-4F-LS**	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S20-2X	**20' Square Straight Steel**	Double	**VP-1-160-4K-4F-LS**	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-3-LS-S25	**25' Square Straight Steel**	Single	**VP-1-160-4K-3-LS**	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-3-LS-S25-2X	**25' Square Straight Steel**	Double	**VP-1-160-4K-3-LS**	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S25	**25' Square Straight Steel**	Single	**VP-1-160-4K-4F-LS**	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S25-2X	**25' Square Straight Steel**	Double	**VP-1-160-4K-4F-LS**	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S20	**20' Square Straight Steel**	Single	**VP-1-160-5K-3-LS**	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S20-2X	**20' Square Straight Steel**	Double	**VP-1-160-5K-3-LS**	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S20	**20' Square Straight Steel**	Single	**VP-1-160-5K-4F-LS**	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S20-2X	**20' Square Straight Steel**	Double	**VP-1-160-5K-4F-LS**	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S25	**25' Square Straight Steel**	Single	**VP-1-160-5K-3-LS**	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S25-2X	**25' Square Straight Steel**	Double	**VP-1-160-5K-3-LS**	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S25	**25' Square Straight Steel**	Single	**VP-1-160-5K-4F-LS**	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S25-2X	**25' Square Straight Steel**	Double	**VP-1-160-5K-4F-LS**	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured

VIPER POLE EXPRESS COMBO – STOCK LUMINAIRE SKUS

Catalog Number	Lumens	LPW	Distribution	Wattage	CCT/CRI	Voltage	Mounting	Finish
VP-1-160-4K-3-LS	19584	123.9	3	158W	4000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured
VP-1-160-4K-4F-LS	19426	122.9	4F	158W	4000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured
VP-1-160-5K-3-LS	19499	123.4	3	158W	5000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured
VP-1-160-5K-4F-LS	19186	121.4	4F	158W	5000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured

VIPER POLE EXPRESS COMBO – ACCESSORIES

Catalog Number	Description
VM14DB	Vibration Dampener, mounts to top of pole for reduced vibration

VM14DB

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OUTDOOR LIGHTING CONTROLS OPTIONS

CONTROLS FUNCTIONALITY

LIGHTGRID+

	Control Option Ordering Logic & Description		Control Option Functionality									Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height		
NX Wireless	NXOFM2-1R1D-UNV	NX 7-Pin Twist-Lock® with NX Networked Wireless Radio, Integral Automatic Dimming Photocell, Integral Single Pole Relay with Dimming, and Bluetooth Programming	✓	✓	✓	Paired with external control	✓	✓	✓	✓	–		NXOFM-1R1D-UV
	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	–	–	✓	✓	✓	–		NXRM2-H
	NXWS12F	NX Networked Wireless Enabled Integral NXSMP2-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	12ft		NXSMP2-OMNI-O
	NXWS16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
	NXWS40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO
LightGRID+	WIR	LightGRID+ In-Fixture Module	✓	–	✓	–	–	✓	✓	Gateway	–		WIR
	WIR-RME-L	LightGRID+ On Fixture Module	✓	–	✓	–	–	✓	✓	Gateway	–		WIR-RME-L
	WIRSC	LightGRID+ Module and Occupancy Sensor	✓	✓	✓	✓	✓	✓	✓	Gateway	14ft - 40ft		BTMSP
Independent	BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	12ft		BTSMP-OMNI-O
	BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	14ft		BTSMP-LMO
	BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	40ft		BTSMP-HMO

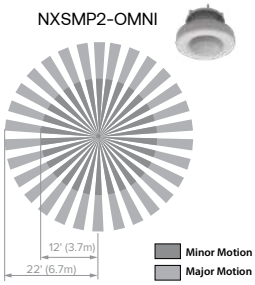
DEFAULT SETTINGS

NX Wireless	
Occupancy Sensor	Enabled
Occupancy Sensor Sensitivity	7
Occupancy Sensor Timeout	15 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	0%
Daylight Sensor	Disabled
Bluetooth	Enabled
2.4GHz Wireless Mesh	On
"Passcode Factory Passcode: HubbN3T!"	Enabled

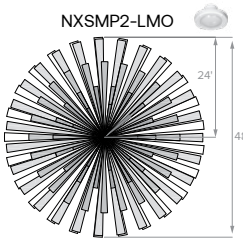
Stand Alone	
Occupancy Sensor	Enabled
Occupancy Sensor Sensitivity	7
Occupancy Sensor Timeout	8 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	50%
Daylight Sensor	Disabled

NX WIRELESS COVERAGE PATTERNS

NXSMP2-OMNI

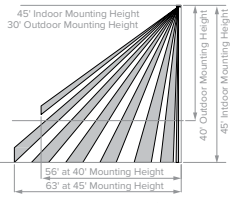


NXSMP2-LMO



Sensor Lens Coverage and Detection Patterns When Mounted at 8ft with Low Mount Lens

NXSMP2-HMO



Sensor Lens Coverage and Detection Patterns When Mounted at 40ft and 45ft with Standard Lens

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NX LIGHTING CONTROLS FREE APP

CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)

The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminiares and program NX system settings.

Apple App: https://apps.apple.com/us/app/nx-lighting-controls/id962112904

Google Play: https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&gl=US

Apple App

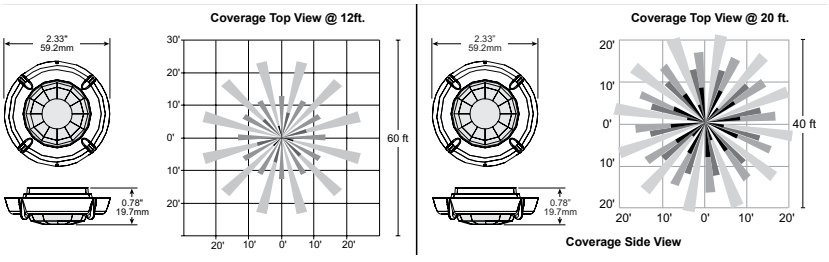
Google Play

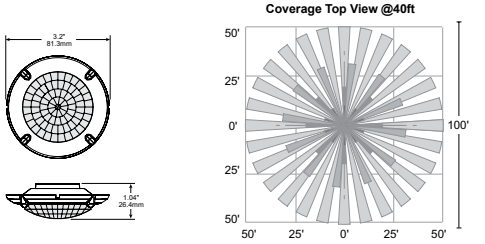
OUTDOOR LIGHTING CONTROLS OPTIONS

CONTROLS FUNCTIONALITY

	Control Option Ordering Logic & Description		Control Option Functionality									Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height		
Independent	SCP_F	Sensor Control Programmable, 8F or 40F	–	–	–	✓	✓	✓	✓	–	8ft or 40ft		SCP_F
	ADD	AutoDIM Timer Based Dimming	–	–	✓	–	–	–	✓	–	–		ADD
	ADT	AutoDIM Time of Day Dimming	–	–	✓	–	–	–	✓	–	–		ADT
	7PR	7-Pin Receptacle	–	–	Paired with external control	–	Paired with external control	–	Paired with external control	–	–		7PR
	7PR-SC	7-Pin Receptacle with shorting cap	–	–	–	–	–	–	–	–	–		7PR-SC
	3PR	3-Pin twist lock	–	–	–	–	–	–	Paired with external control	–	–		3PR
	3PR-SC	3-Pin Receptacle with shorting cap	–	–	–	–	–	–	–	–	–		3PR-SC
	3PR-TL	3-Pin with photocontrol	–	–	–	–	✓	–	✓	–	–		3PR-TL

COVERAGE PATTERNS FOR SCP_F





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VIPER LUMINAIRE

PROGRAMMED CONTROLS

ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6 - Delay 6 hours
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50% brightness
Auto-Dim Return	Delay 0-9 Hours	R6 - Return to full output after 6 hours

ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6 - Dim at 6PM
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50%
Auto-Dim Return	12-6 AM and 9-11P	R6 - Return to full output at 6AM

ORDERING GUIDE

Auto Dim Code	Timer Base (ADD) Auto-Dim Options		Auto Dim Cod	Time of Day (ADT) Auto-Dim Options
D1	Delay 1 hour		T0	Delay Midnight
D2	Delay 2 hours		T1	Delay 1 AM
D3	Delay 3 hours		T2	Delay 2 AM
D4	Delay 4 hours		T3	Delay 3 AM
D5	Delay 5 hours	OR	T4	Delay 10 PM
D6	Delay 6 hours		T5	Delay 11 PM
D7	Delay 7 hours		T6	Delay 6 PM
D8	Delay 8 hours		T7	Delay 7 PM
D9	Delay 9 hours		T8	Delay 8 PM
D0	Delay 0 hours		T9	Delay 9 PM

Code	Auto-Dim Brightness
0	100% Brightness
1	10% Brightness
2	20% Brightness
3	30% Brightness
4	40% Brightness
5	50% Brightness
6	60% Brightness
7	70% Brightness
8	80% Brightness
9	90% Brightness

Code	Auto-Dim Return Options
R1	Delay 1 hour or 1 AM
R2	Delay 2 hours or 2 AM
R3	Delay 3 hours or 3 AM
R4	Delay 4 hours or 4 AM
R5	Delay 5 hours or 5 AM
R6	Delay 6 hours or 6 AM
R7	Delay 7 hours or 7 AM
R8	Delay 8 hours or 8 AM
R9	Delay 9 hours or 9 AM
R0	Delay 0 hours or 12 AM

Code	Auto-Dim Brightness
0	100% Brightness
1	10% Brightness
2	20% Brightness
3	30% Brightness
4	40% Brightness
5	50% Brightness
6	60% Brightness
7	70% Brightness
8	80% Brightness
9	90% Brightness

DELIVERED LUMENS

For delivered lumens, please see Lumens Data PDF on www.Currentlighting.com

PROJECTED LUMEN MAINTENANCE

Ambient Temp.	0	25,000	*TM-21-11 36,000	50,000	100,000	Calculated L_{70} (Hours)
25°C / 77°F	1.00	0.97	0.96	0.95	0.91	408,000
40°C / 104°F	0.99	0.96	0.95	0.94	0.89	356,000

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Micro Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	–	0.841	–
3000K	0.977	0.861	0.647
3500K	–	0.900	–
4000K	1	0.926	0.699
5000K	1	0.937	0.791
AP-Amber Phosphor Converted Multiplier			
Amber	0.710		

Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	0.9	0.81	0.62
3000K	0.933	0.853	0.659
3500K	0.959	0.894	0.711
4000K	1	0.9	0.732
5000K	1	0.9	0.732
Monochromatic Amber Multiplier			
Amber	See Amber Spec Sheet		

Silicone Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2200K	0.811	–	–
2700K	0.906	0.774	–
3000K	0.943	0.868	–
3500K	–	0.868	–
4000K	1	0.906	–
5000K	1	0.906	–

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ELECTRICAL DATA: MICRO STRIKE

# OF LEDS	160						
NOMINAL WATTAGE	35	50	75	100	115	135	160
SYSTEM POWER (W)	34.9	50.5	72.1	97.2	111.9	132.2	157.8
INPUT VOLTAGE (V)	CURRENT (Amps)						
120	0.29	0.42	0.63	0.83	0.96	1.13	1.33
208	0.17	0.24	0.36	0.48	0.55	0.65	0.77
240	0.15	0.21	0.31	0.42	0.48	0.56	0.67
277	0.13	0.18	0.27	0.36	0.42	0.49	0.58
347	0.10	0.14	0.22	0.29	0.33	0.39	0.46
480	0.07	0.10	0.16	0.21	0.24	0.28	0.33

# OF LEDS	320						
NOMINAL WATTAGE	145	170	185	210	235	255	315
SYSTEM POWER (W)	150	166.8	185.7	216.2	240.9	261.5	312
INPUT VOLTAGE (V)	CURRENT (Amps)						
120	1.21	1.42	1.54	1.75	1.96	2.13	2.63
208	0.70	0.82	0.89	1.01	1.13	1.23	1.51
240	0.60	0.71	0.77	0.88	0.98	1.06	1.31
277	0.52	0.61	0.67	0.76	0.85	0.92	1.14
347	0.42	0.49	0.53	0.61	0.68	0.73	0.91
480	0.30	0.35	0.39	0.44	0.49	0.53	0.66

# OF LEDS	480					
NOMINAL WATTAGE	285	320	340	390	425	470
SYSTEM POWER (W)	286.2	316.7	338.4	392.2	423.2	468
INPUT VOLTAGE (V)	CURRENT (Amps)					
120	2.38	2.67	2.83	3.25	3.54	3.92
208	1.37	1.54	1.63	1.88	2.04	2.26
240	1.19	1.33	1.42	1.63	1.77	1.96
277	1.03	1.16	1.23	1.41	1.53	1.70
347	0.82	0.92	0.98	1.12	1.22	1.35
480	0.59	0.67	0.71	0.81	0.89	0.98

# OF LEDS	720				
NOMINAL WATTAGE	435	475	515	565	600
SYSTEM POWER (W)	429.3	475	519.1	565.2	599.9
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	3.63	3.96	4.29	4.71	5.00
208	2.09	2.28	2.48	2.72	2.88
240	1.81	1.98	2.15	2.35	2.50
277	1.57	1.71	1.86	2.04	2.17
347	1.25	1.37	1.48	1.63	1.73
480	0.91	0.99	1.07	1.18	1.25

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ELECTRICAL DATA: STRIKE

# OF LEDS	36				
NOMINAL WATTAGE	39	55	85	105	120
SYSTEM POWER (W)	39.6	56.8	83.6	108.2	120.9
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	0.33	0.46	0.71	0.88	0.96
208	0.19	0.26	0.41	0.50	0.55
240	0.16	0.23	0.35	0.44	0.48
277	0.14	0.20	0.31	0.38	0.42
347	0.11	0.16	0.24	0.30	0.33
480	0.08	0.11	0.18	0.22	0.24

# OF LEDS	72				
NOMINAL WATTAGE	115	145	180	210	240
SYSTEM POWER (W)	113.7	143.2	179.4	210.2	241.7
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	1.00	1.21	1.50	1.75	1.79
208	0.58	0.70	0.87	1.01	1.03
240	0.50	0.60	0.75	0.88	0.90
277	0.43	0.52	0.65	0.76	0.78
347	0.35	0.42	0.52	0.61	0.62
480	0.25	0.30	0.38	0.44	0.45

# OF LEDS	108				
NOMINAL WATTAGE	215	250	280	325	365
SYSTEM POWER (W)	214.8	250.8	278.3	324.7	362.6
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	2.00	2.08	2.33	3.04	2.67
208	1.15	1.20	1.35	1.75	1.54
240	1.00	1.04	1.17	1.52	1.33
277	0.87	0.90	1.01	1.32	1.16
347	0.69	0.72	0.81	1.05	0.92
480	0.50	0.52	0.58	0.76	0.67

# OF LEDS		162				
NOMINAL WATTAGE	320	365	405	445	485	545
SYSTEM POWER (W)	322.1	362.6	403.6	445.1	487.1	543.9
INPUT VOLTAGE (V)		CURRENT (Amps)				
120	2.71	2.67	3.38	3.71	4.04	4.54
208	1.56	1.54	1.95	2.14	2.33	2.62
240	1.35	1.33	1.69	1.85	2.02	2.27
277	1.17	1.16	1.46	1.61	1.75	1.97
347	0.94	0.92	1.17	1.28	1.40	1.57
480	0.68	0.67	0.84	0.93	1.01	1.14

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ELECTRICAL DATA: SILICONE STRIKE

# OF LEDS	40								
NOMINAL WATTAGE (W)	35	55	65	80	100	120	140	170	195
SYSTEM POWER (W)	34.4	47.4	63.3	82.2	101.7	121.6	141.4	168.8	193.0
INPUT VOLTAGE (V)	CURRENT (A)								
120	0.29	0.40	0.53	0.69	0.85	1.01	1.18	1.41	1.61
208	0.17	0.23	0.30	0.40	0.49	0.58	0.68	0.81	0.93
240	0.14	0.20	0.26	0.34	0.42	0.51	0.59	0.70	0.80
277	0.12	0.17	0.23	0.30	0.37	0.44	0.51	0.61	0.70
347	0.10	0.14	0.18	0.24	0.29	0.35	0.41	0.49	0.56
480	0.07	0.10	0.13	0.17	0.21	0.25	0.29	0.35	0.40

# OF LEDS	80									
NOMINAL WATTAGE (W)	75	90	105	130	155	175	205	225	250	280
SYSTEM POWER (W)	74.0	87.0	105.3	131.9	153.5	175.4	203.4	226.1	249.0	281.0
INPUT VOLTAGE (V)	CURRENT (A)									
120	0.62	0.73	0.88	1.10	1.28	1.46	1.70	1.88	2.08	2.34
208	0.36	0.42	0.51	0.63	0.74	0.84	0.98	1.09	1.20	1.35
240	0.31	0.36	0.44	0.55	0.64	0.73	0.85	0.94	1.04	1.17
277	0.27	0.31	0.38	0.48	0.55	0.63	0.73	0.82	0.90	1.01
347	0.36	0.42	0.51	0.63	0.74	0.84	0.98	1.09	1.20	1.35
480	0.15	0.18	0.22	0.27	0.32	0.37	0.42	0.47	0.52	0.59

# OF LEDS	120								
NOMINAL WATTAGE (W)	190	205	230	265	295	320	355	380	420
SYSTEM POWER (W)	189.8	206.0	230.3	263.2	296.5	322.0	356.3	382.3	421.6
INPUT VOLTAGE (V)	CURRENT (A)								
120	1.58	1.72	1.92	2.19	2.47	2.68	2.97	3.19	3.51
208	0.91	0.99	1.11	1.27	1.43	1.55	1.71	1.84	2.03
240	0.79	0.86	0.96	1.10	1.24	1.34	1.48	1.59	1.76
277	0.69	0.74	0.83	0.95	1.07	1.16	1.29	1.38	1.52
347	0.55	0.59	0.66	0.76	0.85	0.93	1.03	1.10	1.21
480	0.40	0.43	0.48	0.55	0.62	0.67	0.74	0.80	0.88

# OF LEDS	180								
NOMINAL WATTAGE (W)	275	295	335	360	395	435	470	510	550
SYSTEM POWER (W)	272.7	296.8	333.2	357.8	394.7	432.4	470.2	508.7	547.4
INPUT VOLTAGE (V)	CURRENT (A)								
120	2.27	2.47	2.78	2.98	3.29	3.60	3.92	4.24	4.56
208	1.31	1.43	1.60	1.72	1.90	2.08	2.26	2.45	2.63
240	1.14	1.24	1.39	1.49	1.64	1.80	1.96	2.12	2.28
277	0.98	1.07	1.20	1.29	1.42	1.56	1.70	1.84	1.98
347	0.79	0.86	0.96	1.03	1.14	1.25	1.36	1.47	1.58
480	0.57	0.62	0.69	0.75	0.82	0.90	0.98	1.06	1.14

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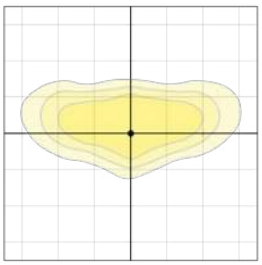
TYPE: PROJECT:

CATALOG #:

SILICONE OPTIC STRIKE PHOTOMETRY

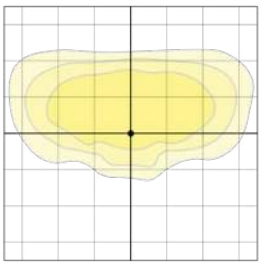
The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see website photometric test reports.

Type 2



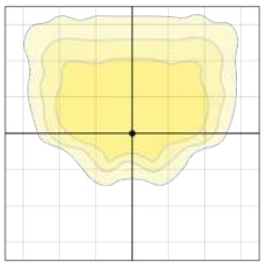
Mounting Height: 20 ft
Scale: 1 inch = 25 ft

Type 3



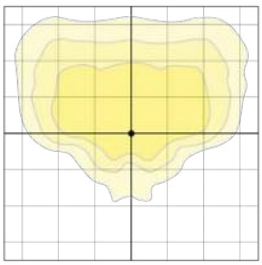
Mounting Height: 20 ft
Scale: 1 inch = 25 ft

Type 4 Forward



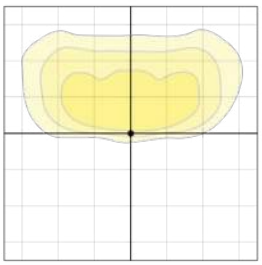
Mounting Height: 20 ft
Scale: 1 inch = 25 ft

Type 4 Wide



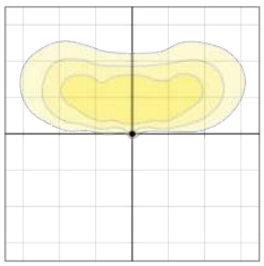
Mounting Height: 20 ft
Scale: 1 inch = 25 ft

Type 4WBC



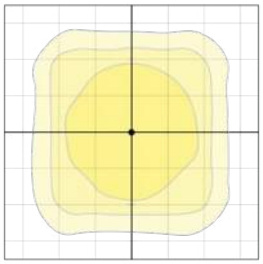
Mounting Height: 20 ft
Scale: 1 inch = 25 ft

Type 4WMBC



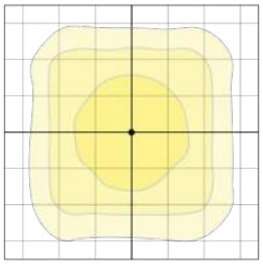
Mounting Height: 20 ft
Scale: 1 inch = 25 ft

Type 5QM



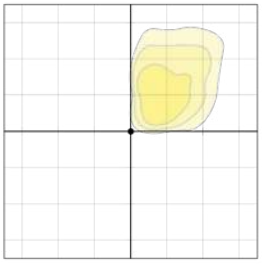
Mounting Height: 20 ft
Scale: 1 inch = 25 ft

Type 5QW



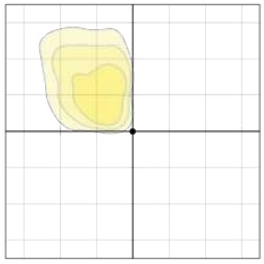
Mounting Height: 20 ft
Scale: 1 inch = 25 ft

Type LCC



Mounting Height: 20 ft
Scale: 1 inch = 25 ft

Type RCC



Mounting Height: 20 ft
Scale: 1 inch = 25 ft

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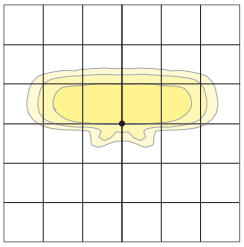
MICRO STRIKE PHOTOMETRY

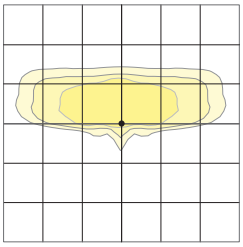
The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see website photometric test reports.

Type 2



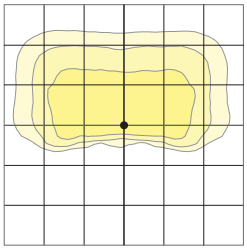
Mounting Height: 20 ft
Scale: 1 inch = 20 ft

Type 3



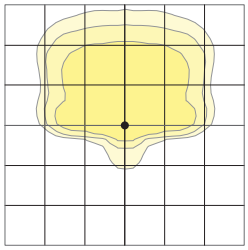
Mounting Height: 20 ft
Scale: 1 inch = 20 ft

Type 4 Wide



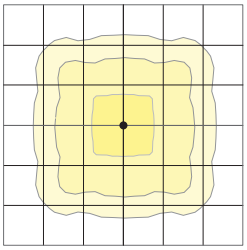
Mounting Height: 20 ft
Scale: 1 inch = 20 ft

Type 4F



Mounting Height: 20 ft
Scale: 1 inch = 20 ft

Type 5QW



Mounting Height: 20 ft
Scale: 1 inch = 20 ft

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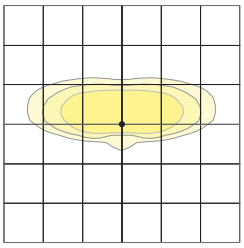
OPTIC STRIKE PHOTOMETRY

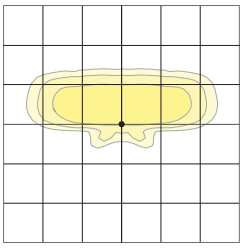
The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see website photometric test reports.

Type FR – Front Row/Auto Optic



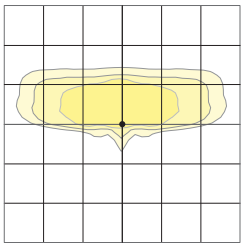
Mounting Height: 20 ft
Scale: 1 inch = 20 ft

Type 2



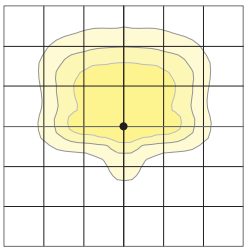
Mounting Height: 20 ft
Scale: 1 inch = 20 ft

Type 3



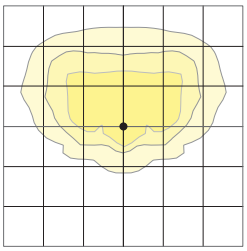
Mounting Height: 20 ft
Scale: 1 inch = 20 ft

Type 4 Forward



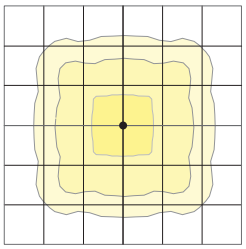
Mounting Height: 20 ft
Scale: 1 inch = 20 ft

Type 4 Wide



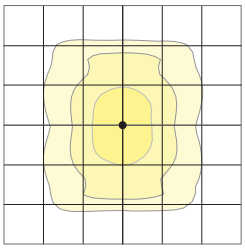
Mounting Height: 20 ft
Scale: 1 inch = 20 ft

Type 5QM



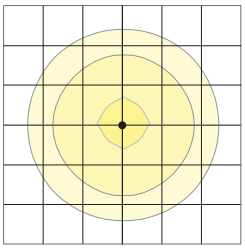
Mounting Height: 20 ft
Scale: 1 inch = 20 ft

Type 5RW (rectangular)



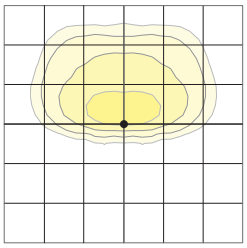
Mounting Height: 20 ft
Scale: 1 inch = 20 ft

Type 5W (round wide)



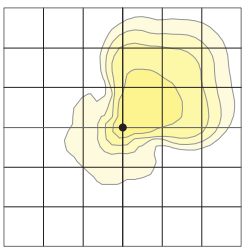
Mounting Height: 20 ft
Scale: 1 inch = 20 ft

Type TC



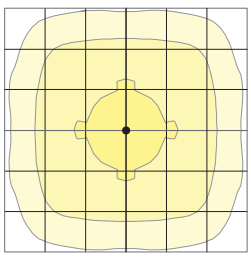
Mounting Height: 20 ft
Scale: 1 inch = 20 ft

Type Corner



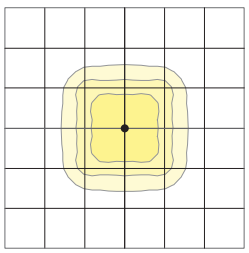
Mounting Height: 20 ft
Scale: 1 inch = 20 ft

Type 5QW



Mounting Height: 20 ft
Scale: 1 inch = 20 ft

Type 5QN



Mounting Height: 20 ft
Scale: 1 inch = 20 ft

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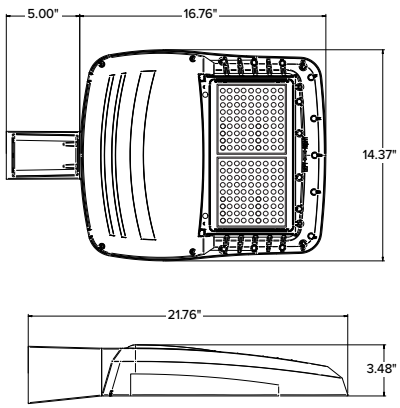
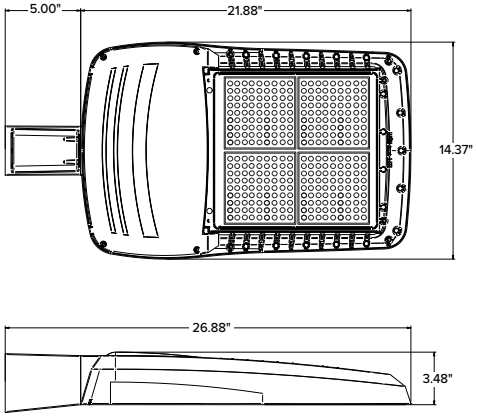
DIMENSIONS

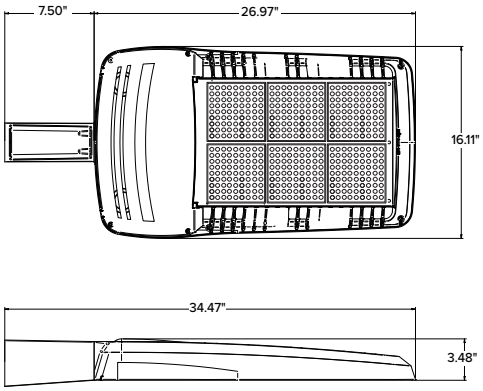
SIZE 1



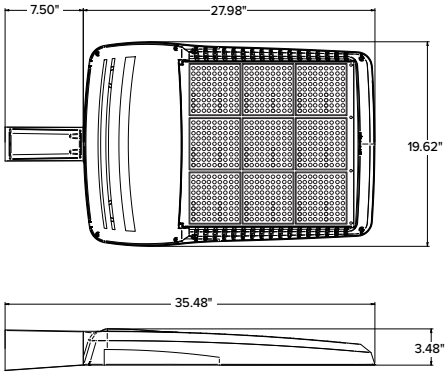
SIZE 2



SIZE 3



SIZE 4



	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

	Weight	
	lbs	kgs
VP1 (Size 1)	13.7	6.2
VP2 (Size 2)	16.0	7.26
VP3 (Size 3)	25.9	11.7
VP4 (Size 4)	30.8	13.9

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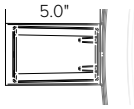
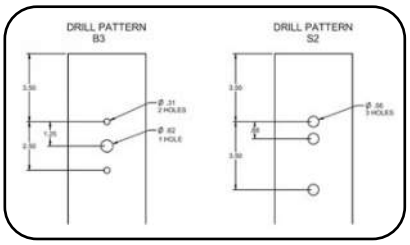
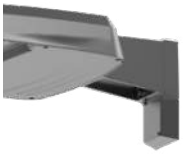
MOUNTING

A–STRAIGHT ARM MOUNT

Fixture ships with integral arm for ease of installation. Compatible with Current Outdoor B3 drill pattern for ease of installation on square poles. For round poles add applicable suffix (2/3/4/5)

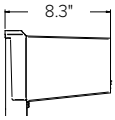


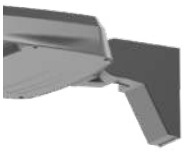




ASQU–UNIVERSAL ARM MOUNT

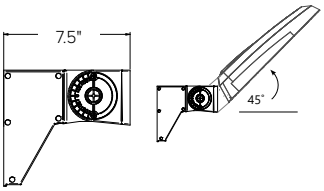
Universal mounting block for ease of installation. Compatible with drill patterns from 1.5" to 5.25" and Current drill pattern S2. For round poles add applicable suffix (2/3/4/5)





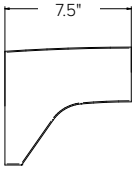
AAU–ADJUSTABLE ARM FOR POLE MOUNTING

Rotatable arm mounts directly to pole. Compatible with drill patterns from 1.5" to 5.25" and Current drill pattern S2 and B3. For round poles add applicable suffix (2/3/4/5). Rotatable in 5˚ aiming angle increments. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.



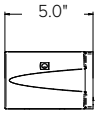
ADU–DECORATIVE UPSWEPT ARM

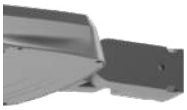
Upswept Arm compatible with drill patterns from 1.5" to 5.25" and Current drill pattern S2. For round poles add applicable suffix (2/3/4/5).



MAF–MAST ARM FITTER

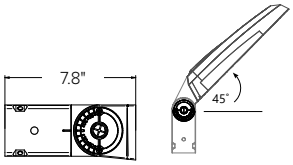
Fits 2-3/8" OD horizontal tenons.





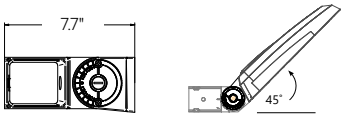
K–KNUCKLE

Rotatable in 5-degree aiming angle increments, fits 2-3/8" tenons or pipes. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.



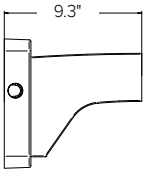
T–TRUNNION

Trunnion for surface and crossarm mounting using (1) 3/4" or (2) 1/2" size through bolts. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.



WM–WALL MOUNT

Compatible with universal arm mount, adjustable arm mount, and decorative arm mount. The WA option uses the same wall bracket but replaces the decorative arm with an adjustable arm.



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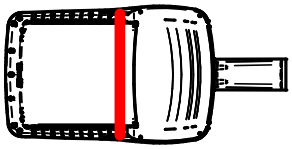
ADDITIONAL INFORMATION (CONTINUED)

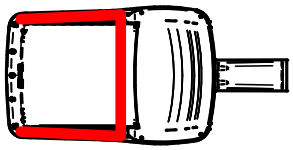
HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES

HSS has a depth of 5" for all Viper sizes
Not to be used with Occupancy Sensors as the shield may block the light to the sensor.

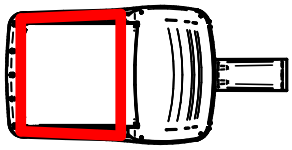
VPR2x HSS-90-B-xx



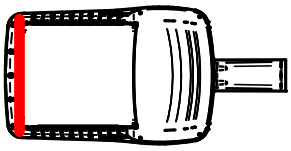
VPR2x HSS-270-BSS-xx



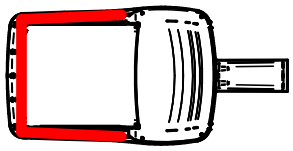
VPR2x HSS-360-xx



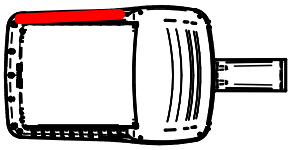
VPR2x HSS-90-F-xx



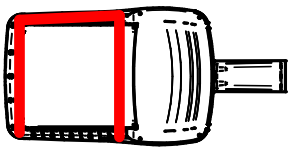
VPR2x HSS-270-FSS-xx



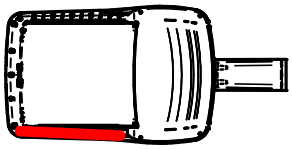
VPR2x HSS-90-S-xx



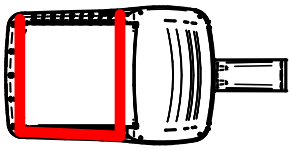
VPR2x HSS-270-FSB-xx



VPR2x HSS-90-S-xx



VPR2x HSS-270-FSB-xx



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Specification Sheet

Lumenblade

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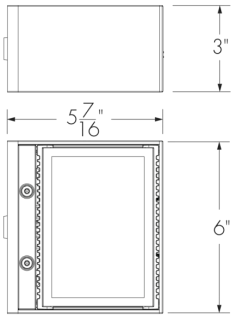
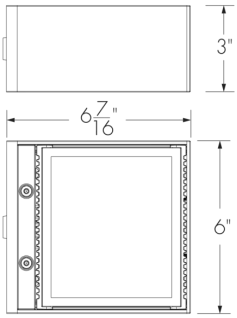
Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____

W1H2 Wall Mount Option Shown



N02, N03, N05, N07
and N10 outputs

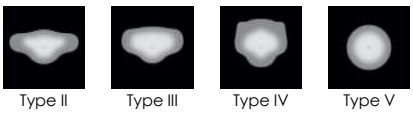


XS03, XS10, XS15, XS20
and XS25 outputs

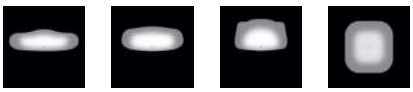
Side views

Bottom views

Distributions



Type II | Type III | Type IV | Type V



Type II Backlight Shield | Type III Backlight Shield | Type IV Backlight Shield | Type V Square

Color and Color Temperature

True Amber 585nm-595nm (Turtle-Friendly) | 2200K | 2700K | 3000K

Control

ON/OFF 0-10V

Ratings

IP66 (optical chamber) IK06 (lens) IK10*(frame)

*IK10 polycarbonate lens option available, consult factory.

Description

The Lumenpulse Lumenblade Nano is an outdoor LED luminaire that uses a rectilinear version of the Lumencentro light engine to create a continuous line of light. Side Mount or Wall Mount options are available. Its seen-but-not-seen, minimalist design is sustainable, blends with both contemporary and heritage architectures, provides a high level of security, and is sensitive to the natural environment with DarkSky approval, low outputs, and with a BUG rating of 0.

Features

Mounting	Side Mounting, Wall Mounting
Color and Color Temperature	True Amber 585nm-595nm (Turtle-Friendly), 2200K, 2700K, 3000K
Distributions	Type II, Type III or Type IV (with or without backlight shield), Type V, Type V square
Optical Option (factory installed)	Louver
Vibration Rating	Meets ANSI C136.31-2018 vibration rating for Bridge & Overpass applications
Option	Vibration Rated for Bridge and Overpass Corrosion-resistant Coating for Hostile Environments
Warranty	5-year limited warranty

Performance

Output (Nominal Lumens)	Minimum 200lm/ Maximum 2500lm
Efficacy	Up to 127 lm/W (XS10 lumen output, 3000K, CRI 80 , Type VS)
Color Rendering	3 SDCM for CRI 70+, 2 SDCM for CRI 80+ and CRI 90+
Lumen Maintenance	TM-21 L70 > 145,000 hrs (reported, Ta 25 - 50 °C [77 - 122 °F])
DarkSky	DarkSky Approved (2200K, 2700K, 3000K and Amber color temperatures, BUG rating of U0)

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Specification Sheet

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DarkSky Certification

Certified by DarkSky.org

Certifications

VRBO

Physical

Housing Material	Extruded aluminium 6000 alloy series
Lens Material	Optical tempered clear glass (Clearsite lens), Optical tempered frosted glass (Frostsite lens), Optical tempered half-frosted glass (Half-Frostsite lens)
Surface Finish	Super durable resistant exterior polyester powder coating meets AAMA 2604-98 requirements (5-years Florida exposure). A corrosion resistant finish (CRC) pre-finish is available to meet ASTM B-117 & ASTM D-1654 (salt spray resistance) and ASTM D-2247 requirements (humidity resistance).
Weight	1.87 lbs to 4.84 lbs, refer to EPA and fixture weight tables for details

Electrical and Control

Voltage	120 volts, 208 volts, 240 volts, 277 volts
Control	On/Off Control, 0-10V Dimming

Environmental

Storage Temperature	-40°C to 50°C [-40°F to 122°F] (device must reach start-up temperature value before operating)
Operating Temperature	-40°C to 50°C [-40°F to 122°F]
Start-up Temperature	-25°C to 50°C [-13°F to 122°F]
Ingress Protection Rating	IP66 (optical chamber) Wet location rated
Impact Resistance Rating	IK06 (glass lens) IK10 (frame) *IK10 polycarbonate lens option available, consult factory
Environment	Dry/damp/wet location

EPA And Fixture Weight Tables

*Fixture weights are estimated.

N02, N03, N05, N07 And N10 Output (Board With 4 LEDs)

		SD-RPA6N SD-RPA6TN	SD-SPA6N	SD-SPA6TN	SD-RPA8N SD-RPA8TN	SD-SPA8N SD-SPA8TN
EPA (sq ft.)	S1E	0.171	0.170	0.170	0.171	0.170
	S2E	0.342	0.340	0.340	0.342	0.340
Weight* (lbs)	S1E	2.22	1.87	1.90	2.06	1.87
	S2E	4.44	3.74	3.80	4.12	3.74

	WM-W1H2	WM-W1H4	WM-W1HSJB
EPA (sq ft.)	0.170	0.170	0.293
Weight* (lbs)	1.87	2.20	3.86

XS03, XS10, XS15, XS20 And XS25 Output (Board With 8 LEDs)

		SD-RPA6N SD-RPA6TN	SD-SPA6N	SD-SPA6TN	SD-RPA8N SD-RPA8TN	SD-SPA8N SD-SPA8TN
EPA (sq ft.)	S1E	0.197	0.201	0.201	0.197	0.201
	S2E	0.394	0.402	0.402	0.394	0.402
Weight* (lbs)	S1E	2.42	2.07	2.10	2.26	2.07
	S2E	4.84	4.14	4.20	4.52	4.14

	WM-W1H2	WM-W1H4	WM-W1HSJB
EPA (sq ft.)	0.201	0.201	0.324
Weight* (lbs)	2.07	2.40	4.06

Specification Sheet

Lumenblade
Nano DarkSky
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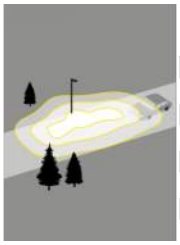
Photometric Information

Type II, 3000K, CRI 80+, Clearsite Lens



	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G	Typical maximum power 120/277V (W)
N03	204	68	0 0 0	3
N05	408	68	0 0 0	6
N07	641	71	0 0 0	9
N10	835	76	0 0 0	11
XS10	962	96	0 0 0	10
XS15	1,366	80	1 0 1	17
XS20	1,721	69	1 0 1	25
XS25	2,176	73	1 0 1	30

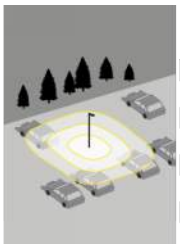
Type III, 3000K, CRI 80+, Clearsite Lens

	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G	Typical maximum power 120/277V (W)
N03	223	74	0 0 0	3
N05	446	74	0 0 0	6
N07	701	78	0 0 0	9
N10	913	83	0 0 0	11
XS10	1,014	101	0 0 0	10
XS15	1,440	85	1 0 1	17
XS20	1,814	73	1 0 1	25
XS25	2,294	76	1 0 1	30

Type IV, 3000K, CRI 80+, Clearsite Lens

	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G	Typical maximum power 120/277V (W)
N03	187	62	0 0 0	3
N05	374	62	0 0 0	6
N07	588	65	0 0 0	9
N10	767	70	0 0 0	11
XS10	867	87	0 0 0	10
XS15	1,232	72	1 0 1	17
XS20	1,552	62	1 0 1	25
XS25	1,963	65	1 0 1	30

Type V Square, 3000K, CRI 80+, Frostsite Lens



	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G	Typical maximum power 120/277V (W)
N03	226	75	0 0 0	3
N05	451	75	0 0 0	6
N07	709	79	0 0 0	9
N10	923	84	0 0 0	11
XS10	1,094	109	0 0 0	10
XS15	1,554	91	1 0 1	17
XS20	1,957	78	1 0 1	25
XS25	2,476	83	1 0 1	30

Photometric performance is measured in compliance with IESNA LM-79-19. Due to rapid and continous advances in LED technology, photometric information is subject to change without notice.

Specification Sheet

Lumenblade
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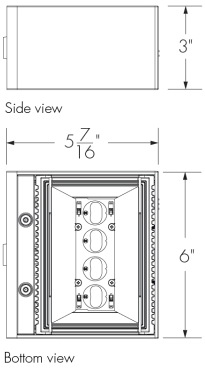
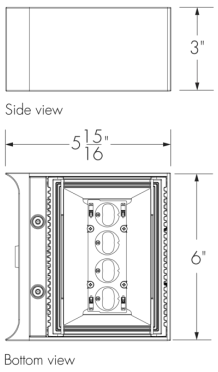
Dimensions

N02, N03, N05, N07 And N10 Output (Board With 4 LEDs)

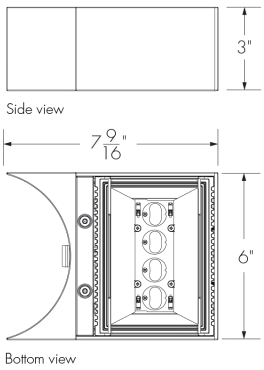
W1H2, SPA6N, SPA8N and SPA8TN



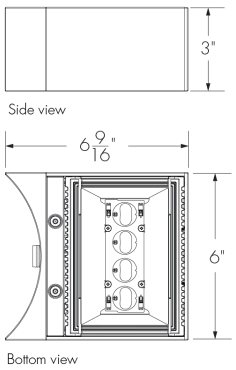
SPA6TN



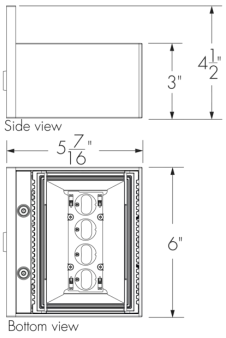
RPA6N And RPA6TN



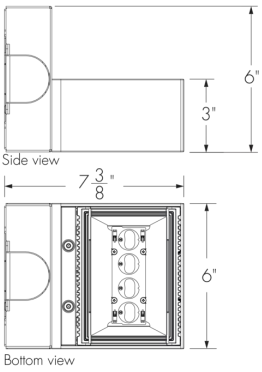
RPA8N And RPA8TN



W1H4



W1HSJB



Specification Sheet

Lumenblade
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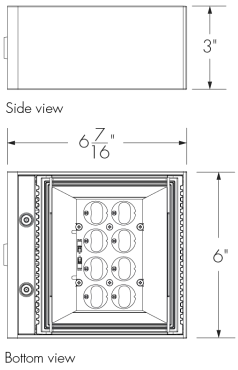
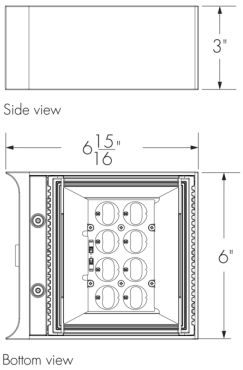
XS03, XS10, XS15, XS20 And XS25 Output (Board With 8 LEDs)

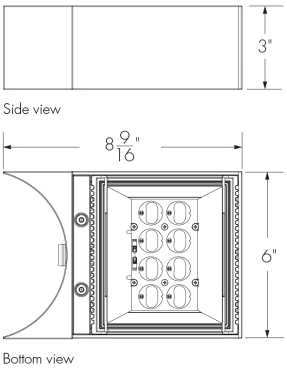
W1H2, SPA6N, SPA8N and SPA8TN



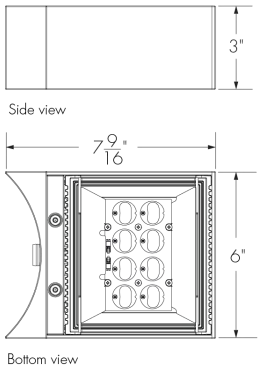
SPA6TN



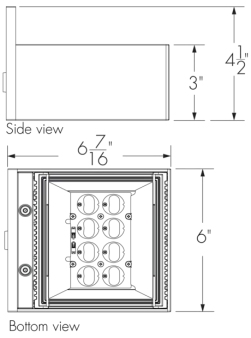
RPA6N And RPA6TN



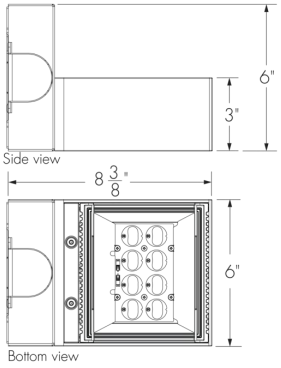
RPA8N And RPA8TN



W1H4



W1HSJB



Specification Sheet

Lumenblade
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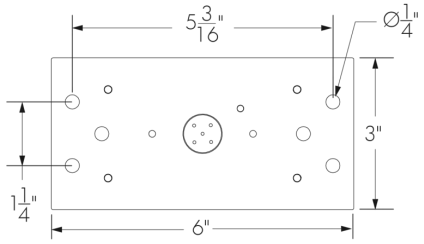
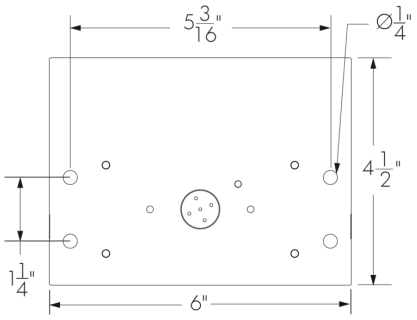
Mounting Details

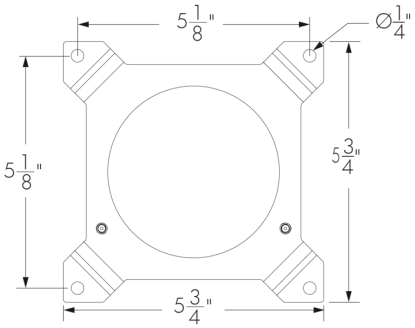
BLDN-WM-W1H2 Mounting Plate Details



BLDN-WM-W1H4 Mounting Plate Details



BLDN-WM-W1HSJB Mounting Plate Details



The WM-W1HSJB mounting is designed for installation on a round exterior (weatherproof) surface junction box (Ø4 in diameter and 1 5/8 in deep) that accommodates up to 3/4" NPT trade size conduit. For all other types of junction boxes, consult the factory.

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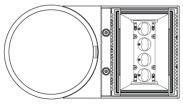
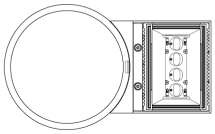
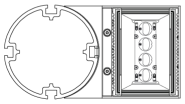
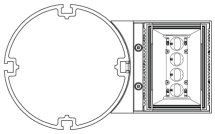
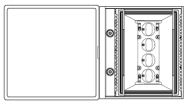
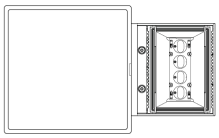
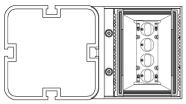
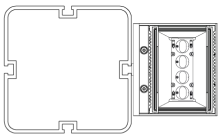
BLDN-SD Pole Mounting Option

	Straight and muffler poles		Lumentech pole	
	6in	8in	6in	8in
Round shape	RPA6N 	RPA8N 	RPA6TN 	RPA8TN 
Square shape	SPA6N 	SPA8N 	SPA6TN 	SPA8TN 

BLDN-SD with 4 LEDs shown.
Available configurations:

S1E Single pole-top
S2E Double pole-top
S1X Variable Height Mounting Arm

*Consult factory for other configurations.

Specification Sheet

Lumenblade
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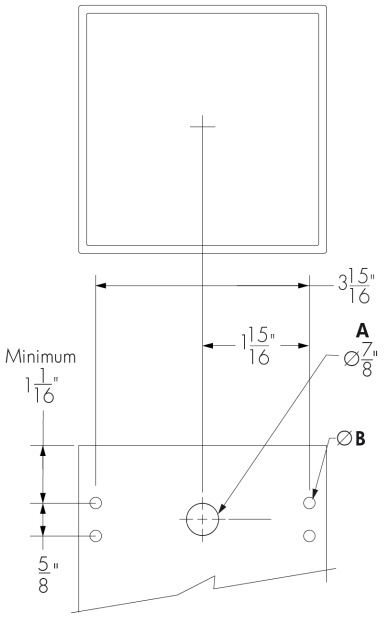
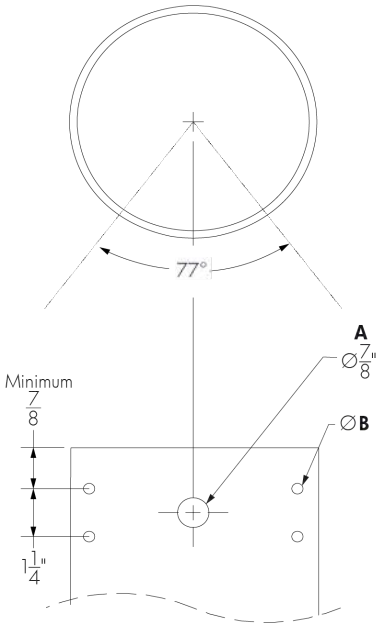
BLDN-SD Poles Drilling Patterns

SPA6N, SPA6TN, SPA8N and SPA8TN



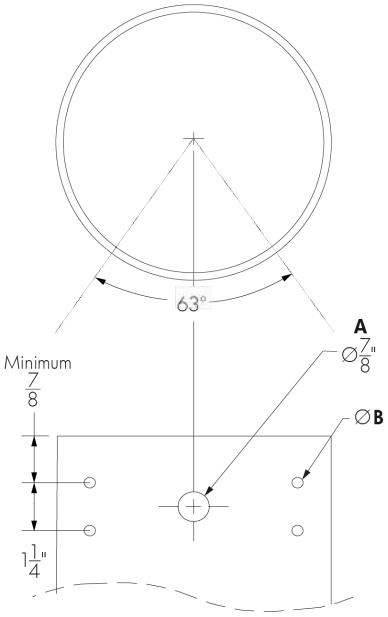
6 in or 8 in Square pole mount.

RPA6N And RPA6TN



6 in Ø round pole mounting.

RPA8N And RPA8TN



8 in Ø round pole mounting.

A - Wire feeding location

B - **S1E and S2E pole configuration**
9/32 in drilling holes. Nylon nuts (x4) and screws (4x) 1/4-20 x 1.25 in provided by lumenpulse.

S1X pole configuration
1/4-20 threaded holes. Screws (4x) 1/4-20 x 1.25 in provided by lumenpulse.

Specification Sheet

Lumenblade
Nano DarkSky
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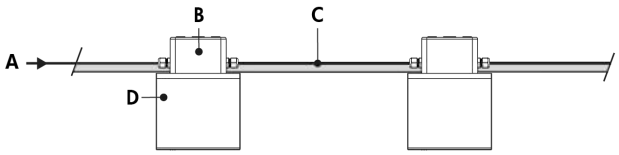
Typical Wiring Diagrams

Wiring Color Code

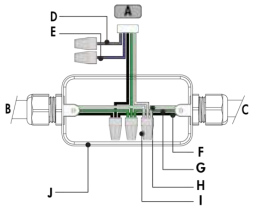
Color	Black	White	Green	Purple	Gray
Use	Line	Line/Neutral	Ground	0 -10V+	0 -10V -

On/Off Control (NO)



A - Power input (120-277V)
B - Junction box (by others)
C - Power wiring (by others)
D - Lumenblade Nano Wall Mount

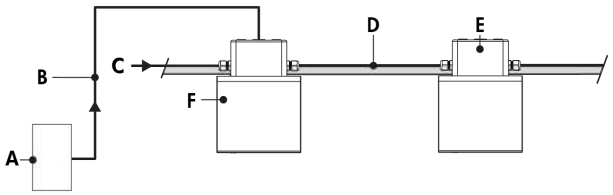
On/Off Control (NO) - Wiring Detail



A - To fixture
B - Power input or from previous fixture
C - To next fixture
D - Not required
E - Not required
F - Line
G - Ground
H - Neutral
I - Wire-nuts
J - Junction box (by others)

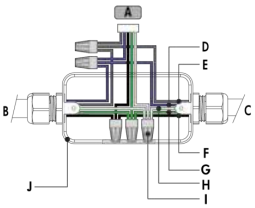
- Consult factory for specific applications and maximum fixture count/cable length recommendations.

0-10V Dimming (DIM)



A - Dimmer (by others)
B - Data wiring (by others)
C - Power input (120-277V, wiring by others)
D - Conduit (by others)
E - Junction box (by others)
F - Lumenblade Nano Wall mount

0-10V Dimming (DIM) - Wiring Detail



A - To fixture
B - Power input or from previous fixture
C - To next fixture
D - 0-10V +
E - 0-10V -
F - Line
G - Ground
H - Neutral
I - Wire-nuts
J - Junction box (by others)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- 1% minimum dimming value.

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Specification Sheet

Lumenblade

Nano DarkSky
BLDN

How to Order

Housing	Mounting	Voltage	Lens [5]	Output (Nominal Lumens) [9]	Color and Color Temperature	Color Rendering	Distributions	Optical Option	Finish	Control	Option
BLDN Lumenblade Nano	**SD** Side Mounting [1] **WM** Wall Mounting [2] [3] [4]	**120** 120 volts **208** 208 volts **240** 240 volts **277** 277 volts	**CSL** Clearsite Lens [6] **FSL** Frostsite Lens [7] **HFSL** Half-Frosted Site Lens [4] [8]	**N02** 200lm (4 LEDs) [6] [10] [11] **N03** 300lm (4 LEDs) **N05** 500lm (4 LEDs) **N07** 700lm (4 LEDs) **N10** 1000lm (4 LEDs) **XS03** 300lm (8 LEDs) [6] [10] [11] **XS10** 1000lm (8 LEDs) **XS15** 1500lm (8 LEDs) **XS20** 2000lm (8 LEDs) **XS25** 2500lm (8 LEDs)	**AMB** True Amber 585nm-595nm (Turtle-Friendly) **22K** 2200K **27K** 2700K **30K** 3000K	**CRI 70** CRI 70+ [12] **CRI 80** CRI 80+ [13] **CRI 90** CRI 90+ [14]	**2** Type II **2BLS** Type II Backlight Shield **3** Type III **3BLS** Type III Backlight Shield **4** Type IV **4BLS** Type IV Backlight Shield **5** Type V **5S** Type V Square	**LV** Louver [6] [15] [16]	**BK** Black Sandtex® **BRZ** Bronze Sandtex® **SI** Silver Sandtex® **BKTX** Textured Black **BRZTX** Textured Bronze Non-Metallic **GRATX** Textured Medium Gray **GRNTX** Textured Green **WHTX** Textured White **CC** Custom Color & Finish [17] [18] [19]	**DIM** 0-10V Dimming [20]	**VRBO** Vibration Rated for Bridge and Overpass [21] [22] [23] **CRC** Corrosion-resistant coating [24] [25]

Notes:

1. Available with all pole mounting options.
2. Available with W1H2, W1H4 and W1HSJB adaptors only.
3. When combined with CSL lens, only AMB color temperature is available.
4. Available with Type 2, 3 and 4 distributions only.
5. Standard IK06 rating for glass lens. IK10 rated polycarbonate lens available, please consult factory.
6. Not available with type 5 distribution.
7. Available with type 3 and 5 distributions only.
8. Available for N03, N05, N07 and N10 outputs only.
9. Lumen output will vary according to the lens and distribution specified for the fixture. Please consult the photometric information section of the specification sheet for more details.
10. Available with AMB color temperature only.
11. Not available for FSL and HFSL lens.
12. Binning within a 3-step McAdam ellipse
13. Binning within a 2-step McAdam ellipse, with the exception of 2200K.
14. Binning within a 2-step MacAdam ellipse.
15. Available with CSL and HFSL lenses only.
16. Factory installed.
17. Specify RAL number followed by "TX" for textured finish (ex: RAL9007TX) or STX for Sandtex finish (ex: RAL9007STX). Textured or Sandtex finishes are recommended for the durability of all products. If a finish is not specified with the RAL number (ex: RAL9007), a glossy finish will be provided. Please consult factory for other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.
18. Longer lead times can be expected for custom RAL color finishes.
19. Setup charges apply for RAL colors. Consult factory for details.
20. DIM control can be used as NO (On/Off control) if no data is required.
21. Vibration tested in accordance with ANSI 136.31 2018 for bridge and overpass applications at 5Gv.
22. Specify only if a bridge or overpass application is required.
23. Not available for W1HSJB mounting adaptor.
24. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
25. Setup charges apply. Consult factory for details.

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How to Order

Mounting Adaptor
RPA6N Round Pole Adaptor for Ø6 in Pole
SPA6N Square Pole Adaptor for Ø6 in Pole
RPA8N Round Pole Adaptor for Ø8 in Pole
SPA8N Square Pole Adaptor for Ø8 in Pole
RPA6TN Round Pole Adaptor for Lumentech Ø6 in Pole
SPA6TN Square Pole Adaptor for Lumentech Ø6 in Pole
RPA8TN Round Pole Adaptor for Lumentech Ø8 in Pole
SPA8TN Square Pole Adaptor for Lumentech Ø8 in Pole
W1H2 Horizontal Wall Mount Adaptor for 2 in x 4 in Recessed Junction Box
W1H4 Horizontal Wall Mounting Adaptor for 4 in x 4 in Recessed Junction Box
W1HSJB Horizontal Wall Mounting Adaptor for Ø4 in Round Exterior Surface Junction Box (26) (27)

Notes:

26. The WM-W1HSJB mounting is designed for installation on a round exterior (weatherproof) surface junction box (Ø4 in diameter and 1 5/8 in deep). For all other types of junction box, consult the factory.

27. Not available with VRBO option.

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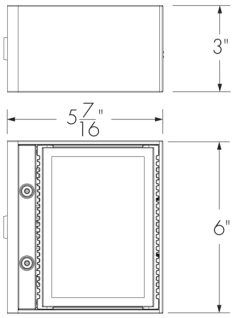
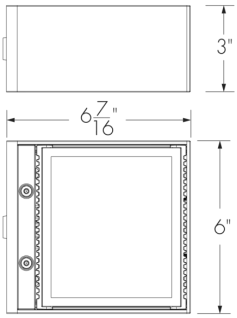
Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____

W1H2 Wall Mount Option Shown



N02, N03, N05, N07 and N10 outputs

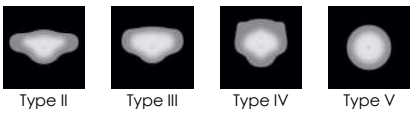


XS03, XS10, XS15, XS20 and XS25 outputs

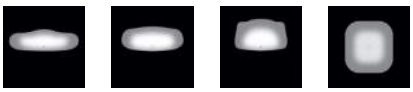
Side views

Bottom views

Distributions



Type II | Type III | Type IV | Type V



Type II Backlight Shield | Type III Backlight Shield | Type IV Backlight Shield | Type V Square

Color and Color Temperature

True Amber 585nm-595nm (Turtle-Friendly) | 2200K | 2700K | 3000K

Control

ON/OFF 0-10V

Ratings

IP66 (optical chamber) IK06 (lens) IK10*(frame)

*IK10 polycarbonate lens option available, consult factory.

Description

The Lumenpulse Lumenblade Nano is an outdoor LED luminaire that uses a rectilinear version of the Lumencentro light engine to create a continuous line of light. Side Mount or Wall Mount options are available. Its seen-but-not-seen, minimalist design is sustainable, blends with both contemporary and heritage architectures, provides a high level of security, and is sensitive to the natural environment with DarkSky approval, low outputs, and with a BUG rating of 0.

Features

Mounting	Side Mounting, Wall Mounting
Color and Color Temperature	True Amber 585nm-595nm (Turtle-Friendly), 2200K, 2700K, 3000K
Distributions	Type II, Type III or Type IV (with or without backlight shield), Type V, Type V square
Optical Option (factory installed)	Louver
Vibration Rating	Meets ANSI C136.31-2018 vibration rating for Bridge & Overpass applications
Option	Vibration Rated for Bridge and Overpass Corrosion-resistant Coating for Hostile Environments
Warranty	5-year limited warranty

Performance

Output (Nominal Lumens)	Minimum 200lm/ Maximum 2500lm
Efficacy	Up to 127 lm/W (XS10 lumen output, 3000K, CRI 80 , Type VS)
Color Rendering	3 SDCM for CRI 70+, 2 SDCM for CRI 80+ and CRI 90+
Lumen Maintenance	TM-21 L70 > 145,000 hrs (reported, Ta 25 - 50 °C [77 - 122 °F])
DarkSky	DarkSky Approved (2200K, 2700K, 3000K and Amber color temperatures, BUG rating of U0)

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Specification Sheet

Lumenblade

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DarkSky Certification

Certified by DarkSky.org

Certifications

VRBO

Physical

Housing Material	Extruded aluminium 6000 alloy series
Lens Material	Optical tempered clear glass (Clearsite lens), Optical tempered frosted glass (Frostsite lens), Optical tempered half-frosted glass (Half-Frostsite lens)
Surface Finish	Super durable resistant exterior polyester powder coating meets AAMA 2604-98 requirements (5-years Florida exposure). A corrosion resistant finish (CRC) pre-finish is available to meet ASTM B-117 & ASTM D-1654 (salt spray resistance) and ASTM D-2247 requirements (humidity resistance).
Weight	1.87 lbs to 4.84 lbs, refer to EPA and fixture weight tables for details

Electrical and Control

Voltage	120 volts, 208 volts, 240 volts, 277 volts
Control	On/Off Control, 0-10V Dimming

Environmental

Storage Temperature	-40°C to 50°C [-40°F to 122°F] (device must reach start-up temperature value before operating)
Operating Temperature	-40°C to 50°C [-40°F to 122°F]
Start-up Temperature	-25°C to 50°C [-13°F to 122°F]
Ingress Protection Rating	IP66 (optical chamber) Wet location rated
Impact Resistance Rating	IK06 (glass lens) IK10 (frame) *IK10 polycarbonate lens option available, consult factory
Environment	Dry/damp/wet location

EPA And Fixture Weight Tables

*Fixture weights are estimated.

N02, N03, N05, N07 And N10 Output (Board With 4 LEDs)

		SD-RPA6N SD-RPA6TN	SD-SPA6N	SD-SPA6TN	SD-RPA8N SD-RPA8TN	SD-SPA8N SD-SPA8TN
EPA (sq ft.)	S1E	0.171	0.170	0.170	0.171	0.170
	S2E	0.342	0.340	0.340	0.342	0.340
Weight* (lbs)	S1E	2.22	1.87	1.90	2.06	1.87
	S2E	4.44	3.74	3.80	4.12	3.74

	WM-W1H2	WM-W1H4	WM-W1HSJB
EPA (sq ft.)	0.170	0.170	0.293
Weight* (lbs)	1.87	2.20	3.86

XS03, XS10, XS15, XS20 And XS25 Output (Board With 8 LEDs)

		SD-RPA6N SD-RPA6TN	SD-SPA6N	SD-SPA6TN	SD-RPA8N SD-RPA8TN	SD-SPA8N SD-SPA8TN
EPA (sq ft.)	S1E	0.197	0.201	0.201	0.197	0.201
	S2E	0.394	0.402	0.402	0.394	0.402
Weight* (lbs)	S1E	2.42	2.07	2.10	2.26	2.07
	S2E	4.84	4.14	4.20	4.52	4.14

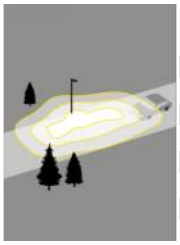
	WM-W1H2	WM-W1H4	WM-W1HSJB
EPA (sq ft.)	0.201	0.201	0.324
Weight* (lbs)	2.07	2.40	4.06

Specification Sheet

Lumenblade
Nano DarkSky
BLDN

Photometric Information

Type II, 3000K, CRI 80+, Clearsite Lens



	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G	Typical maximum power 120/277V (W)
N03	204	68	0 0 0	3
N05	408	68	0 0 0	6
N07	641	71	0 0 0	9
N10	835	76	0 0 0	11
XS10	962	96	0 0 0	10
XS15	1,366	80	1 0 1	17
XS20	1,721	69	1 0 1	25
XS25	2,176	73	1 0 1	30

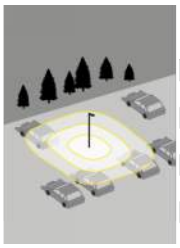
Type III, 3000K, CRI 80+, Clearsite Lens

	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G	Typical maximum power 120/277V (W)
N03	223	74	0 0 0	3
N05	446	74	0 0 0	6
N07	701	78	0 0 0	9
N10	913	83	0 0 0	11
XS10	1,014	101	0 0 0	10
XS15	1,440	85	1 0 1	17
XS20	1,814	73	1 0 1	25
XS25	2,294	76	1 0 1	30

Type IV, 3000K, CRI 80+, Clearsite Lens

	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G	Typical maximum power 120/277V (W)
N03	187	62	0 0 0	3
N05	374	62	0 0 0	6
N07	588	65	0 0 0	9
N10	767	70	0 0 0	11
XS10	867	87	0 0 0	10
XS15	1,232	72	1 0 1	17
XS20	1,552	62	1 0 1	25
XS25	1,963	65	1 0 1	30

Type V Square, 3000K, CRI 80+, Frostsite Lens



	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G	Typical maximum power 120/277V (W)
N03	226	75	0 0 0	3
N05	451	75	0 0 0	6
N07	709	79	0 0 0	9
N10	923	84	0 0 0	11
XS10	1,094	109	0 0 0	10
XS15	1,554	91	1 0 1	17
XS20	1,957	78	1 0 1	25
XS25	2,476	83	1 0 1	30

Photometric performance is measured in compliance with IESNA LM-79-19. Due to rapid and continous advances in LED technology, photometric information is subject to change without notice.

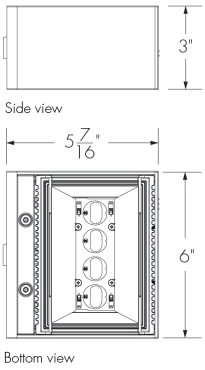
Specification Sheet

Lumenblade
Nano DarkSky
BLDN

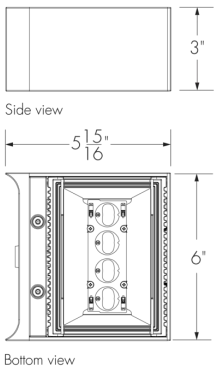
Dimensions

N02, N03, N05, N07 And N10 Output (Board With 4 LEDs)

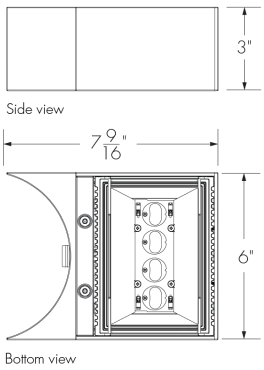
W1H2, SPA6N, SPA8N and SPA8TN



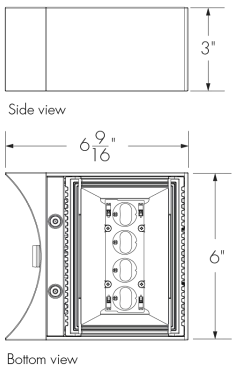
SPA6TN



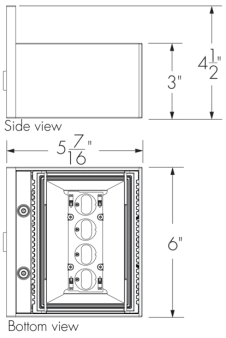
RPA6N And RPA6TN



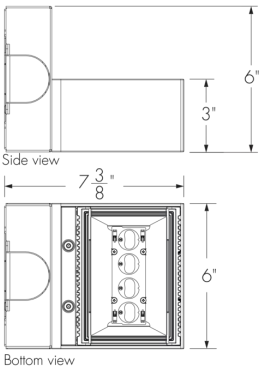
RPA8N And RPA8TN



W1H4



W1HSJB



Specification Sheet

Lumenblade
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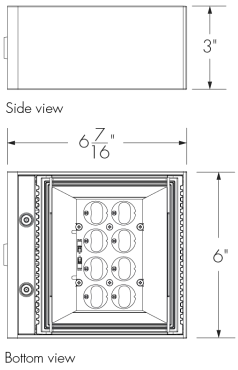
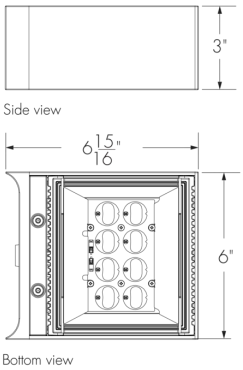
XS03, XS10, XS15, XS20 And XS25 Output (Board With 8 LEDs)

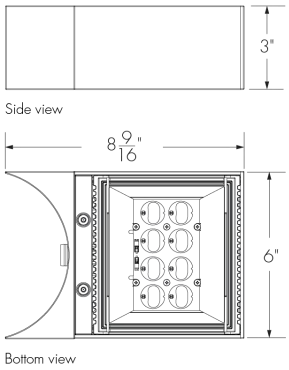
W1H2, SPA6N, SPA8N and SPA8TN



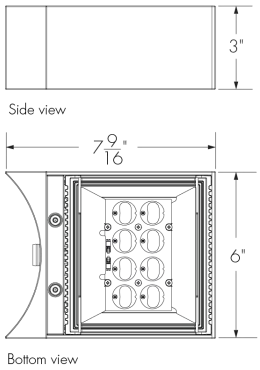
SPA6TN



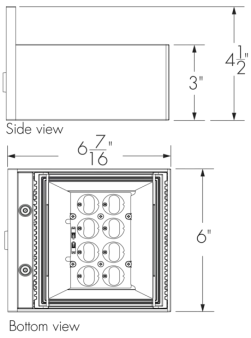
RPA6N And RPA6TN



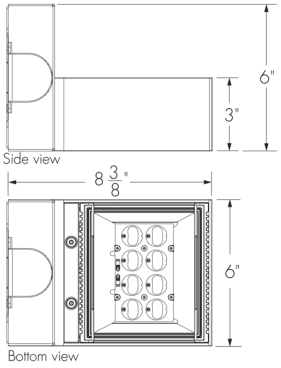
RPA8N And RPA8TN



W1H4



W1HSJB



Specification Sheet

Lumenblade
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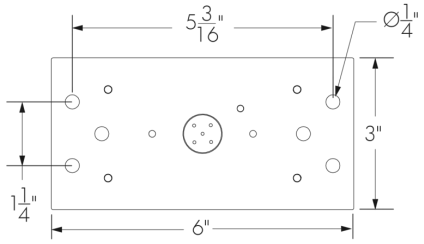
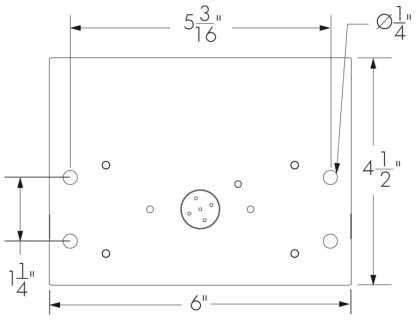
Mounting Details

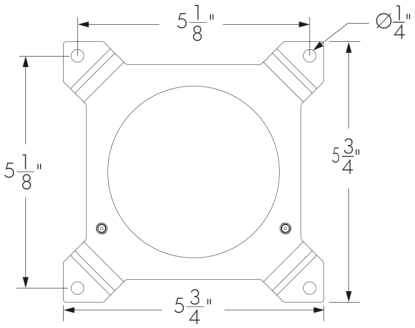
BLDN-WM-W1H2 Mounting Plate Details



BLDN-WM-W1H4 Mounting Plate Details



BLDN-WM-W1HSJB Mounting Plate Details



The WM-W1HSJB mounting is designed for installation on a round exterior (weatherproof) surface junction box (Ø4 in diameter and 1 5/8 in deep) that accommodates up to 3/4" NPT trade size conduit. For all other types of junction boxes, consult the factory.

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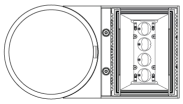
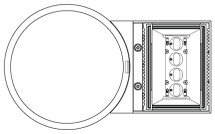
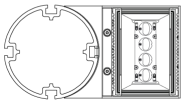
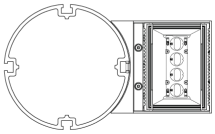
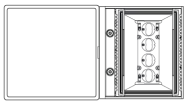
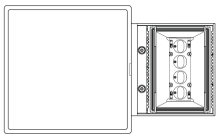
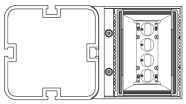
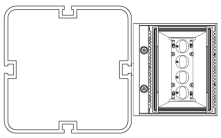
BLDN-SD Pole Mounting Option

	Straight and muffler poles		Lumentech pole	
	6in	8in	6in	8in
Round shape	RPA6N 	RPA8N 	RPA6TN 	RPA8TN 
Square shape	SPA6N 	SPA8N 	SPA6TN 	SPA8TN 

BLDN-SD with 4 LEDs shown.
Available configurations:

S1E Single pole-top
S2E Double pole-top
S1X Variable Height Mounting Arm

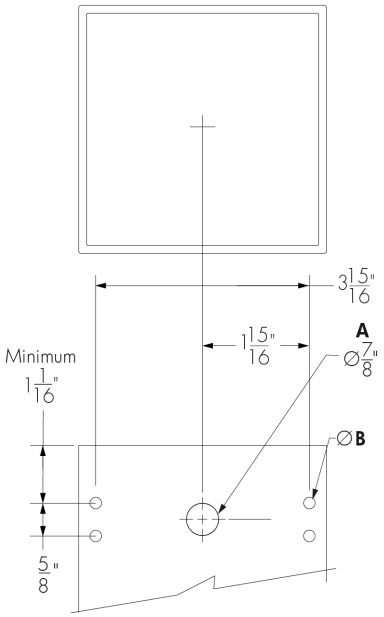
*Consult factory for other configurations.

Specification Sheet

Lumenblade
Nano DarkSky
BLDN

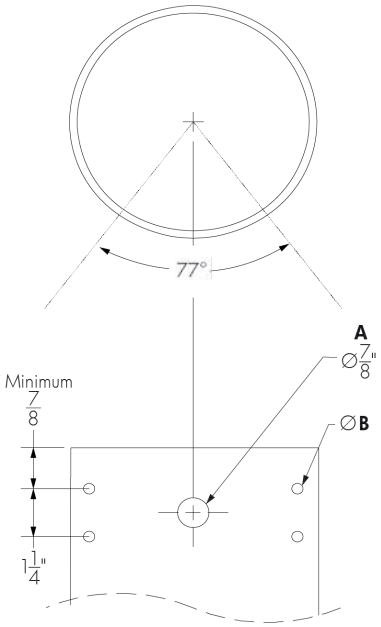
BLDN-SD Poles Drilling Patterns

SPA6N, SPA6TN, SPA8N and SPA8TN



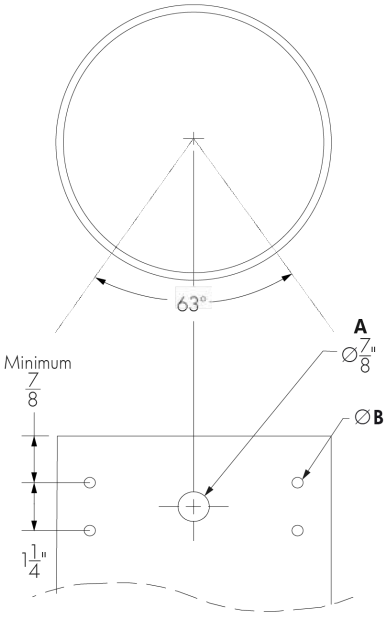
6 in or 8 in Square pole mount.

RPA6N And RPA6TN



6 in Ø round pole mounting.

RPA8N And RPA8TN



8 in Ø round pole mounting.

A - Wire feeding location

B - **S1E and S2E pole configuration**
9/32 in drilling holes. Nylon nuts (x4) and screws (4x) 1/4-20 x 1.25 in provided by lumenpulse.

S1X pole configuration
1/4-20 threaded holes. Screws (4x) 1/4-20 x 1.25 in provided by lumenpulse.

Specification Sheet

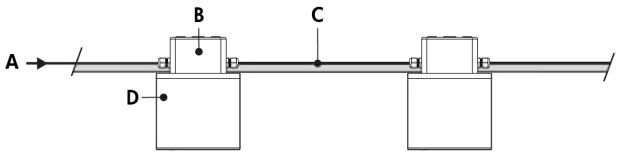
Lumenblade
Nano DarkSky
BLDN

Typical Wiring Diagrams

Wiring Color Code

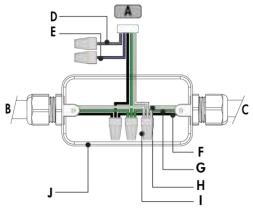
Color	Black	White	Green	Purple	Gray
Use	Line	Line/Neutral	Ground	0 -10V+	0 -10V -

On/Off Control (NO)



A - Power input (120-277V)
B - Junction box (by others)
C - Power wiring (by others)
D - Lumenblade Nano Wall Mount

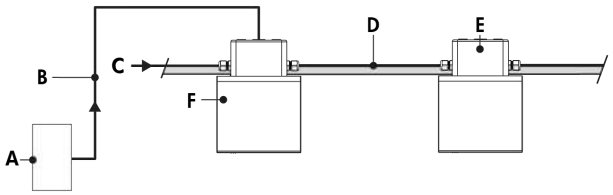
On/Off Control (NO) - Wiring Detail



A - To fixture
B - Power input or from previous fixture
C - To next fixture
D - Not required
E - Not required
F - Line
G - Ground
H - Neutral
I - Wire-nuts
J - Junction box (by others)

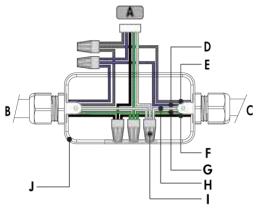
- Consult factory for specific applications and maximum fixture count/cable length recommendations.

0-10V Dimming (DIM)



A - Dimmer (by others)
B - Data wiring (by others)
C - Power input (120-277V, wiring by others)
D - Conduit (by others)
E - Junction box (by others)
F - Lumenblade Nano Wall mount

0-10V Dimming (DIM) - Wiring Detail



A - To fixture
B - Power input or from previous fixture
C - To next fixture
D - 0-10V +
E - 0-10V -
F - Line
G - Ground
H - Neutral
I - Wire-nuts
J - Junction box (by others)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- 1% minimum dimming value.

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Specification Sheet

Lumenblade

Nano DarkSky
BLDN

How to Order

Housing	Mounting	Voltage	Lens [5]	Output (Nominal Lumens) [9]	Color and Color Temperature	Color Rendering	Distributions	Optical Option	Finish	Control	Option
BLDN Lumenblade Nano	**SD** Side Mounting [1] **WM** Wall Mounting [2] [3] [4]	**120** 120 volts **208** 208 volts **240** 240 volts **277** 277 volts	**CSL** Clearsite Lens [6] **FSL** Frostsite Lens [7] **HFSL** Half-Frosted Site Lens [4] [8]	**N02** 200lm (4 LEDs) [6] [10] [11] **N03** 300lm (4 LEDs) **N05** 500lm (4 LEDs) **N07** 700lm (4 LEDs) **N10** 1000lm (4 LEDs) **XS03** 300lm (8 LEDs) [6] [10] [11] **XS10** 1000lm (8 LEDs) **XS15** 1500lm (8 LEDs) **XS20** 2000lm (8 LEDs) **XS25** 2500lm (8 LEDs)	**AMB** True Amber 585nm-595nm (Turtle-Friendly) **22K** 2200K **27K** 2700K **30K** 3000K	**CRI 70** CRI 70+ [12] **CRI 80** CRI 80+ [13] **CRI 90** CRI 90+ [14]	**2** Type II **2BLS** Type II Backlight Shield **3** Type III **3BLS** Type III Backlight Shield **4** Type IV **4BLS** Type IV Backlight Shield **5** Type V **5S** Type V Square	**LV** Louver [6] [15] [16]	**BK** Black Sandtex® **BRZ** Bronze Sandtex® **SI** Silver Sandtex® **BKTX** Textured Black **BRZTX** Textured Bronze Non-Metallic **GRATX** Textured Medium Gray **GRNTX** Textured Green **WHTX** Textured White **CC** Custom Color & Finish [17] [18] [19]	**DIM** 0-10V Dimming [20]	**VRBO** Vibration Rated for Bridge and Overpass [21] [22] [23] **CRC** Corrosion-resistant coating [24] [25]

Notes:

1. Available with all pole mounting options.
2. Available with W1H2, W1H4 and W1HSJB adaptors only.
3. When combined with CSL lens, only AMB color temperature is available.
4. Available with Type 2, 3 and 4 distributions only.
5. Standard IK06 rating for glass lens. IK10 rated polycarbonate lens available, please consult factory.
6. Not available with type 5 distribution.
7. Available with type 3 and 5 distributions only.
8. Available for N03, N05, N07 and N10 outputs only.
9. Lumen output will vary according to the lens and distribution specified for the fixture. Please consult the photometric information section of the specification sheet for more details.
10. Available with AMB color temperature only.
11. Not available for FSL and HFSL lens.
12. Binning within a 3-step McAdam ellipse
13. Binning within a 2-step McAdam ellipse, with the exception of 2200K.
14. Binning within a 2-step MacAdam ellipse.
15. Available with CSL and HFSL lenses only.
16. Factory installed.
17. Specify RAL number followed by "TX" for textured finish (ex: RAL9007TX) or STX for Sandtex finish (ex: RAL9007STX). Textured or Sandtex finishes are recommended for the durability of all products. If a finish is not specified with the RAL number (ex: RAL9007), a glossy finish will be provided. Please consult factory for other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.
18. Longer lead times can be expected for custom RAL color finishes.
19. Setup charges apply for RAL colors. Consult factory for details.
20. DIM control can be used as NO (On/Off control) if no data is required.
21. Vibration tested in accordance with ANSI 136.31 2018 for bridge and overpass applications at 5Gv.
22. Specify only if a bridge or overpass application is required.
23. Not available for W1HSJB mounting adaptor.
24. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
25. Setup charges apply. Consult factory for details.

Specification Sheet

Lumenblade
Nano DarkSky
BLDN

How to Order

Mounting Adaptor
RPA6N Round Pole Adaptor for Ø6 in Pole
SPA6N Square Pole Adaptor for Ø6 in Pole
RPA8N Round Pole Adaptor for Ø8 in Pole
SPA8N Square Pole Adaptor for Ø8 in Pole
RPA6TN Round Pole Adaptor for Lumentech Ø6 in Pole
SPA6TN Square Pole Adaptor for Lumentech Ø6 in Pole
RPA8TN Round Pole Adaptor for Lumentech Ø8 in Pole
SPA8TN Square Pole Adaptor for Lumentech Ø8 in Pole
W1H2 Horizontal Wall Mount Adaptor for 2 in x 4 in Recessed Junction Box
W1H4 Horizontal Wall Mounting Adaptor for 4 in x 4 in Recessed Junction Box
W1HSJB Horizontal Wall Mounting Adaptor for Ø4 in Round Exterior Surface Junction Box (26) (27)

Notes:

26. The WM-W1HSJB mounting is designed for installation on a round exterior (weatherproof) surface junction box (Ø4 in diameter and 1 5/8 in deep). For all other types of junction box, consult the factory.

27. Not available with VRBO option.

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AERA 4" SEAL CYLINDER

SURFACE

Lumenwerx

5 YEAR WARRANTY

8" Height

10" Height

12" Height

The Aera 4" Seal Cylinder, available as a pendant, surface, or wall mounted luminaire, takes the Aera family's clean esthetic and performance assets to wet locations and outdoor environments, delivering lighting that's visually comfortable with minimal glare.

Beam Angles

15° 25° 35° 50° 80° 90°

Low UGR < 10 in 15°, 25°, 35°, and 50° beams

Performance

LUMEN OUTPUT [1]	WATTS	EFFICACY
1308 lm	14 W	93 lm/W
1824 lm	20 W	91 lm/W
2450 lm	28 W	87 lm/W

[1] Lumen packages are assuming 3500K, 80+ CRI, 25° beam, gasketed bevel baffle, LSDL lens option.

Mounting Options

Flat Direct

Light Source

Static White
SOLA - Dim-to-Warm
DUO - Tunable White

Certification

IP66

COB

2 Step Color Binning
Up to 95+ CRI

Driver

1%, 0.1% Dimming Available
0-10V, TRIAC, ELV, Lutron EcoSystem, DALI, DMX
Emergency Battery (optional)

Aera Family (Refer to other spec sheets)

Downlight

2" / 3" / 4" Round / Square Recessed Adjustable
2" / 3" / 4" Round / Square Recessed
2" / 3" / 4" Round / Square Recessed Wall Wash

Multi-aperture

2" / 3" / 4" Round / Square Recessed Adjustable
2" / 3" / 4" Round / Square Recessed
2" / 3" / 4" Round / Square Recessed Wall Wash

Cylinder

2" / 3" / 4" / 5" 4" Seal Pendant Pendant Asymmetric Pendant Wall Wash
2" / 3" / 4" / 5" 4" Seal Wall Wall Asymmetric
2" / 3" / 4" / 5" 4" Seal Surface Surface Asymmetric Surface Wall Wash

Intertek

Lumenwerx reserves the right to modify product specifications without notification.
AERA4-SEAL-CYLINDER-SURFACE-SPEC-REV5 February 6, 2025

PoE

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Portland, OR 97204
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AERA 4" SEAL CYLINDER

SURFACE

Lumenwerx

Project: _____

_____

Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	ENVIRONMENT	CYLINDER HEIGHT	CYLINDER FINISH [3]	BAFFLE STYLE	BAFFLE FINISH
AE4SEALCYS	**D**				**BVLG**	
AE4SEALCYS [1] - Aera 4" Seal Cylinder Surface [1] IP66 rated gasketed construction with an additional clear tempered glass lens.	**D** - Direct	**STR** - Standard temperature range, 0°C to 25°C (32°F to 77°F) **ETR** - Extended temperature range, -30°C to 40°C (-22°F to 104°F)	**8IN** - 8" **10IN** - 10" **12IN** - 12" **CH#IN** [2] - Custom height [2] Specify height (#) in 1" increments only. Up to maximum 36".	**FTMWE** - Textured matte white exterior finish **FTMBE** - Textured matte black exterior finish [3] Consult factory for custom exterior finishes.	**BVLG** - Gasketed bevel	**FTMW** - Textured matte white **FTMB** - Textured matte black **FSPC** - Specular **FSSPC** - Semi-specular **CF#** - Custom finish, specify RAL#

LIGHT SOURCE	BEAM	COLOR QUALITY	CRI	COLOR TEMP.	ACCESSORY [6] See page 3 for details	VOLTAGE
SW - Static white	**15DEG** - 15° Narrow spot **25DEG** - 25° Spot **35DEG** - 35° Narrow flood **50DEG** - 50° Wide flood **80DEG** - 80° Very wide flood **90DEG** - 90° Open flood	**2STP** - 2 Step MacAdam Ellipse **3STP** - 3 Step MacAdam Ellipse	**90CRI** - 90+ CRI **95CRI** - 95+ CRI **80CRI** - 80+ CRI	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K	**At light element** (choose up to 1 option) **LSDL** - Soft diffused lens, Solite **LFDL** - Frosted diffused lens **HEX** [7] - Hex louver **NA** - None	**120V** - 120V **277V** - 277V **UNV** - 120V-277V **347V** [8] - 347V
SOLA - Dim-to-warm single channel control **DUO** - Tunable white 2-channel control	**50DEG** - 50° Wide flood	**3STP** - 3 Step MacAdam Ellipse	**90CRI** - 90+ CRI	**SOLA** [4] - Dim-to-warm single channel control **DUO** [5] - Tunable white 2-channel control [4] 3500K to 2200K [5] 6500K to 2700K	[6] For SOLA/DUO, one of the following lenses must be specified: LSDL or LFDL. [7] Not available with 80°/90° beam options. Not available with extended temperature range option (ETR).	[8] Available with RD1 driver only. Please consult factory.

WATTAGE	DIMMING [10]		CANOPY TYPE [17]	CANOPY FINISH [18] Specify NA for DM
	INTEGRAL	REMOTE [12, 13]		
14W - 14 W output, up to 1308 lm **20W** - 20 W output, up to 1824 lm **28W** [9] - 28 W output, up to 2450 lm [9] Not available with extended temperature range option (ETR).	**D1** - 1% 0-10V **ELV** [11] - ELV 120V **TRI** [11] - TRIAC 120V [10] PoE (Power-over-Ethernet) compatible. Consult factory for details. [11] Available with 120V only.	**RD1** - 1% 0-10V **RELV** [14] - ELV 120V **RTRI** [14] - TRIAC 120V **RLDE1** [15] - Lutron Hi-lume 1% Eco **RDA** [15] - DALI **RELD1** - eldoLED 1% ECOdrive 0-10V **RELD0** - eldoLED 0.1% SOLOdrive 0-10V **+EB** [16] - Emergency battery [12] A remote driver box is provided, see page 4 for details. [13] The remote driver box must be installed in dry/damp environments with ambient temperatures of 0°C to 25°C (32°F to 77°F). [14] Available with 120V only. [15] On-site commissioning is required. [16] For emergency battery, code will be like the following example: RD1+EB.	**FLR** - Flat round canopy, 4" octagonal junction box **DM** - Direct mount [17] See page 4 for details.	**FTMWE** - Textured matte white exterior finish **FTMBE** - Textured matte black exterior finish **NA** - None [18] Consult factory for custom exterior finishes.
SOLA **25W** - 25 W output, up to 1400 lm DUO **19W** - 19 W output, up to 1100 lm	SOLA **SD1** - Single 0-10V input **SELV** [11] - ELV 120V **STRI** [11] - TRIAC 120V	SOLA **RSD1** - Single 0-10V input **RSELV** [14] - ELV 120V **RSTRI** [14] - TRIAC 120V DUO **RDMX** [15] - DMX **RDDA** [15] - DALI DT6 **RDDA8** [15] - DALI DT8 **RDD1** - Dual 0-10V input for CCT/intensity **RLD2** [15] - Lutron DALI-2 digital		

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AERA 4" SEAL CYLINDER

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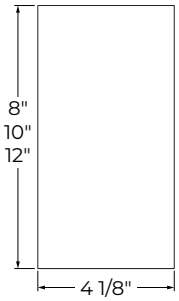
SURFACE

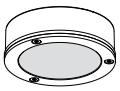
Dimensions

CYLINDER

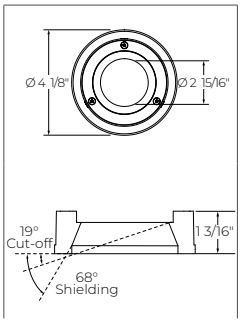


BAFFLE

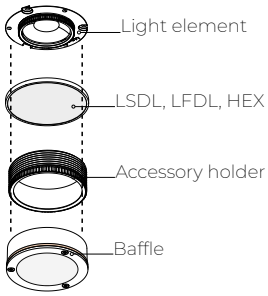
BVLG
Gasketed bevel



Baffle finish



Accessories



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AERA 4" SEAL CYLINDER

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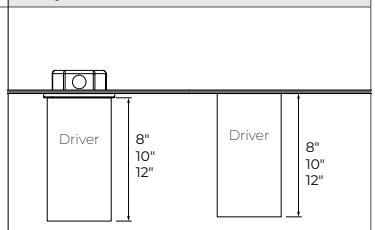
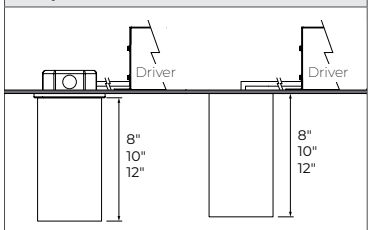
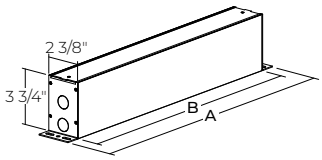
Mounting

CANOPY

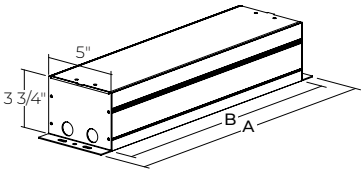
	INTEGRAL DRIVER		REMOTE DRIVER	
Order code	**FLR** Flat round canopy, 4" octagonal junction box	**DM** Direct mount	**FLR** Flat round canopy, 4" octagonal junction box	**DM** Direct mount
Canopy type				
Canopy size	Ø 5" Height 1/4"	NA	Ø 5" Height 1/4"	NA

REMOTE DRIVER BOX

RDB8 / RDB18 / RDB24



RDB24W



	RDB8	RDB18	RDB24	RDB24W
A	10"	20"	26"	26"
B	8"	18"	24"	24"
DRIVER	**RD1** - 1% 0-10V **RELV** - ELV 120V **RTRI** - TRIAC 120V	**RLDE1** - Lutron Hi-lume 1% Eco **RDA** - DALI **RELD1** - eldoLED 1% ECOdrive 0-10V **RELD0** - eldoLED 0.1% SOLOdrive 0-10V	Emergency battery (+EB) with the following driver options. **RD1+EB** - 1% 0-10V **RELV+EB** - ELV 120V **RTRI+EB** - TRIAC 120V	Emergency battery (+EB) with the following driver options. **RLDE1+EB** - Lutron Hi-lume 1% Eco **RDA+EB** - DALI **RELD1+EB** - eldoLED 1% ECOdrive 0-10V **RELD0+EB** - eldoLED 0.1% SOLOdrive 0-10V
	SOLA **RSD1** - Single 0-10V input **RSELV** - ELV 120V **RSTRI** - TRIAC 120V		DUO **RDMX** - DMX **RDDA** - DALI DT6 **RDDA8** - DALI DT8 **RDD1** - Dual 0-10V input for CCT/intensity **RLD2** - Lutron DALI-2 digital	

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AERA 4" SEAL CYLINDER

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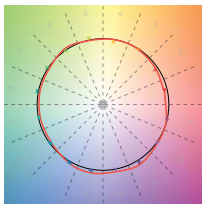
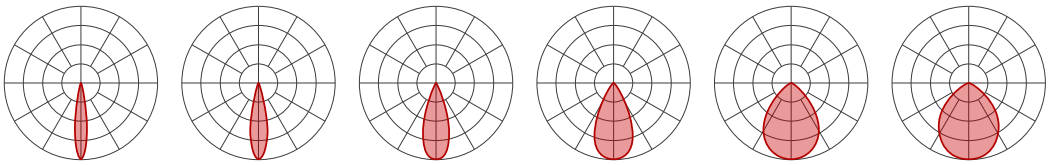
Color Quality

COLOR QUALITY - 3500K	
TM-30 R_f	90
TM-30 R_g	100
CRI	90
R9	> 50



Photometrics

Values calculated based on 3500K, gasketed bevel baffle, and SDL lens option.



15° 25° 35° 50° 80° 90°

Delivered lumens

CRI	90+ CRI						95+ CRI						80+ CRI					
BEAM	15°	25°	35°	50°	80°	90°	15°	25°	35°	50°	80°	90°	15°	25°	35°	50°	80°	90°
14 W	1189	1221	1177	1153	1037	1037	915	940	906	887	799	799	1272	1308	1259	1234	1110	1110
20 W	1659	1705	1641	1610	1449	1449	1278	1313	1264	1239	1115	1115	1776	1824	1756	1722	1549	1549
28 W	2228	2290	2204	2160	1944	1944	1716	1763	1697	1663	1497	1497	2383	2450	2358	2311	2080	2080

Efficacy

CRI	90+ CRI						95+ CRI						80+ CRI					
BEAM	15°	25°	35°	50°	80°	90°	15°	25°	35°	50°	80°	90°	15°	25°	35°	50°	80°	90°
14 W	85	87	84	82	74	74	65	67	64	64	57	57	91	93	90	88	79	79
20 W	83	85	82	81	73	73	64	65	63	62	56	56	88	91	87	86	77	77
28 W	80	82	79	77	70	70	61	63	61	59	53	53	85	87	84	82	74	74

MULTIPLIERS

Please follow the multiplier tables to ensure correct lumen value. Beams, CCT, baffle colors and accessories will change the lumen value.

CCT	
2700K	0.9
3000K	0.95
3500K	1
4000K	1.05

BAFFLE COLOR		
Gasketed bevel	White	1
	Black	1

ACCESSORIES	
Soft diffused lens, Solite	1
Frosted lens	0.8
Hex louver	0.86

For SOLA and DUO, please consult factory.

Interface Engineering
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

AERA 4" SEAL CYLINDER

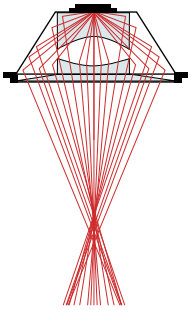
SURFACE

Lumenwerx

Technical Specifications

OPTIC

XPoint™ Refraction Technology optics provide precise optical control in a remarkably compact form. Micro optical paths from the chip on board converge and then disperse in precise beam angles, resulting in a crisp and exacting light quality.



LIGHT SOURCE

Static white

Compact COB (Chip-On-Board) LED module, available in 2700K, 3000K, 3500K and 4000K with a choice of 80+ CRI, 90+ CRI, or 95+ CRI, with elevated R9 value for 90+ CRI and above. Color consistency is maintained to within 2 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

Chromawerx SOLA

Chromawerx SOLA is single-channel control that dims output while warming the color temperature in a pre-determined relationship. A simple analog control adjusts a specially populated LED array to emulate the effect of dimming a filament source.

Chromawerx DUO

Chromawerx DUO offers a two-channel control system which uses analog or digital protocols for synchronous control of both cool (6500K) to warm (2700K) LED arrays - maintaining a CRI above 90. The range of color DUO offers is useful for entraining circadian rhythms, stimulating alertness, and compensating for jet lag among other applications. The Chromawerx drivers are programmed to limit maximum light output and power usage across all color temperatures. When paired with DALI drivers (DDA/DDA8), color tuning follows a linear dimming curve.

ELECTRICAL

Unless otherwise specified, dimming down to 1%. At maximum driver load: efficiency>84%, PF>0.9, THD<20%.
Integral: 0-10V, ELV, TRIAC
Remote: 0-10V, ELV, TRIAC, Lutron Hi-Lume 1% EcoSystem, DALI, eldoLED 0.1% SOLOdrive 0-10V, eldoLED 1% ECOdrive 0-10V, DMX, Lutron DALI-2 digital
Emergency battery option: Remotely-installed, long-life, high-temperature, maintenance-free, Bodine Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. IOTA and Fulham options available upon request. Minimum of 90 minutes operation, and recharge time of 24 hours. For fixtures less than 10 W, the battery provides 6 W of emergency light output. For fixtures 10 W and over, the battery provides 10 W.

PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

CONSTRUCTION

Housing: Die-cast and extruded aluminum
Canopy: Flat and direct
Finish: Textured matte white and black. Custom colors also available (provide RAL #). Specular and semi-specular finishes are also available for Baffle.
Heat sink: Die-cast aluminum
Baffle: Die-cast aluminum
Baffle style: Gasketed bevel

WEIGHT

8": 4.4 lbs - 2.0 kg
10": 5.5 lbs - 2.5 kg
12": 6.6 lbs - 3.0 kg

ACCESSORIES


Soft diffused lens, Solite


Frosted diffused lens


Hex louver

Interface Engineering
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
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AERA 4" SEAL CYLINDER

Lumenwerx

SURFACE

ENVIRONMENT

For the standard temperature range (STR) option, ambient temperature at fixture location shall be within 0°C/32°F to 25°C/77°F.
For the extended temperature range (ETR) option, ambient temperature at fixture location shall be within -30°C/-22°F to 40°C/104°F.

CERTIFICATION

ETL: Suitable for wet locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

WARRANTY

Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

www.lumenwerx.com
T (514) 225-4304

Intertek

PoE

Interface Engineering
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

Edge-lit pole-top luminaire · Asymmetric

BEGA

Type:
BEGA Product:
Project:
Modified:

Application
With an elegant form and extraordinary glare control, this pole top luminaire provides visual interest both day and night. Designed to illuminate parking areas, roadways and walkways. Provided with slip fitter to fit 3" O.D. poles.

Materials
Optically textured UV-stabilized acrylic diffuser
Marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy
High temperature silicone gasket
Mechanically captive stainless steel fasteners
Integral surge protector
Pure anodized aluminum reflector

NRTL listed to North American Standards, suitable for wet locations
Protection class IP 65

Weight: 21.4 lbs.

EPA (Effective projection area): 0.7 sq. ft.

Electrical

Operating voltage	120-277V AC
Minimum start temperature	-30° C
LED module wattage	23.6 W
System wattage	28.0 W
Controllability	0-10V dimming down to 1%
Color rendering index	Ra > 80
Luminaire lumens	2297 lm
LED service life (L70)	60000 hrs

LED color temperature
☐ 4000K (K4)
☐ 3500K (K35)
☐ 3000K (K3)
☐ 2700K (K27)

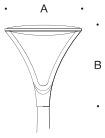
BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish
All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unidure® finish provides superior fade protection in Black, Bronze, and Silver. BEGA standard White is a super durable polyester powder. Optionally available RAL, custom, and premium colors provided in polyester powder and/or liquid paint.

Available colors
☐ Black (BLK)
☐ Silver (SLV)
☐ RAL:
☐ Bronze (BRZ)
☐ White (WHT)
☐ CUS:

Available options

☐ CUS	Custom finish
☐ FSC	Fusing
☐ MGU	Marine grade undercoat
☐ RAL	RAL Classic, matte finish



Edge-lit pole-top luminaire · Asymmetric

	LED	A	B
B84121	23.6 W	$20^{5}/_{8}$	$22^{1}/_{4}$

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Interface Engineering
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

SQUERO COMBINATION

PENDANT

STATIC WHITE, BIOS

Lumenwerx

Declare.

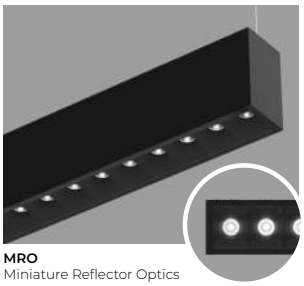
5 YEAR WARRANTY

DESCRIPTION

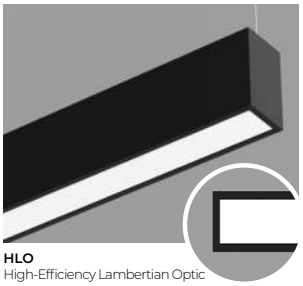
Squero Combination brings style and flexibility to linear lighting systems. Less than 2" wide, Squero offers a variety of optics, each providing a different visual texture, as well as photometric performance. Squero Combination allows various optics to be combined in a single luminaire. Optional modules are also available for accent lighting. It can be installed as individual luminaires or in continuous runs. See separate spec sheets for Squero and Squero Combination Pattern.

SENSORS
For latest information on sensors, click here.

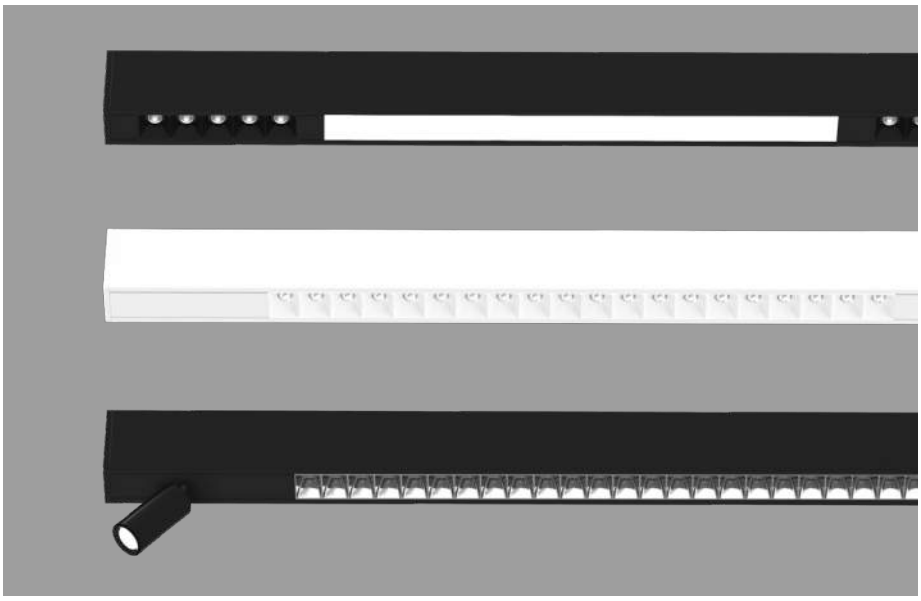
Up to 145 lm/W performance

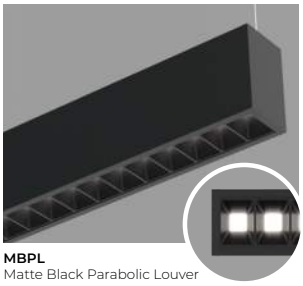


MRO
Miniature Reflector Optics

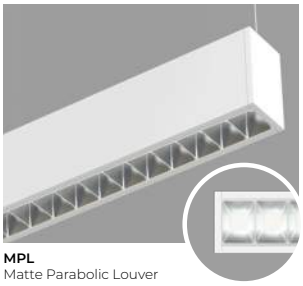


HLO
High-Efficiency Lambertian Optic

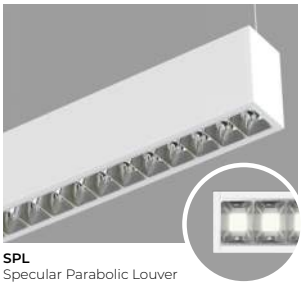




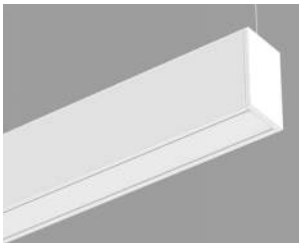
MBPL
Matte Black Parabolic Louver



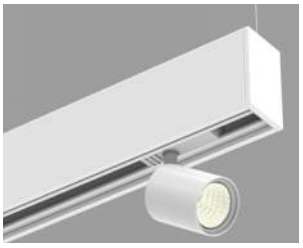
MPL
Matte Parabolic Louver



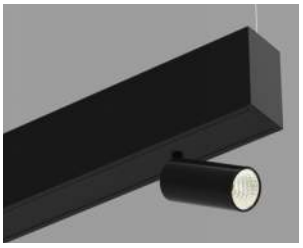
SPL
Specular Parabolic Louver



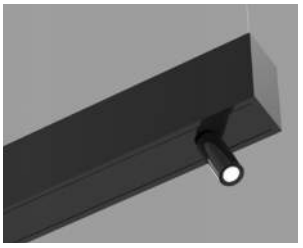
BLA
Blank



ITRLMX, ITR
Integrated Track



AAM
Adjustable Accent Module



MS
Micro Spot Module

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

Intertek

SQUERO-COMBO-PENDANT-SPEC-REV4

June 25, 2025

bios PoE

Interface Engineering
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

SQUERO COMBINATION

PENDANT

STATIC WHITE, BIOS

Lumenwerx

Project: _____

Type: _____

Order Guide

Example: SQUCOMP-D-5FT-MRO18-2FT-HLO-2FT6IN-BLA-6IN-WH-NA-SW-80CRI-350LMF-NA-27K-120V-D1-1C-NA-ACS-W-NA-NA-1AAM21(80CRI-350LM-27K-W-NA)

A drawing of your combination is required - anything from a line drawing to an architectural drawing.

LUMINAIRE ID	DISTRIBUTION	TOTAL LUMINAIRE LENGTH [1]	DIRECT OPTICS [3,4] Specify the total length for each required optic.	MRO COLOR	INDIRECT OPTIC Specify NA for Direct fixture
SQUCOMP					
SQUCOMP - Squero Combination Pendant	**DI** - Direct/Indirect **D** - Direct	**#FT#IN** [2] - Specify the total nominal length (#) in 1' and/or 1" increments **Standard nominal lengths:** Single units: 4' to 12' Continuous runs: lengths over 12'	**MRO18** [5] - 18 degree Miniature Reflector Optic FT 0 IN **MRO35** [5] - 35 degree Miniature Reflector Optic FT 0 IN **MRO55** [5] - 55 degree Miniature Reflector Optic FT 0 IN **MBPL** [6] - Matte Black Parabolic Louver FT **MPL** [6] - Matte Parabolic Louver FT **SPL** [6] - Specular Parabolic Louver FT **HLO** - High-Efficiency Lambertian Optic FT IN **BLA** [7] - Blank FT IN **ITRLMX** [8] - Integrated track by Lumenwerx FT IN **ITR** [8,9] - Integrated track by others FT IN	**WH** [10] - White **BK** [10] - Black **NA** - Not applicable	**WIO2** [11] - Widespread Indirect Optic **TIO** [12] - Translucent Indirect Optic **WAI2** [12] - Widespread Asymmetric Indirect Optic **NA** - Not applicable

[1] Total luminaire length should equal the sum of all the direct optic lengths.
[2] Minimum fixture length is 4'.
[3] Specify MROs in 6" increments, Parabolic Louvers in 1' increments, HLO and Blank in 1" increments.
[4] The minimum total length per louver/optic must be 2' in each section of the fixture.
[5] Not available with BIOS.
[6] Not available with BIOSTU.
[7] A minimum 6" blank section must be specified for each AAM or Micro Spot option.
[8] Specify track length in 1' and/or 1" increments.
[9] Track by others and installed by Lumenwerx. Consult factory.
[10] Only available with MRO optics.
[11] Not available with BIOSTU.
[12] Not available with BIOS.

LIGHT SOURCE	CRI	DIRECT LUMEN PACKAGE	INDIRECT LUMEN PACKAGE Specify NA for Direct fixture	COLOR TEMP.	VOLTAGE
SW - Static white **BIOSST** [13] - BIOS Biological Static **BIOSDY** [13] - BIOS Biological Dynamic **BIOSTU** [13] - BIOS Biological Tunable [13] See page 7 for details.	**80CRI** - 80+ CRI **90CRI** [14] - 90+ CRI [14] Not available with BIOS.	**350LMF** - Eco low output 350 lm/ft **500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** [15,16] - High output 1000 lm/ft **NA** - Not applicable [15] Not available with MBPL optic. [16] Not available with BIOS.	**350LMF** - Eco low output 350 lm/ft **500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** [17,18,19] - High output 1000 lm/ft **NA** - Not applicable [17] Not available with WAI2. [18] For Direct/Indirect, Direct must not exceed 750 lm/ft. [19] Not available with BIOS.	**27K** [20] - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** [20] - 5000K [20] Not available with BIOS.	**120V** - 120V **277V** - 277V **UNV** - 120V-277V **347V** [21] - 347V [21] Available with D1 driver only.

DRIVER [22]	ELECTRICAL	ELECTRICAL SECTIONS (optional) [29,30]	MOUNTING [35]	FINISH [36]
D1 - 1% 0-10V **ELV** [23] - ELV 120V **TRI** [23] - TRIAC 120V **DA** [24] - DALI **LDE1** [24] - Lutron Hi-lume 1% Eco **ELD1** - eldoLED 1% ECOdrive 0-10V **ELD0** - eldoLED 0.1% SOLOdrive 0-10V [22] PoE (Power-over-Ethernet) compatible. Consult factory for details. [23] Available with 120V only. [24] On-site commissioning is required.	**1C** - 1 circuit **2C** [25] - 2 circuits **#MC** [26] - Multi circuit **EC** - Emergency-powered fixture **NL** - Night light fixture **DL** - Daylight fixture **GTD** [27,28] - Generator transfer device fixture [25] Available for Direct/Indirect only. Separate direct and indirect circuits. [26] Specify total number of circuits (#), including any required for electrical section or module options. Provide drawing or layout specifications. Minimum 4' section per circuit. [27] Minimum 4' fixture. [28] Not available with 347V.	**#EC##** [31] - Emergency-powered section **#NL##** [31] - Night light section **#DL##** [31] - Daylight section **#GTD##** [31,32,33] - Generator transfer device section **#EMB** [33,34] - Emergency battery **NA** - None [29] Specify with multi circuit (#MC) electrical option only. [30] Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. [31] Specify quantity (#), and section length in inches (##). [32] Minimum 4' section. [33] Not available with 347V. [34] Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section. For Direct/Indirect, minimum 8' fixture.	**ACS** - Aircraft cable, standard **STS** - Stem, standard **ACC( )** - Aircraft cable, custom **STC( )** - Stem, custom [35] Standard canopies are black for black fixtures, and white for all other finishes. See page 3 for full details on standard and custom options.	**W** - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL# [36] Blank finish will match fixture finish.

CONTROL [37]	OPTIONS [43]	MODULE (optional) [45,46]
STANDALONE CONTROLS [38,39] Specify the quantity (#) of sensors per fixture. **#OMS** [40] - Onboard Occupancy **#OMS##** [41] - Onboard Occupancy with bi-level dimming **#ODS** - Onboard Daylight **#OCS** - Onboard Occupancy & Daylight CONNECTED CONTROLS [42] **LU** - Lutron **AWNR** - Lutron Athena Wireless Node RF Only **AWNS** - Lutron Athena Wireless Node Sensor **ENC** - Encelium **WL** - Cooper Wavelinx **AN** - Acuity nLight **CA** - Casambi **LG** - Legrand **NA** - None [37] Standalone and connected control options cannot be combined. [38] Available with D1 driver and 1 circuit options only. [39] Minimum 4' per zone. Provide control zone length. [40] Fixture turns off when no occupancy. [41] Fixture dims to specified light level % (##). [42] Consult factory for connected controls.	**FU120** - Fuse 120V **FU277** - Fuse 277V **CTB9** [44] - T-bar caddy clip, 9/16" **CTB15** [44] - T-bar caddy clip, 15/16" **CTG9** [44] - Tegular caddy clip, 9/16" **CTG15** [44] - Tegular caddy clip, 15/16" **CST** [44] - Screw slot caddy clip **NA** - None [43] Separate codes with a "+" if more than one is specified. [44] Available with aircraft cable only.	**#AAM21( )** - AAM 21° **#AAM30( )** - AAM 30° **#AAM36( )** - AAM 36° **#MS25( )** - Micro Spot 25° **#MS35( )** - Micro Spot 35° **#MS50( )** - Micro Spot 50° **NA** - None [45] See page 3 for ordering details. [46] Not available with ELV/TRI driver options.

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
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www.lumenwerx.com

Intertek

SQUERO-COMBO-PENDANT-SPEC-REV4 June 25, 2025

bios PoE

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SQUERO COMBINATION

PENDANT

STATIC WHITE, BIOS

Lumenwerx

Module Code

For a module, specify the options in the parentheses.
The light source is static white.
CRI of module matches specification of main fixture.

Examples: 1AAM21(5W-35K-W-NA)
1MS25(5W-27K-W)

MODULE (optional)

MODULE [1,2]	WATTAGE	COLOR TEMPERATURE	FINISH	OPTION
#AAM21( ) - AAM 21° **#AAM30( )** - AAM 30° **#AAM36( )** - AAM 36° [1]Specify quantity (#). [2]6" blank per module. Blank finish will match fixture finish.	**5W** - 5 W, up to 364 lm output **8W** - 8 W, up to 624 lm output	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K	**W** - Matte white **B** - Matte black	**HCL** - Honeycomb louver **NA** - None

MODULE [1,2]	WATTAGE	COLOR TEMPERATURE	FINISH
#MS25( ) - Micro Spot 25° **#MS35( )** - Micro Spot 35° **#MS50( )** - Micro Spot 50° [1]Specify quantity (#). [2]6" blank per module. Blank finish will match fixture finish.	**5W** - 5 W, up to 430 lm output	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K	**W** - Matte white **B** - Matte black

Pendant Mounting Code

Aircraft Cable

Standard

ACS - Aircraft cable, standard

- Ø 5" for power canopy
- Ø 3" for non-power canopy
- Canopies are black for black fixtures, and white for all other fixture finishes
- Power cord is black for black fixtures, and white for all other fixture finishes
- Aircraft cable length is 36"

Custom

Example: ACC(3NPC-72IN-W-PCB-NA)

ACC( ) - Aircraft cable, custom

NON-POWER CANOPY SIZE	AIRCRAFT CABLE LENGTH	CANOPY FINISH	POWER CORD COLOR	OPTION
3NPC - Ø 3" non-power canopy **5NPC** - Ø 5" non-power canopy	**36IN** - 36" **72IN** - 72" **120IN** - 120" **#IN** [1] - Other lengths, specify in inches [1]Maximum length is 288". For longer lengths, please consult factory.	**W** - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	**PCW** - White **PCB** - Black	**SEM** [2] - Seismic mounting **SLC** [2] - Sloped ceiling for aircraft cable **NA** - None [2]Not available with the Ø 3" non-power canopy size.

Stem

Standard

STS - Stem, standard

- Ø 5" for power canopy
- Ø 5" for non-power canopy
- Canopies are black for black fixtures, and white for all other fixture finishes
- Stem finish is the same color as fixture
- Stem length is 18"
- Stem is not field adjustable

Custom

Example: STC(5NPC-36IN-W-STW-SLS)

STC( ) - Stem, custom

NON-POWER CANOPY SIZE	STEM LENGTH	CANOPY FINISH	STEM COLOR	OPTION
5NPC - Ø 5" non-power canopy	**18IN** - 18" **36IN** - 36" **#IN** [3] - Specify length in inches [3]Minimum length is 6". Maximum length is 72". Stem is not field adjustable.	**W** - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	**STW** - Matte white **STAL** - Aluminum **STB** - Matte black **STCF#** - Custom finish, specify RAL#	**SLS** - Sloped ceiling for stem **NA** - None

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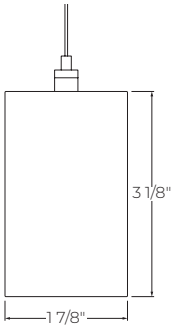
SQUERO COMBINATION

Lumenwerx

PENDANT

STATIC WHITE, BIOS

Dimensions



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SQUERO COMBINATION

PENDANT

STATIC WHITE, BIOS

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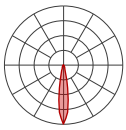
Photometrics

Values calculated based on a 4' fixture at 3500K and 80+ CRI for all optics.

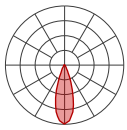
DIRECT OPTICS

MRO18



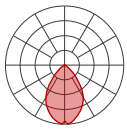
LM/FT	W/FT	LM/W
350	2.7	130
500	4.0	125
750	6.4	118
1000	9.1	110

MRO35



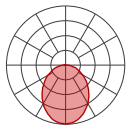
LM/FT	W/FT	LM/W
350	2.9	121
500	4.3	116
750	6.9	108
1000	9.9	101

MRO55



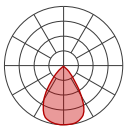
LM/FT	W/FT	LM/W
350	3.2	109
500	4.8	104
750	7.7	97
1000	11.0	91

HLO



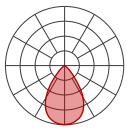
LM/FT	W/FT	LM/W
350	3.1	112
500	4.6	108
750	7.3	103
1000	10.2	98

MBPL



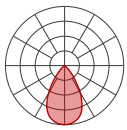
LM/FT	W/FT	LM/W
350	5.2	67
500	7.5	66
750	11.7	64

MPL



LM/FT	W/FT	LM/W
350	3.5	99
500	5.1	98
750	7.7	98
1000	10.6	95

SPL



LM/FT	W/FT	LM/W
350	3.1	113
500	4.4	113
750	6.7	112
1000	9.1	109

MULTIPLIER TABLES - CCT/CRI

Use these tables to get results for different color temperatures and CRI for all Direct and Indirect photometric tables.

MRO18 / MRO35 / MRO55

CCT	WATTS		LPW	
	80+ CRI	90+ CRI	80+ CRI	90+ CRI
2700K	1.04	1.19	0.96	0.84
3000K	1.00	1.15	1.00	0.87
3500K	1.00	1.12	1.00	0.89
4000K	0.99	1.10	1.01	0.91
5000K	0.94	1.06	1.06	0.94

MBPL / MPL / SPL

CCT	WATTS		LPW	
	80+ CRI	90+ CRI	80+ CRI	90+ CRI
2700K	1.04	1.19	0.96	0.84
3000K	1.00	1.15	1.00	0.87
3500K	1.00	1.12	1.00	0.89
4000K	0.99	1.10	1.01	0.91
5000K	0.94	1.06	1.06	0.94

HLO

CCT	WATTS		LPW	
	80+ CRI	90+ CRI	80+ CRI	90+ CRI
2700K	1.05	1.27	0.95	0.79
3000K	1.02	1.23	0.98	0.81
3500K	1.00	1.19	1.00	0.84
4000K	1.00	1.19	1.00	0.84
5000K	0.96	1.12	1.04	0.89

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SQUERO COMBINATION

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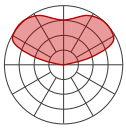
PENDANT

STATIC WHITE, BIOS

Values calculated based on a 4' fixture at 3500K and 80+ CRI for all optics.

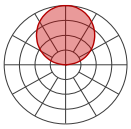
INDIRECT OPTICS

WIO2



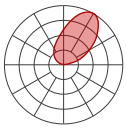
LM/FT	W/FT	LM/W
350	2.4	145
500	3.5	141
750	5.5	136
1000	7.7	130

TIO



LM/FT	W/FT	LM/W
350	2.8	127
500	4.0	124
750	6.3	119
1000	8.8	114

WAI2



LM/FT	W/FT	LM/W
350	2.5	139
500	3.7	135
750	5.8	130

MULTIPLIER TABLES - CCT/CRI

Use these tables to get results for different color temperatures and CRI for all Direct and Indirect photometric tables.

WIO2 / TIO / WAI2

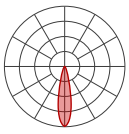
CCT	WATTS		LPW	
	80+ CRI	90+ CRI	80+ CRI	90+ CRI
2700K	1.05	1.27	0.95	0.79
3000K	1.02	1.23	0.98	0.81
3500K	1.00	1.19	1.00	0.84
4000K	1.00	1.19	1.00	0.84
5000K	0.96	1.12	1.04	0.89

DIRECT/INDIRECT - LPW CALCULATION

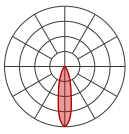
For Direct/Indirect performance values, follow the formula.

$$\frac{\left(\text{DIRECT LM/FT} + \text{INDIRECT LM/FT}\right)}{\left(\text{DIRECT W/FT} + \text{INDIRECT W/FT}\right)} = \text{LPW}$$

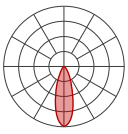
AAM MODULE



AAM 21°



AAM 30°

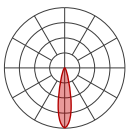


AAM 36°

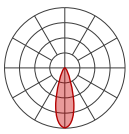
DELIVERED LUMENS

Wattage	5.0									
CRI	80+					90+				
CCT	2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K
Lumen	323	340	350	357	364	265	279	289	299	312
Wattage	8.0									
CRI	80+					90+				
CCT	2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K
Lumen	553	583	600	612	624	454	478	495	513	534

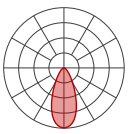
MICRO SPOT MODULE



Micro Spot 25°



Micro Spot 35°



Micro Spot 50°

DELIVERED LUMENS

Wattage	5.0									
CRI	80+					90+				
CCT	2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K
Lumen	373	400	400	432	432	324	344	344	345	372

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PENDANT

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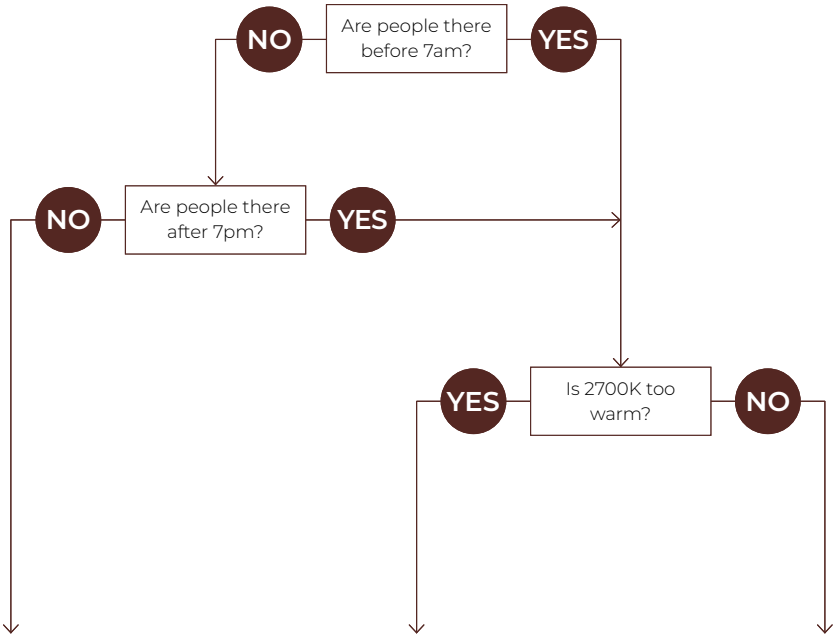
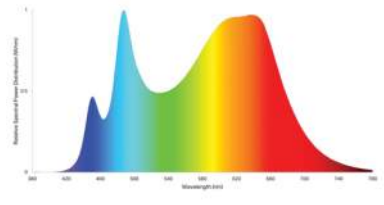
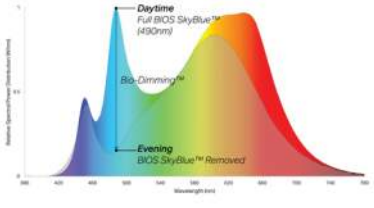
BIOS

Three BIOS Circadian LED solutions are offered – Biological Static, Biological Dynamic, and Biological Tunable. Use the decision tree below to identify when and where to use BIOS Wellness LED Lighting Solutions.



Biological Static BIOSST	Biological Dynamic BIOSDY	Biological Tunable BIOSTU
No CCT change when dimmed	500K shift when dimmed	Dims to 2700K
Daytime solution	Daytime + evening solution	Daytime + evening solution
Spaces in operation during daytime hours, between 7am and 7pm	Spaces in operation overnight, after 7pm and before 7am, and when CCT color shift in the evening is not preferred	Suitable for spaces in operation overnight, after 7pm and before 7am, and where people do not sleep (CCT color shift in the evening is preferred)
E.g. offices, medical/dental offices	E.g. hospitals	E.g. offices, shiftwork
		

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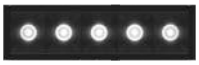
Technical Specifications

DIRECT OPTICS

Miniature Reflector Optic (MRO)

Locates individual, precisely molded TIR elements over each LED emitter, and further shield the source with precise parabolic reflectors. The controlled beam is remarkably comfortable – especially in a small LED luminaire.
MRO is available in a specular black or gloss white finish and creates a distinctive visual texture.
Different TIR elements offer a choice of beam spreads: narrow (18° with SC of 0.3), medium (35° with SC of 0.6), and wide (55° with SC of 0.9). These concentrated distributions can provide effective task illumination in a variety of applications.
Each MRO module is 6" long with five optical chambers.




Parabolic Louvers (MBPL, MPL & SPL)

Parabolic Louver Optics provide excellent shielding and a pleasing crisp visual texture. The precisely molded louvers consist of 1" deep blades and side reflectors with shielding of 50° lengthwise and 45° crosswise.
The parabolic contour of the blades and side reflectors direct light into a comfortable downlight distribution with a spacing criterion of 1.1, while minimizing shadows from the LED array above each cell.
Three finishes are available: matte black, matte, and specular. Specular (SPL) provides higher efficacy, sharper cut-off, and an ultra quiet appearance at shallow viewing angles. Matte (MPL) offers a softer appearance, a wider beam spread, and gentle brightness transition at cut-off. Matte black (MBPL) offers the lowest UGR in Squero as the black parabolic louver is very quiet and glare free. The UGR is the best in class rating of under 10.



High-Efficiency Lambertian Optic (HLO)

The High-Efficiency Lambertian Optic (HLO) shielding of diffusing 0.075" thick acrylic with up to 88% transmission and good source obscuration is combined with matte white side reflectors to create an efficient optical chamber with uniform luminosity.
Luminaire brightness is controlled by the flux-to-shielding area ratio. For visual comfort, avoid high lumen output unless Squero is installed in a high ceiling application. Spacing criteria: 1.2 (longitudinal) x 1.1 (lateral).

Blank (BLA)

Blank covers provide spacing – functional or rhythmic – in the direct component of a Squero Combination luminaire. Covers are sized according to the Combination design, finished to match the luminaire housing, and snap into the aperture.

INDIRECT OPTICS

Widespread Indirect Optic (WIO2)

The Widespread Indirect Optic (WIO2) is a horizontal LED array with a widespread indirect micro prismatic optic that offers an impressive 160° spread. WIO2 creates an even illumination for smooth brightness on the ceiling that can achieve uniformity ratios of up to 2:1.

Uniformity [max/min]

Based on 18' continuous runs, in a 20' x 40' room, 10' wall height

Mounting height from ceiling	Spacing (Center to center)		
	8'	10'	12'
12"	5.5	10.0	9.0
18"	3.5	6.0	6.0
24"	2.5	4.0	4.5

Translucent Indirect Optic (TIO)

The Translucent Indirect Optic (TIO) is composed of a horizontal LED array that has a translucent lens to mask pixilation from the diodes. TIO has a 100° spread in the indirect that is ideal when the fixture is mounted farther away from the ceiling.

Widespread Asymmetric Indirect Optic (WAI2)

The Widespread Asymmetric Indirect Optic (WAI2) offers an upward grazing effect with a 45° forward throw. It softly highlights the ceiling in the up-light while distributing the required illumination of the rest of an interior space. For avoiding glare and enjoying visual comfort, WAI2 is an ideal solution.

LIGHT SOURCE

Static white

Custom linear array of high-flux LEDs mounted onto aluminum-backed circuitry with quick-connect wiring to facilitate service and optimize thermal management. Available in 2700K, 3000K, 3500K, 4000K, and 5000K with a minimum 80+ CRI and an option for 90+ CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

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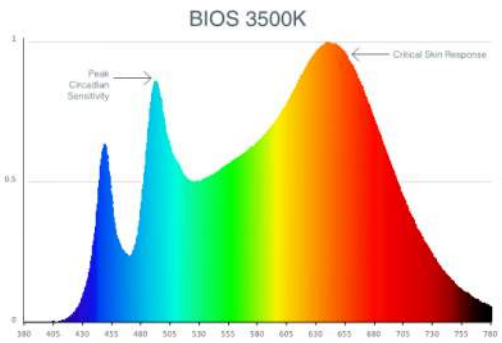
PENDANT

STATIC WHITE, BIOS

BIOS
BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being.
The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



Three BIOS solutions are offered: BIOS Biological Static (BIOSST), BIOS Biological Dynamic (BIOSDY), and BIOS Biological Tunable (BIOSTU). See page 7 for details.

LUMINAIRE LENGTH

Squero is made up of standard 4' to 12' sections that may be joined together to create longer continuous run lengths. Exact run lengths must be noted in the product code. The minimum individual section available is 4'.
All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277 VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% Eco, eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, ELV, TRIAC, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

PoE
Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

Electrical sections
Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.
Code: 2MC-2EC96

Example 2: A 16' Direct/Indirect fixture with separate circuits for direct and indirect, and with one 4' night light section on the direct side on a third circuit.
Code: 3MC-1NL48

Example 3: A 24' Direct fixture with one 4' generator transfer device section.
Code: 1MC-1GTD48

Battery
Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required.
Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

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SQUERO COMBINATION

Lumenwerx

PENDANT

STATIC WHITE, BIOS

MOUNTING

Pendant fixtures can be mounted either with aircraft cable or with stem. See page 3 for details.

FINISH

Interior: 95%, reflective matte powder coated white paint
Exterior: Matte white, matte black, or aluminum powder coating. Custom finishes are also available.

CONTROLS

Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.
For latest information on sensors, click here.

Standalone controls
An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, sensor location, blank size, and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details.
Three types are available:

OMS: An integral Passive InfraRed (PIR) sensor turns luminaires on and off automatically with field-adjustable time out period. No wall control is used. Coverage pattern for large motion has a 12' diameter with the sensor mounted 8' above the floor; for small motion, the pattern has an 8' diameter. Typically, one sensor is required for every 10' of a continuous luminaire run.

ODS: An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

OCS: Both an occupancy and a daylight sensor are installed in the luminaire.

Connected controls
With connected controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand, and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

Lumenwerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by Lumenwerx, depending on the control system manufacturer.

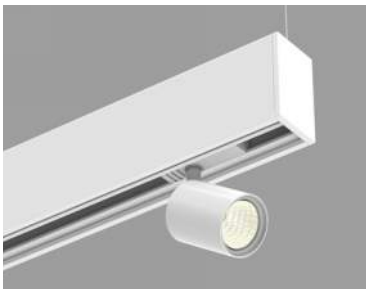
Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

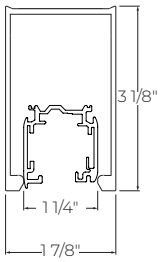
To indicate a Lumenwerx luminaire with connected controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact factory to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

INTEGRATED TRACK

The integrated track is available with single units and continuous runs, with or without sections of integrated LED. Two options are available: one supplied and installed by Lumenwerx, and the other by others and installed by Lumenwerx. Detailed specifications of the track system must be supplied. Consult factory for details.





3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
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Intertek

SQUERO-COMBO-PENDANT-SPEC-REV4 June 25, 2025

bios PoE

Interface Engineering
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

SQUERO COMBINATION

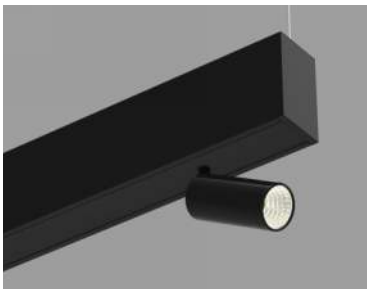
PENDANT

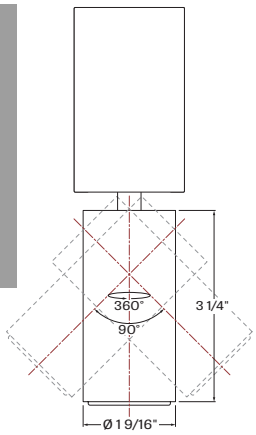
STATIC WHITE, BIOS

ADJUSTABLE ACCENT MODULE

The Adjustable Accent Module (AAM) features a Ø 1 9/16" x 3 1/4" cylinder that rotates 360° and tilts 90°. The LED light source is coupled with TIR optics to provide beam angles of 21°, 30°, and 36° while producing up to 600 lumens. LED light source CCT options are 2700K, 3000K, 3500K, 4000K, and 5000K, available in either 80+ CRI or 90+ CRI.

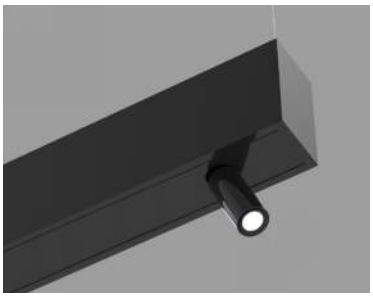
The AAM module can be selected in either a white or black finish and a honeycomb louver accessory is also available. The AAM driver is mounted above the cylinder, inside the SQUERO housing and accepts universal input voltage (120-277 VAC) while providing 0-10V dimming control.

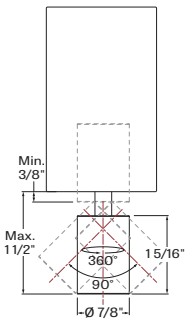




MICRO SPOT MODULE

The Micro Spot is a Ø 7/8" x 1 5/16" adjustable spotlight that extends, retracts, rotates 360°, and tilts 90°. Its LED light source is coupled with a TIR refractor to provide beam angles of 25°, 35°, and 50°, while producing up to 400 lumens. LED light source CCT options are 2700K, 3000K, 3500K, 4000K, and 5000K, available in either 80+ CRI or 90+ CRI. The Micro Spot is offered in a white or black finish. The Micro Spot driver is mounted within the luminaire housing and accepts universal input voltage (120-277 VAC) with 0-10V dimming control.





CONSTRUCTION

Housing: Extruded aluminum, up to 90% recycled content
Interior brackets: Die-formed cold rolled steel sheet
Joining system: Die-cast aluminum
Louvers: Injection molded optical grade polycarbonate, up to 95% reflective
Light guide: Clear PMMA laminated with microstructure film formed into optical TIR/extraction form
End caps: Die-cast aluminum
Hanger: Chromed griplock securely attached in end caps and/or joiners with stainless steel hardware
Aircraft cable suspension: Ø 1/16" stainless steel aircraft cable
Stem: Ø 1/2" threaded steel tube

WEIGHT

4': 10.02 lbs - 4.54 kg
6': 15.18 lbs - 6.89 kg
8': 19.78 lbs - 8.97 kg

CERTIFICATIONS

ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.
Declare: LBC Red List Approved

WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

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SQUERO-COMBO-PENDANT-SPEC-REV4 June 25, 2025

Interface Engineering
100 SW Main Street, Suite 1600
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TEL 503.382.2266
www.interfaceengineering.com

SPEQ-M

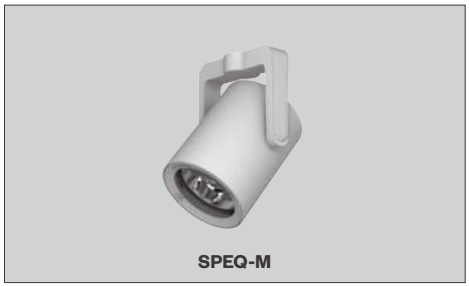
Medium Cylinder Track Head

amerlux

PROJECT: **TYPE:**

Features

The SPEQ Series fixtures are engineered for longevity and performance. The SPEQ-M track head from Amerlux seamlessly blends a clean, minimal aesthetic with industry-leading optical performance. Achieving a maximum of 3,000 delivered lumens @90 CRI, the SPEQ-M provides exceptional illumination. Our proprietary high-end optical designs ensure your space is lit perfectly and efficiently. The fixture boasts a discreet design with no visible heat sink or venting, and a perfectly matched snoot delivers excellent glare control while maintaining the fixture's sleek lines. The integral driver offers full functionality, including low-end dimming and robust 2.5 KV surge protection. Ideal for galleries, retail environments, and commercial interiors, the SPEQ-M ensures your lighting is both precise and energy-efficient.



SPEQ-M

Product Overview

Type:	Track Accent & Display
Wattage:	21W, 26W, 30W
Color Temp:	2200K, 2700K, 3000K, 3500K, 4000K
CRI:	90+ typ. CrispWhite & 3K Class A LED's available
Dimming:	TRIAC & ELV, 5% Dim, 120VAC
Weight:	2.5 lbs *(without accessories)*

Certifications

5 year limited warranty AMERLUX LED

Fixture Summary

Performance Data

Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI
21	2323	110.6	14,236	3000K-90+
26	2723	104.7	16,656	3000K-90+
30	3068	105.8	18,792	3000K-90+

IES files available on website.
Data is based on Very Narrow Flood optic.
See pg 5-7 for other beam spreads.

Electrical Data

	21W		26W		30W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	19.9	0.17	25.3	0.21	30.5	0.25
277V	19.9	0.07	25.3	0.09	30.5	0.11

Electronic constant current LED driver.

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SPEQ-M

Medium Cylinder Track Head

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PROJECT:	TYPE:

Ordering Information

SPEQ-M-A17 . ____ . ____ . ____ . ____ . ____ . ____ . ____ . ____ . ____

1 2 3 4 5 6 7 8 9

1 Model	2 Wattage	3 Finish
SPEQ-M-A17	**21**	**WT** white texture
	26	**BT** black texture
	30	**ST** silver texture
		Other finishes, consult factory

4 Mounting	5 Voltage	6 Beam Spread
TN1 Global GES 1cir/H-Style, 120V	**120**	**SP** spot, 14°
TEK Global TEK 2cir/2neut, 120V	**277** *(not available with LE/TE dimming driver)*	**VNF** very narrow flood, 16°
TN3 Global XTS 3cir, 120V		**NF** narrow flood, 22°
TN2 Global HTEK 2cir/2neut, 277V		**FL** flood, 35°
CT J-Style 1 or 2 cir, 120V		**WF** wide flood, 40°
LOL L-Style 1cir, 120V		**LS** linear spread lens, 54° x 16° *(reduces # of accessories by 1, if applicable)*
CPR Capri 1cir, 120V		
C canopy, 120V or 277V		***For VNSP (very narrow spot, 8°) beam spread, please consult factory.***
CCL2-SCP C-clamp, black, with straight cord*, 6' 120V		
CCL2-CCP C-clamp, black, with coil cord*, 5' 120V		
Notes: * Black cord used for BT & ST finish. White cord used for WT finish.		

7 Color Temp		8 Driver	9 Options/Accessories
90+ CRI		**LE/TE** TRIAC/ELV dimming, 120V only	*(standard front door accepts up to 2 accessories)*
229 2200K-90+	**CRISP** CrispWhite	**ND** non-dimming, 277V only	**SN** snoot *(accepts up to 2 accessories or cross blade + 1 accessory)*
279 2700K-90+	**3CLA** 3K Class A		**HEX** hexcell louver
309 3000K-90+			**SOL** solite beam softening lens
359 3500K-90+			**CB** cross blade *(requires snoot)*
409 4000K-90+			

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SPEQ-M

Medium Cylinder Track Head

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PROJECT:	TYPE:

Specifications

Application

Retail, Museum, Gallery, Hospitality and Commercial accent and display lighting

Construction

Complete die-cast aluminum construction
No exposed wiring

Optical

Patented Amerlux designed TIR optical system.
0-90° lockable tilt, 360° rotation
Tilt indicating marks for common tilt positioning
Beam Spreads: Spot 14°, Very Narrow Flood 16°, Narrow Flood 22°, Flood 35°, Wide Flood 40°; Linear Spread Lens 54° x 16°
Consult factory for VNSP beam spread

LED

Color Temp Options: 2200K, 2700K, 3000K, 3500K, 4000K
CRI: 90+ typ.
CrispWhite* and Class A** 3000K LEDs available
R9 Values: 55 *(90+ CRI)*
Binning: 3-step MacAdam ellipse *(SDCM)*
Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

** **CrispWhite:** CrispWhite Technology delivers the warmth of colors expected from a high 90 CRI solution but also creates the natural crisp white color that is pleasing to the eye. It creates the most impactful lighting ever available, by revealing the richest whites and vibrant colors that pop.*

*** **Class A LED:** Class A LED's have a CRI > 80 and a GAI > 80. CRI defines color "Naturalness" and GAI defines color "Saturation." Both being high delivers rich colors and pure whites.*

Electrical

Wattage: 21W, 26W, 30W
Electronic constant current LED driver, 120VAC input only
Non-dimming driver, 277VAC only
This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Amerlux® recommends using additional surge protection with this unit (supplied by others), surge and over voltage damage is not covered under warranty.

Driver

LE/TE - Leading Edge *(Triac, Forward Phase)* or Trailing Edge *(ELV, Reverse Phase)* autosensing driver dims down to 5% on most dimming systems. 120V only
ND - non-dimming, 277V
All drivers rated for A/C voltage input +/- 10%
See dimming pages for more information.

Finish

Powder coat paint.
Standard Colors: White Texture, Black Texture, Silver Texture
Consult factory for custom RAL powder coat finishes

Mounting

Track, canopy and c-clamp.
Note: Recommend track fixture mounting to horizontal surface mounted/ pendant mounted track only

Certifications

Approved to UL standards as tested by CSA.
Intended for indoor use only.

Warranty

5 year limited warranty

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SPEQ-M

Medium Cylinder Track Head

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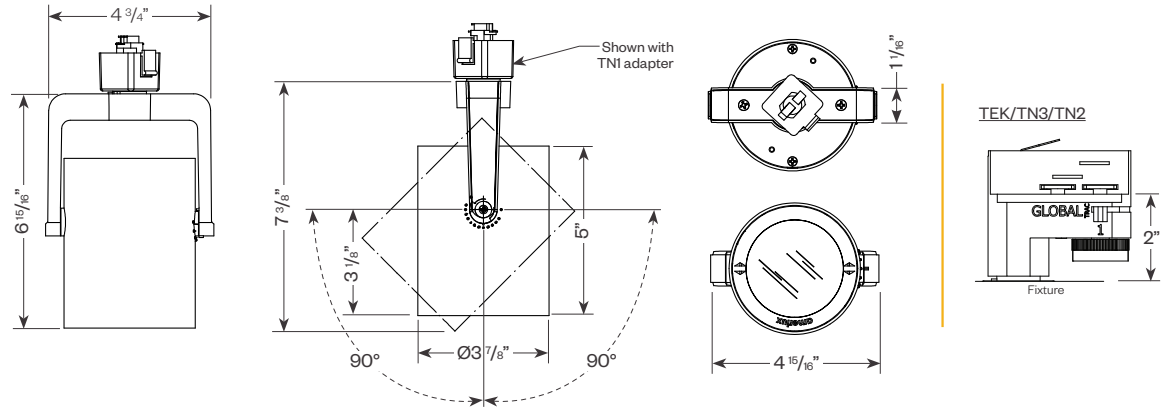
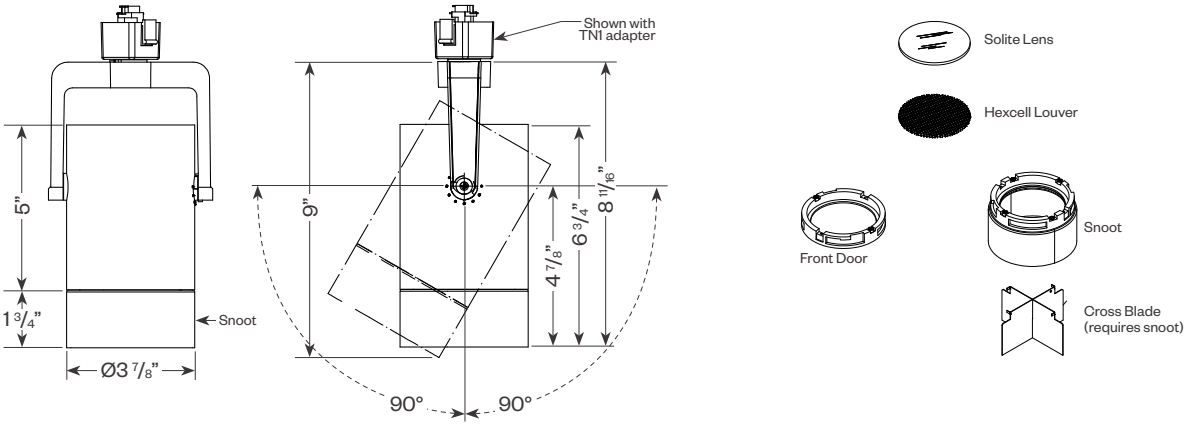
PROJECT:	TYPE:

Product Details

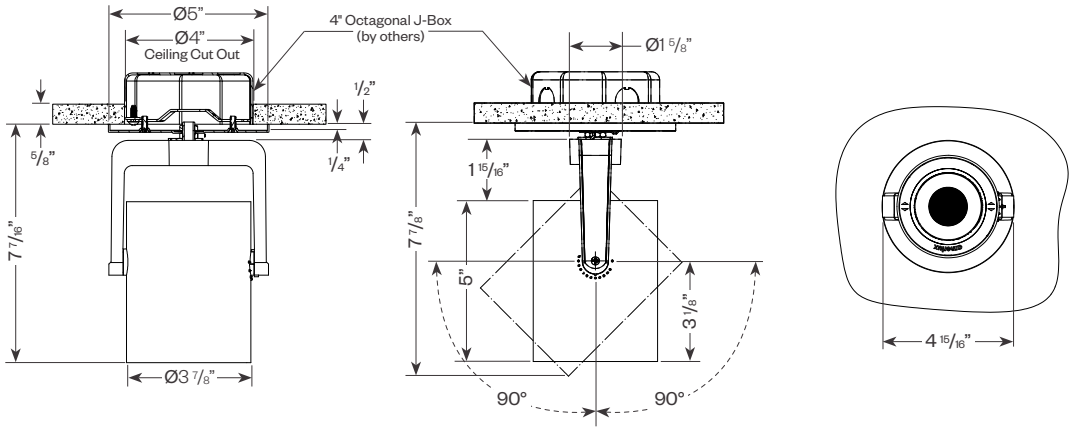
SPEQ-M



SPEQ-M Snoot & Accessories



SPEQ-M Canopy Mount



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SPEQ-M

Medium Cylinder Track Head

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PROJECT:	TYPE:

Performance Data

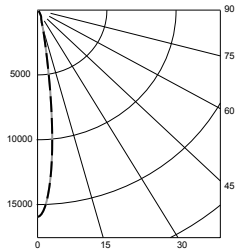
Multiplying Factors: *(Multiplying Factor is based on 3000K-90+ 120V IES file on website)*

CCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP	3CLA
Factor:	0.636	0.978	1.000	1.030	1.056	0.700	0.665

Wattage:	21W	26W	30W
Factor:	1.0	1.17	1.32

21W LED, 3000K-90+CRI *(For FL & WF beam options see pg 6)*

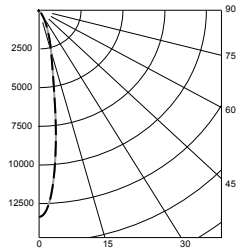
Spot (SP), 14°
LTL # 13387358.08
Lumens: 2162 lm



Candelas at Nadir

Deg	Candela
0	17007
5	12361
15	1539
25	645
35	278
45	132

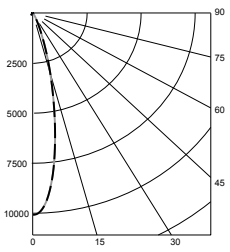
Very Narrow Flood (VNF), 16°
LTL # 13387358.09
Lumens: 2323 lm



Candelas at Nadir

Deg	Candela
0	14236
5	11093
15	2901
25	982
35	141
45	42

Narrow Flood (NF), 22°
LTL # 13387358.10
Lumens: 2184 lm

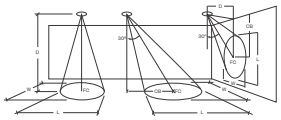


Candelas at Nadir

Deg	Candela
0	10741
5	9486
15	3263
25	546
35	119
45	55

Application Data

Notes and Definitions:
Beam spread is to 50% center beam candlepower *(CBCP)*.
D=Distance to floor or wall.
FC=Footcandles on floor or wall at center beam aiming location.
L=Effective Visual Beam length in feet *(50% of maximum footcandle level)*.
W=Effective Visual Beam width in feet *(50% of maximum footcandle level)*.
CB=Distance across or down to center beam location.



	0° Aiming Angle Horizontal Footcandles				30° Aiming Angle Horizontal Footcandles					30° Aiming Angle Vertical Footcandles					60° Aiming Angle Vertical Footcandles				
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
SPOT	5.0'	680	1.2	1.2	5.0'	438	1.5	1.3	3.0	3.0'	256	2.8	1.3	5.0	3.0'	922	1.2	1.1	2.0
	7.5'	303	1.8	1.8	7.5'	196	2.4	2.1	4.0	4.0'	153	3.4	1.6	6.0	4.0'	656	1.5	1.1	2.0
	10.0'	170	2.6	2.6	10.0'	109	3.3	2.9	6.0	5.0'	97	4.2	2.5	8.0	5.0'	425	1.7	1.4	3.0
	12.5'	110	3.1	3.1	12.5'	72	4.0	3.5	7.0	6.0'	68	5.1	2.8	9.0	6.0'	292	2.1	1.5	3.0
VERY NARROW FLOOD	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	5.0'	570	1.4	1.4	5.0'	368	2.0	1.6	3.0	3.0'	215	3.4	1.6	5.0	3.0'	802	1.6	1.2	2.0
	7.5'	254	2.2	2.2	7.5'	167	2.9	2.6	4.0	4.0'	133	4.1	2.1	6.0	4.0'	569	1.7	1.3	2.0
	10.0'	143	3.0	3.0	10.0'	91	4.0	3.4	6.0	5.0'	82	5.3	2.9	7.0	5.0'	358	2.1	1.6	3.0
	12.5'	92	3.6	3.6	12.5'	61	4.7	4.0	7.0	6.0'	60	6.3	3.2	9.0	6.0'	254	2.4	1.9	3.0
NARROW FLOOD	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	5.0'	431	1.9	1.9	5.0'	278	2.6	2.3	3.0	3.0'	202	3.3	1.9	4.0	3.0'	648	2.0	1.4	2.0
	7.5'	192	3.0	3.0	7.5'	130	3.6	3.3	4.0	4.0'	110	4.5	2.9	5.0	4.0'	456	2.0	1.6	2.0
	10.0'	108	3.9	3.9	10.0'	72	4.9	4.3	5.0	5.0'	72	5.5	3.4	7.0	5.0'	272	2.6	2.3	3.0
	12.5'	69	4.9	4.9	12.5'	47	6.2	5.5	7.0	6.0'	51	6.7	4.0	8.0	6.0'	204	3.0	2.7	3.0

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SPEQ-M

Medium Cylinder Track Head

amerlux

PROJECT:	TYPE:

Performance Data

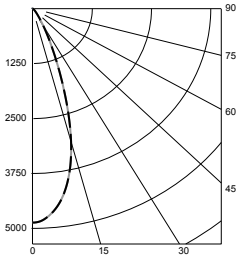
Multiplying Factors: *(Multiplying Factor is based on 3000K-90+ 120V IES file on website)*

CCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP	3CLA
Factor:	0.636	0.978	1.000	1.030	1.056	0.700	0.665

Wattage:	21W	26W	30W
Factor:	1.0	1.17	1.32

21W LED, 3000K-90+ *(For SP, VNF & NF beam options see pg 5)*

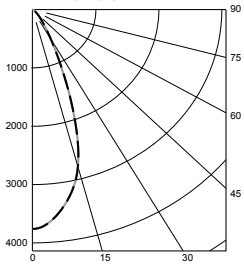
Flood (FL), 35°
LTL # 13387358.11
Lumens: 2146 lm



Candelas at Nadir

Deg	Candela
0	5188
5	4976
15	3335
25	1025
35	243
45	83

Wide Flood (WF), 40°
LTL # 13387358.12
Lumens: 2122 lm

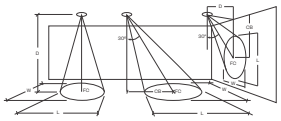


Candelas at Nadir

Deg	Candela
0	4008
5	3854
15	2962
25	1149
35	353
45	131

Application Data

Notes and Definitions:
Beam spread is to 50% center beam candlepower *(CBCP)*.
D=Distance to floor or wall.
FC=Footcandles on floor or wall at center beam aiming location.
L=Effective Visual Beam length in feet *(50% of maximum footcandle level)*.
W=Effective Visual Beam width in feet *(50% of maximum footcandle level)*.
CB=Distance across or down to center beam location.



	0° Aiming Angle Horizontal Footcandles				30° Aiming Angle Horizontal Footcandles					30° Aiming Angle Vertical Footcandles					60° Aiming Angle Vertical Footcandles				
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
FLOOD	5.0'	208	3.0	3.0	5.0'	148	3.5	3.2	2.0	3.0'	132	3.3	2.7	3.0	3.0'	392	2.2	1.8	1.0
	7.5'	93	4.5	4.5	7.5'	66	5.2	4.9	3.0	4.0'	75	4.5	3.4	4.0	4.0'	230	2.9	2.7	2.0
	10.0'	52	5.9	5.9	10.0'	37	7.0	6.5	4.0	5.0'	48	5.6	4.4	5.0	5.0'	150	3.6	3.1	2.0
	12.5'	34	7.4	7.4	12.5'	25	8.8	8.1	5.0	6.0'	33	6.8	5.3	6.0	6.0'	102	4.3	4.0	3.0
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
WIDE FLOOD	5.0'	161	3.3	3.3	5.0'	117	3.8	3.5	2.0	3.0'	117	3.2	2.7	3.0	3.0'	323	2.3	2.0	1.0
	7.5'	71	5.0	5.0	7.5'	52	5.6	5.4	3.0	4.0'	66	4.3	3.6	4.0	4.0'	178	3.2	3.0	2.0
	10.0'	40	6.7	6.7	10.0'	30	7.6	7.4	4.0	5.0'	43	5.4	4.7	5.0	5.0'	118	3.9	3.5	2.0
	12.5'	26	8.4	8.4	12.5'	19	9.6	9.2	5.0	6.0'	30	6.6	5.5	6.0	6.0'	81	4.7	4.5	2.0

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SPEQ-M

Medium Cylinder Track Head

amerlux

PROJECT:	TYPE:

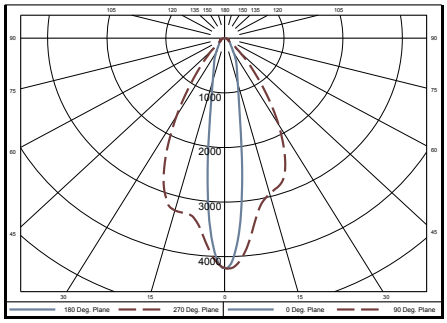
Performance Data

Multiplying Factors: *(Multiplying Factor is based on 3000K-90+ 120V IES file on website)*

CCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP	3CLA
Factor:	0.636	0.978	1.000	1.030	1.056	0.700	0.665

Wattage:	21W	26W	30W
Factor:	1.0	1.17	1.32

Linear Spread (LS), 54° x 16°
LTL # 13387358.13
Lumens: 1720 lm



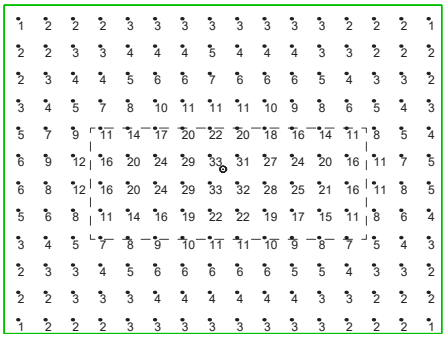
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1423	82.7
0-60	1639	95.3
0-90	1720	100.0
90-180	0	0.0

Luminaire Efficacy = 81.9 lm/W

Application Data

10' Mounting Height

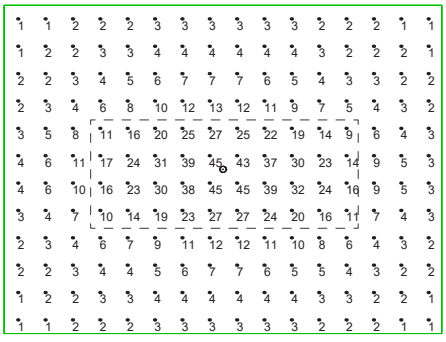


Footcandles on Floor

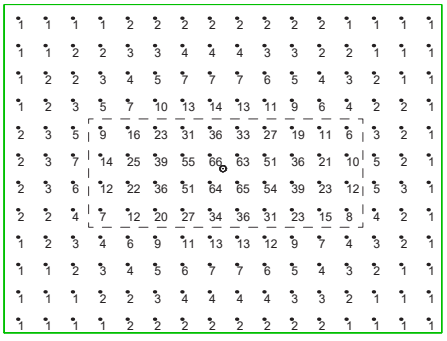
0° Aiming Angle
Horizontal
Footcandles

= Approximate 50% visual beam

8' Mounting Height



6' Mounting Height



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SPEQ-M

Medium Cylinder Track Head

amerlux

PROJECT:	TYPE:

Dimming Compatibility

Amerlux® SPEQ® fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration *(Dimmer, Fixture Quantity, Voltage, etc)* may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

TRIAC *(Forward Phase)* Dimming *(Standard)*

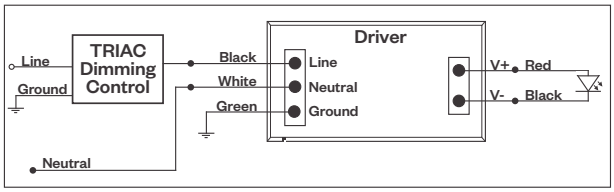
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

Notes:

- 120VAC only
- Dims down to 5% light output *(most cases)*
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

Compatible Dimmers†: Wall Box *(TRIAC 120VAC)*
Lutron "Diva"
Lutron "Nova-T"
Lutron "Maestro"
Lutron "Skylark"

TRIAC Wiring Diagram



ELV - Electronic Low Voltage *(Reverse Phase)* Dimming *(Standard)*

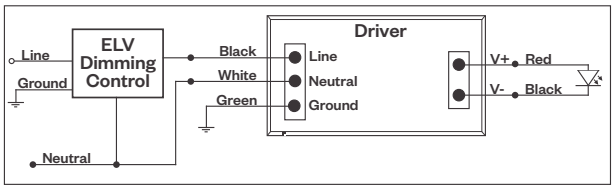
Utilizes specialized "ELV" dimmers.

Notes:

- 120VAC only
- Dims down to 5% light output *(most cases)*
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

Compatible Dimmers†: Wall Box *(ELV 120VAC)*
Lutron "Diva"
Lutron "Nova-T"
Lutron "Maestro"
Lutron "Skylark"
Leviton "Surslide"
Leviton "Vizio"

ELV Wiring Diagram



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Project Name:	Approved By:
Catalog No:	Type No:

SOVEREIGN II

Architectural Edgelit Versatile LED Exit Sign

TITLE 20 COMPLIANT

BAA COMPLIANT

The timeless Sovereign edgelit exit sign has been enhanced to the Sovereign II and continues to set the standard for architectural appeal. New features include a surface mounting canopy that enables for wall, top or end mounting, or for added versatility can be ordered as a "SU" Surface Universal for field selection. A unique ½" square tube pendant features seismic rated and straight tilt, finished to match to the housing selected. The SOVII also has the ability to support an optional low-voltage Razor RZRR3 exit sign (select the REX option). The Sovereign II delivers the perfect balance of safety, performance, and architectural elegance — designed to protect people while seamlessly enhancing every space it serves.

CONSTRUCTION

- Recessed ceiling back box features universal adjustable mounting brackets. Optional old work clips available for installation in existing ceilings
- Full size universal, self-adhesive Chevron arrows with template enable on-site configuration
- Lens Panel is "Last-to-Assemble" snap-in for versatility and ease of installation
- Lens panel can easily be changed from single to double face in the field
- Hinged retaining springs eliminate exposed mounting hardware on recessed model
- SU Surface Universal option allows for field configurable surface mount to a standard j-box, and takes the guess work out of surface mounting applications
- Low profile recessed housing is suitable for old or new work installations and is type IC Rated
- Modular design provides ease of installation and matching configurations
- Quality sealed brushed aluminum finish, white, black, painted brass, painted bronze finishes are available, consult factory for custom finishes
- Contoured, crystal clear laser formed edge lit lens
- Custom legends with white LED light source available to order
- Precision pressure die cast aluminum legend holder, trim and surface mount housing
- Available with a range of information signage or custom graphics to order
- Recessed AC Indicator and Test Switch

ELECTRICAL

- Unique electronic driver circuit provides current control and protection ensuring optimum LED efficiency and life
- SOVII will support an optional low-voltage remote Razor RZRR3 sign (-REX option required; Order RZRR3 Separately).
- Zero current LVCO ensures positive charge acceptance following extended discharge
- Brownout sensing assures emergency illumination during periods of low line voltage
- All versions feature fully integrated electronic components
- Universal 120/277 VAC field selectable input
- Battery Diagnostic Circuit monitors battery status, detects cell failure and issues alert of reduced capacity and the need to replace battery
- Diagnostic Battery Monitoring on all "EM" models
- Premium long life high temperature rated, fused Nickel Cadmium battery, operating temperature 10° to 40°C
- Average Power Consumption: <3W
- Additional power consumption details in installation guide

ILLUMINATION

- Refractive light guide engineered to optimize LED utilization and illumination uniformity
- Maintenance free LED Light source with 25+ years life expectancy

CERTIFICATION

- Approved for use in New York City calendar #48851
- UL Listed 3 hour emergency duration standard
- UL listed for damp locations 0° to 40° C
- UL 924 Listed by Underwriters Laboratories and meets or exceeds all performance standards as required by NFPA
- 101, NFPA 70- NEC and OSHA
- California Energy Commission (CEC) Title 20 Compliant
- Buy American Act compliant

WARRANTY

- 5 year limited warranty - view complete warranty terms online at www.evenlite.com/terms-warranty.

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SOVEREIGN II

Architectural Edgelit Versatile LED Exit Sign

ORDERING GUIDE

SOVII-EM-R-1C-BA-RC-AR-SD-FT

MODEL	OPERATION	LETTER COLOR	FACE COUNT	HOUSING COLOR	MOUNTING	
					STANDARD	OPTIONAL
SOVII	**AC** AC Only (120/277 VAC)	6" LEGEND SIZE	STANDARD	**BA** Brushed Aluminum	**RC** Recessed Ceiling[3]	**SU** Surface Universal
	EM Battery Backup Emergency	**R** Red	**1C** Single Face, Clear Background	**BK** Black	**UP** Recessed Mount[4]	**PA** 12" Swivel Pendant
		G Green	OPTIONAL	**BR** Brushed Brass	**SC** Surface Ceiling	**PB** 24" Swivel Pendant
		8" LEGEND SIZE	**1M** Single Face, Mirror Background	**WH** White	**SW** Surface Wall	**PC** 36" Swivel Pendant
		NR Red	**1W** Single Face, White Background	**CC** Custom Color[2]	**SE** Surface End	**PD** 48" Swivel Pendant
		NG Green	**2M** Double Face, Mirror Background[1]	**BZ** Painted Bronze		**PE** 60" Swivel Pendant
			2W Double Face, White Background			**PF** 72" Swivel Pendant
						MU Mullion Mount[2]
SOVII						

CHEVRON	OPTIONS	
UC Universal Chevron Kit[5]	**DK** Two Circuit Input[7]	**DL** Damp Location Listed
AR Arrow Right	**SD** Self-Test/Self-Diagnostics	**FT** Flat Trim for Recessed Ceiling Mount
AL Arrow Left	**IR** Self-Diagnostics With Infrared Remote Testing[8]	**FP** Flat Panel[13]
AA All Arrows Same Side	**TLRT** Infrared Hand Held Transmitter[9]	**IN** Inverted Legend For Mullion Mount
LR Arrow Left/Arrow Right[6]	**VA** Other Output Supply Voltage[10]	**EU** Euro Legend[10]
NA No Arrows	**F** Flash in Emergency Mode[11]	**OW** Old Work Clips
	FA Flash in AC and Emergency Mode[12]	**REX** Configured as Master to Power an Optional Remote Razor RZRR3 Exit[14]
	FB [FA] Option Including Buzzer	
	FZ [F] Option Including Buzzer	

ORDERING NOTES

1 Mirror simulates clear background for double face exits
2 Specify preference
3 Ship with back box
4 Preship back box
5 Field installed
6 Double face units only
7 AC models only
8 EM models only
9 Order separately
10 Consult factory
11 Flash in emergency mode (EM models) or continuous flash (AC models).
12 For 12-24V (AC or DC) normally-off fire alarm signal
13 No curve on bottom of face panel
14 Order RZRR3 separately. See data sheet.

Fill in fields from categories above and complete type and part number.

Type No:	Full Part No:

ADDITIONAL IMAGES

SURFACE WALL MOUNT
White

SURFACE END MOUNT
Brushed Aluminum

SURFACE CEILING MOUNT
Black

ARCHITECTURAL PENDANT MOUNT
Painted Brass

ACCENTED TRIM RECESSED CEILING MOUNT
Painted Brass

FLAT TRIM RECESSED CEILING MOUNT
White

MULLION MOUNT
Black

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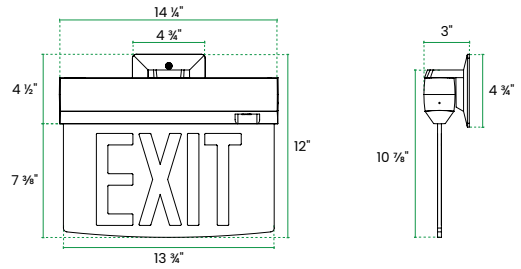
SOVEREIGN II

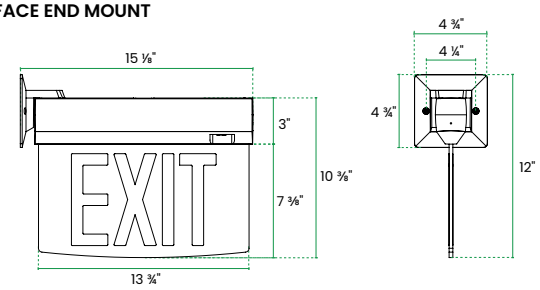
Architectural Edgelit Versatile LED Exit Sign

DIMENSIONS

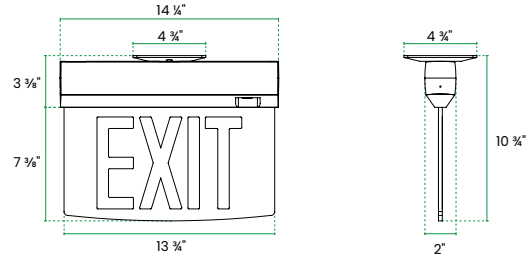
SURFACE WALL MOUNT



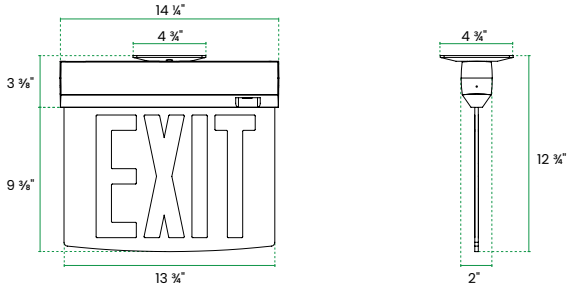
SURFACE END MOUNT



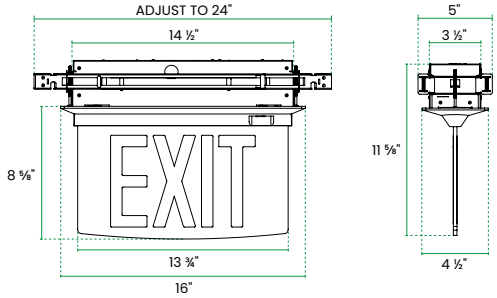
SURFACE CEILING MOUNT (6")



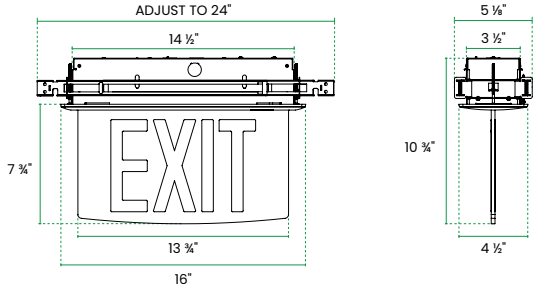
SURFACE CEILING MOUNT (8")



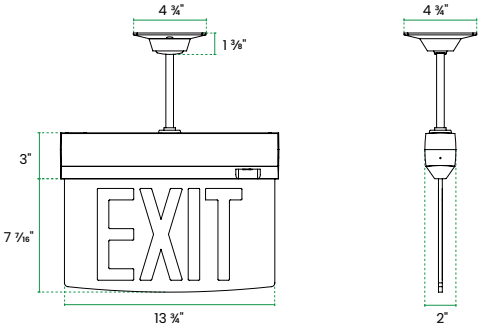
ACCENTED TRIM RECESSED CEILING MOUNT



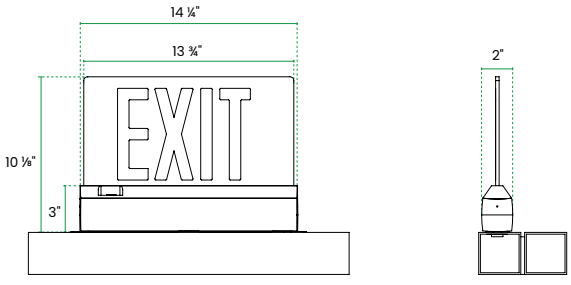
FLAT TRIM RECESSED CEILING MOUNT



ARCHITECTURAL PENDANT MOUNT



MULLION MOUNT



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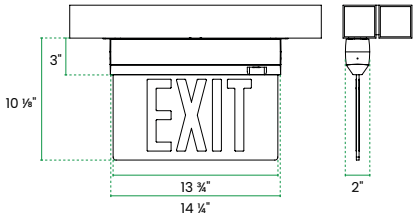
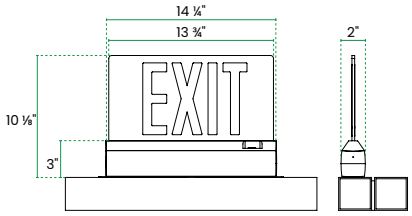
MULLION MOUNT

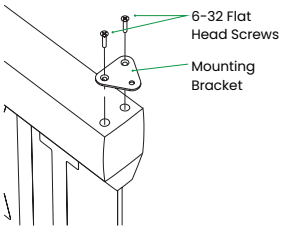
SOVII TOP SURFACE MOUNT



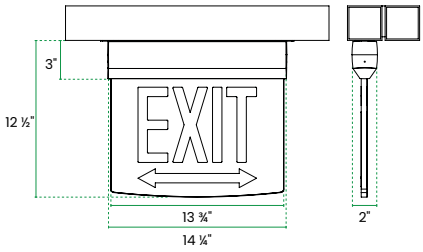
SOVII BOTTOM SURFACE MOUNT INVERTED LEGEND



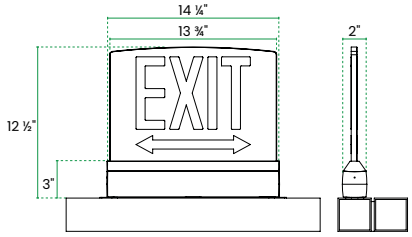
MOUNTING BRACKET ASSEMBLY



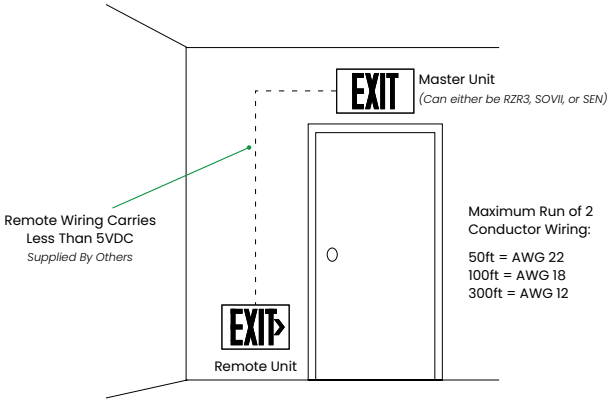
SOCII/SOVII-NR TOP SURFACE MOUNT



SOCII/SOVII-NR BOTTOM SURFACE MOUNT INVERTED LEGEND



MASTER-REMOTE DIAGRAM



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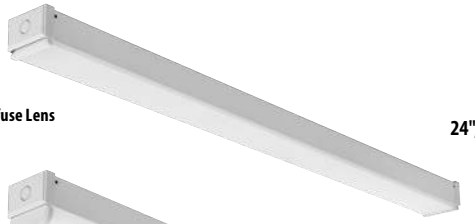
LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

LED Linear

CLX

24", 36", 48" and 96" Lengths



Flat Diffuse Lens

Round Diffuse Lens

Wide Diffuse Lens

CLX with Reflector

FEATURES & SPECIFICATIONS

INTENDED USE — The CLX is a linear lighting solution that is available in multiple lengths, lumen packages and distributions. Designed for versatility, the CLX can address virtually any indoor lighting need. The CLX is also offered in standard and high efficacy configurations and capable of being continuous row mounted or installed as a stand-alone fixture. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.**

CONSTRUCTION — Channel and cover are formed from code-gauge cold-rolled steel. Housing and lens endcaps are injection molded plastic to provide a more architectural look and feel. The endcaps come standard with a 7/8" knock out for continuous mounting but can be ordered without.

Finish: Paint options include high-gloss, baked white polyester (WH), galvanized (GALV), matte black (MB) and smoke gray (SKGY). Five-stage iron phosphate pre-treatment ensures superior paint adhesion and rust resistance.

OPTICS — Offered with acrylic lens and less lens configurations. Provides a choice of optical distributions including, wide, narrow, and aisle.

Models with wide diffuse lens provide up to 12% uplight. Please check the IES file for specific uplight value.

ELECTRICAL — Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR_ ordering information on page 9.) Electronic LED driver is multi-volt input and 0-10V dimming standard (see Operational Data on page 6 for actual wattage consumption). This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided. Color Variation within 3-step MacAdam ellipse (3SDCM).

L70>100,000 hours at 25˚C.

LEDs provide nominal 80 CRI or 90 CRI at 3000 K, 3500 K,4000 K, or 5000 K.

Lumen output up to 2,500 lumens per foot.

INSTALLATION — Fixture may be ceiling or wall mounted (with or without THCLX hanger or angle mounted with CLXANGBKT), pendant or stem mounted with appropriate mounting options.

WARNING — Removing the lens and opening the fixture during installation exposes the LEDs, putting them at risk for damage.

If you plan to surface mount the fixture, we recommend using the THCLX. This eliminates the need to open the fixture.

If you plan to continuous row mount, we recommend using the PLR wiring harness option. This eliminates the need to open the fixture.

Damage to the LEDs caused during installation will not be covered under the warranty.

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -4°F (-20°C) and 104°F (40°C). Optional High Ambient (HA) ranging to 122°F(50°C) available on certain lumen packages (See ambient temperature chart for additional information).
DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

GOVERNMENT PROCUREMENT — BAA – Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

Stock configurations are offered for shorter lead times:

Stock Part Number	UPC
CLX L48 3000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525816
CLX L48 3000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525885
CLX L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525939
CLX L48 5000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525908
CLX L96 6000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525861
CLX L96 6000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525915
CLX L96 10000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525922
CLX L96 10000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525830
CLX L48 3000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525960
CLX L48 3000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525892
CLX L48 5000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525854
CLX L48 5000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525946
CLX L96 6000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525878
CLX L96 6000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525823
CLX L96 10000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525953
CLX L96 10000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525847

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning when used with Acuity Brands controls products.
All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency – including color rendering, color fidelity, and color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about Acuity A+ standards, specifications, and testing visit www.acuitybrands.com/aplus.

design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

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CLX LED Linear

Design Select options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: CLX L48 5000LM SEF WDL MVOLT GZ10 40K 80CRI WH

Series	Length	Nominal lumens	Performance package	Louver	Lens
CLX LED linear	L24 24"	1500LM 1,500 lumens	SEF Standard efficiency ‡	(Blank) Less louver	L/Lens Less lens
		2000LM 2,000 lumens	HEF Premium efficiency ‡	SBLW Straight blade louver, white ‡	FDL Flat diffuse ‡
		2500LM 2,500 lumens		SBLMB Straight blade louver, matte black ‡	RDL Round diffuse ‡
		3500LM 3,500 lumens		SBLGV Straight blade louver, galvanized ‡	WDL Wide diffuse ‡
		4500LM 4,500 lumens		SBLSKGY Straight blade louver, smoke gray ‡	
		5000LM 5,000 lumens			
	L36 36"	2250LM 2,250 lumens			
		3000LM 3,000 lumens			
		3750LM 3,750 lumens			
		5250LM 5,250 lumens			
		6750LM 6,750 lumens			
		7500LM 7,500 lumens			
	L48 48"	3000LM 3,000 lumens			
		4000LM 4,000 lumens			
		5000LM 5,000 lumens			
		7000LM 7,000 lumens			
		9000LM 9,000 lumens			
		10000LM 10,000 lumens			
	L96 96"	6000LM 6,000 lumens			
		8000LM 8,000 lumens			
		10000LM 10,000 lumens			
		14000LM 14,000 lumens			
		18000LM 18,000 lumens			
		20000LM 20,000 lumens			

Distribution	Voltage		Driver ‡	Glare Reflector	Color temperature	Coloring rendering index
(Blank) General	MVOLT 120-277V ‡	277 277V	GZ1 Generic 0-10V, dims to 1% ‡	(blank) No reflectors	30K 3000 K	80CRI 80 CRI
ND Narrow ‡	120 120V	347 347V ‡	GZ10 Generic 0-10V, dims to 10% ‡	LUGR Reflectors for additional glare reduction ‡	35K 3500 K	90CRI 90 CRI
WD Wide ‡	208 208V ‡	480 480V ‡	EZ1 eldoLED 0-10V, dims to 1% ‡		40K 4000 K	
AD2 Aisle, 24° off center ‡	240 240V ‡				50K 5000 K	

Options

E10W	10W Emergency battery pack, constant power, Certified in CA Title 20 MAEDBS, User selectable Self-Diagnostic, AC Activate with Integral Test Switch [LINK] ‡
E10WSTAR	Emergency battery pack, Enabled with STAR ‡
BGTD	Generator transfer device, not available with E10W ‡
OCS	5', 18/3 Reloc selectable One Pass cable (fixture will bear dry location label) ‡
HA	High ambient, for use in ambient temperatures up to 50°C ‡
EPNKO	Decorative endplate, no knock out ‡
OUTCTR	Wiring leads pulled through back center of fixture ‡
OUTEND	Wiring leads pulled through end of fixture ‡
Cord Sets: ‡	
CS1W	6' Staight blade plug, 120V ‡
CS3W	NEMA twist-lock plug, 120V ‡
CS7W	Staight blade plug, 277V ‡
CS11W	NEMA twist-lock plug, 277V ‡
CS25W	NEMA twist-lock plug, 347V ‡
CS97W	NEMA twist-lock plug, 480V ‡
CS93W	600V SEOOW white cord, no plug (no voltage required) ‡
CS6WG16STOWD5D	6' white cord, 16/5, no plug, includes low voltage dimming wires (no voltage required) ‡
PLR___	Plug-in wiring, see page 9 for ordering information
PLR1G	Plug-in wiring, single circuit, Ground
PLR1LVG	Plug-in wiring, single circuit, low-voltage dimming, Ground ‡
RRL___	RELOC®-ready luminaire. See page 10 for ordering information
SPD	Surge protection device, provides up to 6kV protection ‡
BAA	Buy America(n) Act and/or Build America Buy America Qualified
nLight® Wireless:	
NLTAIR2 RES7	nLight AIR Generation 2 enabled PIR integral occupancy sensor with automatic dimming photocell ‡
NLTAIR2 RES7EM	nLight AIR Generation 2 enabled PIR integral occupancy sensor with automatic dimming photocell and UL924 Emergency operation, via power interrupt detection ‡
NLTAIR2 RES7PDT	nLight AIR Generation 2 enabled dual technology integral occupancy sensor with automatic dimming photocell ‡
NLTAIR2 RES7PDTEM	nLight AIR Generation 2 enabled dual technology integral occupancy sensor with automatic dimming photocell and UL924 Emergency operation, via power interrupt detection ‡
NLTAIR2 RIO	No sensor control ‡
NLTAIR2 RIOEM	No sensor, Control Input function only and UL924 Emergency operation, via power interrupt detection ‡
nLight® Wired:	
N100	nLight® without lumen management
N100EMG	nLight® without lumen management For use with generator supply EM power ‡
NES7	nLight® nES 7 PIR integral occupancy sensor ‡
NESPDT7	nLight® nES PDT 7 dual technology integral occupancy control ‡
NES7ADCX	nLight® nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell ‡
NESPDT7ADCX	nLight® nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell ‡
Individual controls: ‡	
MSD7	PIR integral occupancy sensor
MSDPDT7	PDT 7 dual technology integral occupancy control
MSD7ADC	PIR integral occupancy sensor with automatic dimming control photocell
MSDPDT7ADC	PDT integral occupancy sensor with automatic dimming control photocell

Finish

WH	White
GALVW	Galvanized with white lens end caps
GALVB	Galvanized with black lens end caps
MB	Matte black
SKGYW	Smoke gray with white lens end caps
SKGYB	Smoke gray with black lens end caps

See Accessories and footnotes on next page

COMMERCIAL INDOOR: 1 Acuity Way, Decatur, GA 30035 Phone: 800-705-SERV (7378) TechSupport-Lighting@Acuitybrands.com www.lithonia.com

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CLX LED Linear

Accessories: *Order as separate catalog number.*

Mounting:

ZACVH M100	Adjustable 10' aircraft cable with Y hanger (1 pair)
ZAC120	One adjustable aircraft cable with canopy 120", white
ZACFP120	One adjustable aircraft cable with feed (3 conductor) and canopy, 120", white
ZACFPD120	One adjustable aircraft cable with feed (5 conductor) and canopy 120", white
ZAC240	One adjustable aircraft cable with canopy 240", white
ZACFP240	One adjustable aircraft cable with feed (3 conductor) and canopy, 240", white
ZACFPD240	One adjustable aircraft cable with feed (5 conductor) and canopy 240", white

SQ_	Swivel stem hanger (specify length in 2" increments up to 48") Ships White ‡
THCLX ___	Tong hanger (Must specify color) (one pair) ‡
CLXANGBKT ____	Angle bracket, (Must specify color) (one pair) ‡
HC36 M12	Hanger chain, 36" (1 pair)

Wireguards:

WGCLX24 ___	24" wireguard qty 1, (Must specify color) ‡
WGCLX36 ___	36" wireguard qty 1, (Must specify color) ‡
WGCLX48 ___	48" wireguard qty 1, (Must specify color) ‡
WGCLX48 ___ J2	48" wireguard qty 2, (Must specify color) ‡
WGCLX48 ___ J25	48" wireguard qty 25, (Must specify color) ‡
WGCLX48 ___ J50	48" wireguard qty 50, (Must specify color) ‡

‡ Option Value Ordering Restrictions

Option value	Restriction
347V, 480V	Voltage selected utilizes a step-down transformer. Not available with L24 when ordered with N100. Not available with E10W or BGTD options.
BGTD	Not available with MVOLT, 208V or 240V. Not available with HA. Available with L48 or L96 only. Not available with E10W option. Not available with 208 or 240V. Not available Individual controls, NLight Wired, or NLight Wireless options.
CS1W, CS3W, CS7W, CS11W, CS25W, CS963W, CS97W	Not available with BGTD option. Must specify voltage. Not available with PLR options.
CS6WG16STOWD5D	Not available with Individual controls, nLight wired networking, nLight wireless networking, nLight wireless zone control options. Not available with PLR options.
Driver	When continuous row mounting, fixtures must all have the same driver selection.
E10W	Not available with HA. Not available with 347V or 480V. Not available with BGTD option. Requires SPD option. Not available with L24 or L36. Not available with L48 in combination with N100.
E10WSTAR	Not available with HA. Not available with 347V or 480V. Not available with BGTD option. Requires SPD option. Not available with L24 or L36. Not available with L48 in combination with N100.
EPNKO	Not available OUTEND.
EZ1	Not available with HA option. Not available with 5000LM, 7500LM.
FDL, RDL, WDL	Only available with general distribution. Not available with CLXRN accessories.
GZ1, GZ10	Not available with Individual controls, nLight wired networking, nLight wireless networking, nLight wireless zone control options.
HA	Not available with L24, L26. Not available with BGTD option. Not available with EZ1. Only available with L48 3000/4000/5000LM and L96 6000/8000/10000LM.
HEF	Not available with L48 3000LM and L96 6000LM
LUGR	Not available with L36 length. Only available with WH finish. Not compatible with THCLX Hanger or wireguard accessories. LUGR option required for some DLC premium qualifications - Please check the DLC Qualified Products List to determine if LUGR option is necessary to meet requirement. If mounting in continuous rows, ensure all models ordered with LUGR option if required on any configuration to ensure rows match in form factor. LUGR reflectors ship in standard fixture carton and are not sold as separate accessory - this option MUST be specified as part of the CLX model number.
MSD7, MSDPDT7, MSD7ADC, MSDPDT7ADC	Not available with any other control option. Requires EZ1. Sensor housing will be the same color as lens end caps.
N100, N100EMG	nLight EMG option requires a connection to existing nLight network. Power is provided from separate N100 enabled fixture.
ND, WD, AD2	Not available with CLXRN accessories. Available L/LENS only.
NES7, NESPDT7, NES7ADCX, NESPDT7ADCX	Not available with any other control option. Requires EZ1. Requires N100 or N100EMG option, N100EMG with NES7 requires RFA. Sensor housing will be the same color as lens end caps.
NLTAIR2 RES7(EM), NLTAIR2 RES7PDT(EM), NLTAIR2 RIO(EM)	Sensor housing will be the same color as lens end caps. For EM, see UL924 Sequence of Operation chart below.
OCS	Must specify voltage.
OUTCR	Not available with L24. Not available with PLR options.
OUTEND	Not available with PLR options.
PLR1LVG	Not available with Individual controls, NLight Wired, or NLight Wireless options. Refer to page 9 for more PLR details. Not available with cord set options.
SBLW, SBLMB, SBLGV, SBLSKGY	When ordered with L24 only available with 1500LM or 2000LM in combination with GZ10 driver. Not for use with THCLX, CLXANGBKT or WGCLX accessories. Not available with RDL lens options.
SEF	Not available with EZ1 when ordered with L24 with 5000LM or L36 with 7500LM.
SPD	Required with E10W, BGTD.
THCLX ___, CLXANGBKT ____	Not available with louver or wireguards. THCLX___ not available with LUGR.
Wireguards	Not for use with LUGR option. For L96 fixtures, use qty 2 48" wireguards.
SQ	No available with L24 or L36

UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

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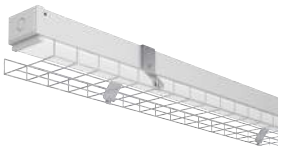
CLX LED Linear

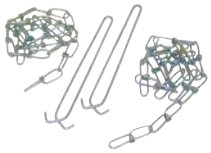
OPTIONS AND ACCESSORIES



Wireguard
Ships separately from fixture:
96" fixture requires two WGCLX48.
Order as:
WGCLX24___
WGCLX36___
WGCLX48___

LUGR glare reflector
NOT available as accessory - must be specified as part of the fixture nomenclature. See ordering notes on page 3.

Aircraft Cable with Canopy
Available in 120" or 240"
Order as:
ZAC120
ZAC240



HANGER CHAIN
36" chain with Y hanger. ships as a pair
Order as:
HC36

ZACVH HANGER
10' Aircraft cable with Y hanger.
Order as:
ZACVH

Tong hanger
Ships as a pair
Order As:
THCLX___

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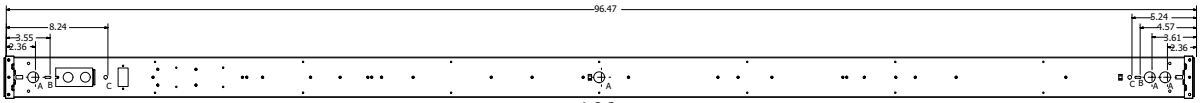
CLX LED Linear

DIMENSIONS

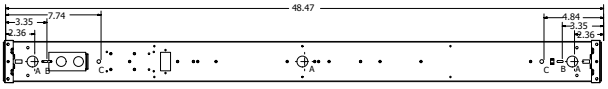
All dimensions are in inches (centimeters) unless otherwise indicated.
Dimensions may vary with options or accessories.

INTEGRATED SENSOR ADDS 2.0 INCHES TO STANDALONE FIXTURE LENGTH
HOUSING END CAP ADDS 0.236 INCHES TO FIXTURE LENGTH PER SIDE. DIMENSIONS BELOW INCLUDE ENDCAPS.

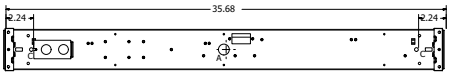
A - 7/8" KNOCK OUT
B - 0.5" by 0.16" SLOT
C - 0.3" DIA HOLE



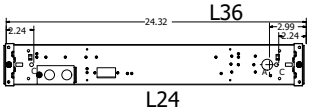
L96



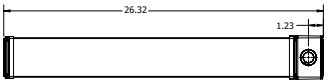
L48



L36



L24

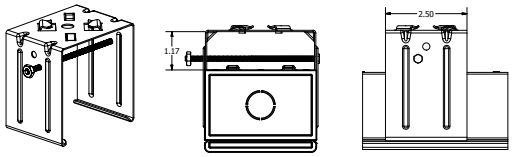


L24 WITH SENSOR

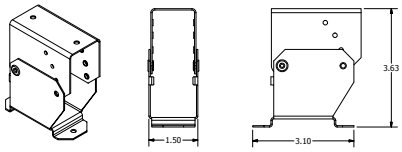
PALLET DIMENSIONS

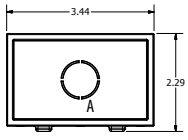
Length	Approx Weight	Fixtures per pallet	Pallet Dims (L X W X H)
L24	4 lb	100	54x46x37
L36	5 lb	80	54x46x37
L48	7.5 lb	64	54x46x37
L96	14 lb	64	98x46x37

THCLX - SHIPS TWO PER ORDER,
UTILIZES A #8 HEX HEAD SCREW AND NUT
FIXTURE SITS 1.3 INCHES FROM STRUCTURE WHEN MOUNTED

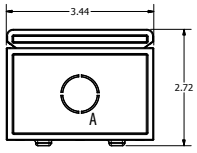


CLXANGBKT - SHIPS TWO PER ORDER
HOLES TO MOUNTING STRUCTURE ARE 0.175" DIA, 2.5" APART
FIXTURE SITS APPROXIMATELY 3.5" FROM STRUCTURE
WHEN MOUNTED HORIZONTAL TO STRUCTURE

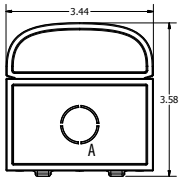




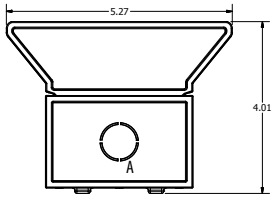
L/LENS



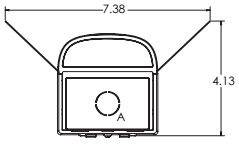
FDL



RDL



WDL



LUGR Reflector Option
- applies to all lens types

PHOTOMETRICS

See www.lithonia.com.

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CLX LED Linear

POWER SENTRY EMERGENCY BATTERY PACKS

		SEF Emergency Lumens	HEF Emergency Lumens
E10W	Factory installable	1400	1500
PS1555LCP	Field installable, remote mount only	2000	2100

Note: For emergency lumen output of specific model, please consult factory. One board will be illuminated during emergency operation.

Emergency Battery Pack Options - Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter / 2 Hour Runtime
ILB CP10 A	10W	90	1200	
ILBLP CP10 HE SD A	10W	90	1200	Title 20, Self Diagnostic
ILB CP10 HE AELR A	10W	90	1200	Title 20; Enabled with Self Testing, Automated Reporting (STAR)
ILBLP CP15 HE SD A	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic

All the above are UL Listed products that are certified for field install external/remote to the fixture.
*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.
The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.
Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.

Enabled with STAR

Emergency Lighting with Self-Testing Automated Reporting (STAR), enables self-testing and automated reporting to aid in life safety code compliance. Build your solution and choose your preferred deployment from Mobile STAR, where test data is logged in each individual unit and broadcast to the CI**AIR**ity™**+** app, or Connected STAR, where test data is logged in the STAR Gateway by IOTA® and emailed directly. **Leave the ladders, disruptions and written records behind with emergency lighting solutions with STAR!**

Life Safety Code NFPA 101 testing and reporting requirements for emergency lighting include:

- Testing for 30 seconds every 30 days
- Testing for 90 minutes once a year
- Record keeping and to report to the authority having local jurisdiction

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CLX LED Linear

CLX CHARACTERISTICS

Nominal Lumen Package	Length	Wattage								Length	Width	Depth	Comparable Light Source
		Standard Efficiency				High Efficiency							
		120V	277V	347V	480V	120V	277V	347V	480V	Dimensions are shown in inches			
2500LM	24"	18.4	18.4	24.0	24.0	17.4	17.4	23.1	23.1	24	3.5	3.75	1-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
5000LM	24"	41.5	41.5	47.4	47.4	38.1	38.1	44.1	44.1	24	3.5	3.75	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
3750LM	36"	26.5	26.5	32.1	32.1	25.1	25.1	30.7	30.7	36	3.5	3.75	1-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
7500LM	36"	62.6	62.6	68.6	68.6	54.0	54.0	59.7	59.7	36	3.5	3.75	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
5000LM	48"	31.8	31.8	37.2	37.2	30.3	30.3	35.8	35.8	48	3.5	3.75	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
10000LM	48"	70.7	70.7	76.2	76.2	65.3	65.3	70.8	70.8	48	3.5	3.75	3-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
10000LM	96"	63.7	63.7	69.0	69.0	60.6	60.6	66.1	66.1	96	3.5	3.75	3-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
20000LM	96"	141.3	141.3	146.8	146.8	130.5	130.5	136.1	136.1	96	3.5	3.75	6-lamp 32W T8, 4-lamp 54W T5HO, 200W HID

Note: For wattage by configuration, please reference the CLX Operational Data Document.

Lumen Package	UGR Values of CLX L24 @ 80CRI and 3500K UGR (70% 50% 20% reflectance using a 4H x 8H room size)													
	FDL		RDL		WDL		FDL LUGR		RDL LUGR		WDL LUGR		L/LENS	
	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise
1500LM SEF	21.2	23.8	19.4	25.2	17.4	21.1	16.8	14	17.8	16.6	18.1	17.9	24.9	25.1
2000LM SEF	22.3	24.9	20.5	26.3	18.6	22.3	17.9	15.1	18.8	17.6	19.2	18.9	26.1	26.2
2500LM SEF	23.1	25.7	21.3	27.1	19.4	23.1	18.6	15.8	19.6	18.4	19.9	19.7	26.9	27
3500LM SEF	24.1	26.7	22.3	28.1	20.4	24.1	19.7	16.9	20.7	19.5	21	20.8	27.9	28.1
4500LM SEF	25.4	28	23.6	29.4	21.7	25.4	20.7	17.9	21.7	20.5	22	21.8	29.2	29.3
5000LM SEF	25.6	28.2	23.3	29.1	21.4	25.1	21	18.3	21.5	20.3	21.8	21.5	29.4	29.5
1500LM HEF	21.1	23.7	19.3	25.1	21.8	25.5	16.5	13.7	17.6	16.3	17.8	17.6	24.9	25
2000LM HEF	22.2	24.8	20.4	26.2	17.4	21.1	17.6	14.8	18.6	17.4	18.8	18.6	26	26.2
2500LM HEF	23	25.7	21.3	27	18.5	22.2	18.4	15.6	19.4	18.2	19.7	19.4	26.8	27
3500LM HEF	24.1	26.7	22.3	28.1	19.3	23	19.8	17	20.9	19.7	21.1	20.9	27.9	28
4500LM HEF	25.3	27.9	23.5	29.3	20.4	24.1	20.8	18	21.8	20.6	22.1	21.8	29.1	29.3
5000LM HEF	25.5	28.1	23.7	29.5	21.6	25.3	21.1	18.3	22.1	20.9	22.3	22.1	29.3	29.5

UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application

Lumen Package	UGR Values of CLX L36 @ 80CRI and 3500K UGR (70% 50% 20% reflectance using a 4H x 8H room size)							
	FDL		RDL		WDL		L/LENS	
	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise
2250LM SEF	21.4	24.1	19.7	25.6	17.7	21.6	25.2	25.4
3000LM SEF	22.3	25	20.6	26.5	18.6	22.5	26.2	26.3
3750LM SEF	23.2	25.9	21.4	27.3	19.5	23.4	27	27.2
5250LM SEF	24.2	26.9	22.5	28.4	20.5	24.4	28	28.2
6750LM SEF	25.1	27.8	23.3	29.2	21.4	25.3	28.9	29
7500LM SEF	25.4	28.1	23.6	29.5	21.7	25.6	29.2	29.4
2250LM HEF	25	27.7	20.5	26.4	18.6	22.5	25.2	25.3
3000LM HEF	25.3	28	21.4	27.3	19.4	23.3	26.1	26.2
3750LM HEF	21.4	24.1	22.4	28.3	20.5	24.4	27	27.1
5250LM HEF	22.3	25	23.2	29.2	21.3	25.2	28	28.1
6750LM HEF	23.1	25.8	23.6	29.5	21.6	25.5	28.8	29
7500LM HEF	24.2	26.8	19.6	25.5	17.7	21.6	29.1	29.3

UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR and/or "Point-UGR" values.
To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application

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CLX LED Linear

Lumen Package	UGR Values of CLX L48 @ 80CRI and 3500K UGR (70% 50% 20% reflectance using a 4H x 8H room size)													
	FDL		RDL		WDL		FDL LUGR		RDL LUGR		WDL LUGR		L/LENS	
	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise
3000LM SEF	21.8	24.5	19.7	25.3	18.6	23.4	19.2	16.5	20.2	19	20.6	20.3	24.8	25.6
4000LM SEF	22.8	25.5	20.7	26.3	19.6	24.4	20.3	17.5	21.2	20	21.6	21.4	25.8	26.6
5000LM SEF	23.6	26.3	21.4	27	20.4	25.2	21	18.2	21.9	20.7	22.3	22.1	26.6	27.3
7000LM SEF	24.8	27.6	22.7	28.3	21.6	26.5	22.3	19.6	23.3	22.1	23.7	23.4	27.8	28.6
9000LM SEF	25.6	28.4	23.5	29.1	22.5	27.3	23.2	20.4	24.1	22.9	24.5	24.3	28.6	29.4
10000LM SEF	26	28.7	23.8	29.5	22.8	27.6	23.6	20.8	24.5	23.3	24.9	24.7	29	29.8
3000LM HEF	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4000LM HEF	22.8	25.6	20.7	26.3	22.8	25.6	20.3	17.5	21.3	20.1	21.7	21.4	29.5	30.3
5000LM HEF	23.6	26.3	21.4	27	23.6	26.3	21	18.2	21.9	20.7	22.3	22.1	30.2	31
7000LM HEF	24.8	27.6	22.7	28.3	24.8	27.6	22.4	19.6	23.4	22.2	23.8	23.5	27.8	28.6
9000LM HEF	25.7	28.4	23.6	29.2	25.7	28.4	23.2	20.4	24.2	23	24.6	24.3	28.7	29.5
10000LM HEF	26	28.7	23.9	29.5	26	28.7	23.6	20.9	24.6	23.4	25	24.7	29	29.8

UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application

Lumen Package	UGR Values of CLX L96 @ 80CRI and 3500K UGR (70% 50% 20% reflectance using a 4H x 8H room size)													
	FDL		RDL		WDL		FDL LUGR		RDL LUGR		WDL LUGR		L/LENS	
	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise
6000LM SEF	21.8	24.6	19.7	25.4	17.9	22.4	19.3	16.5	20.2	19	20.6	20.4	24.8	25.6
8000LM SEF	22.8	25.5	20.7	26.4	18.8	23.4	20.3	17.6	21.2	20.1	21.6	21.4	25.8	26.6
10000LM SEF	23.6	26.3	21.4	27.2	19.6	24.2	21	18.3	21.9	20.8	22.3	22.1	26.5	27.3
14000LM SEF	24.8	27.6	22.7	28.5	20.9	25.5	22.4	19.6	23.3	22.1	23.7	23.5	27.8	28.6
18000LM SEF	25.7	28.4	23.5	29.3	21.7	26.3	23.2	20.5	24.1	23	24.5	24.3	28.6	29.4
20000LM SEF	26	28.7	23.9	29.6	22	26.6	23.6	20.9	24.5	23.4	24.9	24.7	29	29.7
6000LM HEF	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8000LM HEF	22.8	25.6	20.7	26.5	18.9	23.5	20.4	17.6	21.3	20.1	21.7	21.5	25.8	26.6
10000LM HEF	23.6	26.3	21.4	27.2	19.6	24.2	21	18.3	21.9	20.8	22.3	22.1	27	27.8
14000LM HEF	24.9	27.6	22.7	28.5	20.9	25.5	22.4	19.7	23.4	22.2	23.8	23.5	27.8	28.6
18000LM HEF	25.7	28.4	23.6	29.3	21.7	26.3	23.2	20.5	24.2	23	24.6	24.3	28.7	29.5
20000LM HEF	26	28.8	23.9	29.6	22.1	26.6	23.7	20.9	24.6	23.4	25	24.8	29	29.8

UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application

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CLX LED Linear

AMBIENT TEMPERATURE RATINGS

Driver Package		GZ10			EZ1 or EOHN			Any Driver	
Length	**Lumen package**	**Direct Surface**	**THCLX/ Suspended**	**HA Option (Direct or Suspended)**	**Direct Surface**	**THCLX**	**Suspended 18"**	**Xpoint/ BGTD Direct Surface**	**E10W Suspended**
L24	1500LM	40C	40C	N/A	35C	35C	35C	N/A	N/A
	2000LM	40C	40C		35C	35C	35C		
	2500LM	40C	40C		35C	35C	35C		
	3000LM	40C	40C		40C	40C	40C		
	4500LM	40C	40C		35C	35C	40C		
	5000LM	40C	40C		25C	30C	35C		
L36	2250LM	40C	40C		40C	40C	40C		
	3000LM	40C	40C		40C	40C	40C		
	3750LM	40C	40C		40C	40C	40C		
	5250LM	40C	40C		35C	35C	40C		
	6750LM	30C	40C		35C	35C	40C		
	7500LM	30C	40C		25C	30C	35C		
L48	3000LM	40C	40C	50C	40C	40C	40C	35C	25C
	4000LM	40C	40C	50C	40C	40C	40C		
	5000LM	40C	40C	50C	35C	35C	40C		
	7000LM	30C	40C	N/A	35C	35C	40C		
	9000LM	30C	40C		25C	30C	35C		
	10000LM	30C	40C		25C	30C	35C		
L96	6000LM	40C	40C	50C	35C	35C	40C		
	8000LM	30C	40C	50C	35C	35C	40C		
	10000LM	30C	40C	50C	25C	30C	35C		
	14000LM	40C	40C	N/A	35C	35C	40C		
	18000LM	30C	40C		25C	30C	35C		
	20000LM	30C	40C		25C	30C	35C		

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CLX LED Linear

RRL - RELOC®-Ready Luminaire

- RRL connectors can be used with Quick-Flex®, System 820 and OnePass® systems.
- Load side of connector factory installed to luminaire.
- 4-pole mating connector with push-in terminations allows for simple installation.
- Touch-safe design on both halves meets UL/CSA requirement.
- Wiping contact design allows safe disconnect under load.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** RRLA

Series		Wiring instructions	
RRL	RELOC®-ready luminaire	A	Hot conductor wired to position #1 (phase A)
		B	Hot conductor wired to position #2 (phase B)
		C	Hot conductor wired to position #3 (phase C) [1]
		C12S	Ballast/driver wired to pin position #1 (120V, 277V, 347V - Phase A). Low voltage wire (positive/purple) (data1) wired to pin position #2. Low voltage wire (common/gray) (data2) wired to pin position #3 [2]

Compatible RELOC® Cables for Industrial Luminaires (ordered and shipped separately)


OCS


OCU


OD


DC


PT

Notes

1 C, ABE, and C12S options are not used with Quick-Flex QFC, QSFC, QPT, and QD.

2 RRLC12S option is to be used with the OnePass OCU, OCS, OD, OFC and OD for 0-24V integrated single-circuit or 0-10V low voltage controls applications. Not available with integral dimming sensors.

PLUG-IN WIRING INFORMATION

Advanced plug-in system with two-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. PLR22 (2-circuit) and crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy.

Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA certified systems available with up to 2 circuits. G ground required.

Not for use with dedicated emergency circuits.

Note: Specifications subject to change without notice.

Wiring

PLR

Advanced 1 or 2-Circuit Plug-In

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Series	Number of hot wires		Branch circuits (PLR2A / PLR2B Only)				Dimming		Ground	
PLR22	(blank)	Not required for PLR22	(blank)	Not required for PLR22			(blank)	No Dimming	G	Ground (required)
PLR	1	Black	(blank)	Not required for PLR1			(blank)	No Dimming	G	Ground (required)
	2	Black and red	**Circuits to which driver is connected**		**Battery charging circuit (must be unswitched)**		LV	Low-voltage Dimming	G	Ground (required)
			(blank)	Not required for PLR22	(blank)	No battery charging circuit				
			A	Black wire	ELA	Battery pack wired to black wire				
			B	Red wire	ELB	Battery pack wired to red wire				

Typical Applications

Notes:

When specifying PLR1, you will not specify A or B as there is only a single hot wire which would be black in color.

- Multiple-circuit and single-circuit for longer continuous rows
- Multiple-circuit with alternating fixtures on separate circuits and 2-circuit PLR22
- Multiple circuit with night-lights located along row as desired

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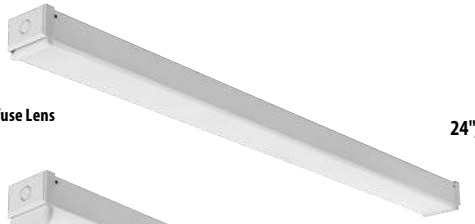
LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

LED Linear

CLX

24", 36", 48" and 96" Lengths



Flat Diffuse Lens

Round Diffuse Lens

Wide Diffuse Lens

CLX with Reflector

FEATURES & SPECIFICATIONS

INTENDED USE — The CLX is a linear lighting solution that is available in multiple lengths, lumen packages and distributions. Designed for versatility, the CLX can address virtually any indoor lighting need. The CLX is also offered in standard and high efficacy configurations and capable of being continuous row mounted or installed as a stand-alone fixture. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.**

CONSTRUCTION — Channel and cover are formed from code-gauge cold-rolled steel. Housing and lens endcaps are injection molded plastic to provide a more architectural look and feel. The endcaps come standard with a 7/8" knock out for continuous mounting but can be ordered without.

Finish: Paint options include high-gloss, baked white polyester (WH), galvanized (GALV), matte black (MB) and smoke gray (SKGY). Five-stage iron phosphate pre-treatment ensures superior paint adhesion and rust resistance.

OPTICS — Offered with acrylic lens and less lens configurations. Provides a choice of optical distributions including, wide, narrow, and aisle.

Models with wide diffuse lens provide up to 12% uplight. Please check the IES file for specific uplight value.

ELECTRICAL — Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR_ ordering information on page 9.) Electronic LED driver is multi-volt input and 0-10V dimming standard (see Operational Data on page 6 for actual wattage consumption). This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided. Color Variation within 3-step MacAdam ellipse (3SDCM).

L70>100,000 hours at 25˚C.

LEDs provide nominal 80 CRI or 90 CRI at 3000 K, 3500 K,4000 K, or 5000 K.

Lumen output up to 2,500 lumens per foot.

INSTALLATION — Fixture may be ceiling or wall mounted (with or without THCLX hanger or angle mounted with CLXANGBKT), pendant or stem mounted with appropriate mounting options.

WARNING — Removing the lens and opening the fixture during installation exposes the LEDs, putting them at risk for damage.

If you plan to surface mount the fixture, we recommend using the THCLX. This eliminates the need to open the fixture.

If you plan to continuous row mount, we recommend using the PLR wiring harness option. This eliminates the need to open the fixture.

Damage to the LEDs caused during installation will not be covered under the warranty.

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -4°F (-20°C) and 104°F (40°C). Optional High Ambient (HA) ranging to 122°F(50°C) available on certain lumen packages (See ambient temperature chart for additional information).
DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

GOVERNMENT PROCUREMENT — BAA – Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

Stock configurations are offered for shorter lead times:

Stock Part Number	UPC
CLX L48 3000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525816
CLX L48 3000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525885
CLX L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525939
CLX L48 5000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525908
CLX L96 6000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525861
CLX L96 6000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525915
CLX L96 10000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525922
CLX L96 10000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525830
CLX L48 3000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525960
CLX L48 3000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525892
CLX L48 5000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525854
CLX L48 5000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525946
CLX L96 6000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525878
CLX L96 6000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525823
CLX L96 10000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525953
CLX L96 10000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525847

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning when used with Acuity Brands controls products.
All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency – including color rendering, color fidelity, and color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about Acuity A+ standards, specifications, and testing visit www.acuitybrands.com/aplus.

design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

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CLX LED Linear

Design Select options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: CLX L48 5000LM SEF WDL MVOLT GZ10 40K 80CRI WH

Series	Length	Nominal lumens	Performance package	Louver	Lens
CLX LED linear	L24 24"	1500LM 1,500 lumens	SEF Standard efficiency ‡	(Blank) Less louver	L/Lens Less lens
		2000LM 2,000 lumens	HEF Premium efficiency ‡	SBLW Straight blade louver, white ‡	FDL Flat diffuse ‡
		2500LM 2,500 lumens		SBLMB Straight blade louver, matte black ‡	RDL Round diffuse ‡
		3500LM 3,500 lumens		SBLGV Straight blade louver, galvanized ‡	WDL Wide diffuse ‡
		4500LM 4,500 lumens		SBLSKGY Straight blade louver, smoke gray ‡	
		5000LM 5,000 lumens			
	L36 36"	2250LM 2,250 lumens			
		3000LM 3,000 lumens			
		3750LM 3,750 lumens			
		5250LM 5,250 lumens			
		6750LM 6,750 lumens			
		7500LM 7,500 lumens			
	L48 48"	3000LM 3,000 lumens			
		4000LM 4,000 lumens			
		5000LM 5,000 lumens			
		7000LM 7,000 lumens			
		9000LM 9,000 lumens			
		10000LM 10,000 lumens			
	L96 96"	6000LM 6,000 lumens			
		8000LM 8,000 lumens			
		10000LM 10,000 lumens			
		14000LM 14,000 lumens			
		18000LM 18,000 lumens			
		20000LM 20,000 lumens			

Distribution	Voltage		Driver ‡	Glare Reflector	Color temperature	Coloring rendering index
(Blank) General	MVOLT 120-277V ‡	277 277V	GZ1 Generic 0-10V, dims to 1% ‡	(blank) No reflectors	30K 3000 K	80CRI 80 CRI
ND Narrow ‡	120 120V	347 347V ‡	GZ10 Generic 0-10V, dims to 10% ‡	LUGR Reflectors for additional glare reduction ‡	35K 3500 K	90CRI 90 CRI
WD Wide ‡	208 208V ‡	480 480V ‡	EZ1 eldoLED 0-10V, dims to 1% ‡		40K 4000 K	
AD2 Aisle, 24° off center ‡	240 240V ‡				50K 5000 K	

Options

E10W	10W Emergency battery pack, constant power, Certified in CA Title 20 MAEDBS, User selectable Self-Diagnostic, AC Activate with Integral Test Switch [LINK] ‡
E10WSTAR	Emergency battery pack, Enabled with STAR ‡
BGTD	Generator transfer device, not available with E10W ‡
OCS	5', 18/3 Reloc selectable One Pass cable (fixture will bear dry location label) ‡
HA	High ambient, for use in ambient temperatures up to 50°C ‡
EPNKO	Decorative endplate, no knock out ‡
OUTCTR	Wiring leads pulled through back center of fixture ‡
OUTEND	Wiring leads pulled through end of fixture ‡
Cord Sets: ‡	
CS1W	6' Staight blade plug, 120V ‡
CS3W	NEMA twist-lock plug, 120V ‡
CS7W	Staight blade plug, 277V ‡
CS11W	NEMA twist-lock plug, 277V ‡
CS25W	NEMA twist-lock plug, 347V ‡
CS97W	NEMA twist-lock plug, 480V ‡
CS93W	600V SEOOW white cord, no plug (no voltage required) ‡
CS6WG16STOWD5D	6' white cord, 16/5, no plug, includes low voltage dimming wires (no voltage required) ‡
PLR___	Plug-in wiring, see page 9 for ordering information
PLR1G	Plug-in wiring, single circuit, Ground
PLR1LVG	Plug-in wiring, single circuit, low-voltage dimming, Ground ‡
RRL___	RELOC®-ready luminaire. See page 10 for ordering information
SPD	Surge protection device, provides up to 6kV protection ‡
BAA	Buy America(n) Act and/or Build America Buy America Qualified
nLight® Wireless:	
NLTAIR2 RES7	nLight AIR Generation 2 enabled PIR integral occupancy sensor with automatic dimming photocell ‡
NLTAIR2 RES7EM	nLight AIR Generation 2 enabled PIR integral occupancy sensor with automatic dimming photocell and UL924 Emergency operation, via power interrupt detection ‡
NLTAIR2 RES7PDT	nLight AIR Generation 2 enabled dual technology integral occupancy sensor with automatic dimming photocell ‡
NLTAIR2 RES7PDTEM	nLight AIR Generation 2 enabled dual technology integral occupancy sensor with automatic dimming photocell and UL924 Emergency operation, via power interrupt detection ‡
NLTAIR2 RIO	No sensor control ‡
NLTAIR2 RIOEM	No sensor, Control Input function only and UL924 Emergency operation, via power interrupt detection ‡
nLight® Wired:	
N100	nLight® without lumen management
N100EMG	nLight® without lumen management For use with generator supply EM power ‡
NES7	nLight® nES 7 PIR integral occupancy sensor ‡
NESPDT7	nLight® nES PDT 7 dual technology integral occupancy control ‡
NES7ADCX	nLight® nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell ‡
NESPDT7ADCX	nLight® nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell ‡
Individual controls: ‡	
MSD7	PIR integral occupancy sensor
MSDPDT7	PDT 7 dual technology integral occupancy control
MSD7ADC	PIR integral occupancy sensor with automatic dimming control photocell
MSDPDT7ADC	PDT integral occupancy sensor with automatic dimming control photocell

Finish

WH	White
GALVW	Galvanized with white lens end caps
GALVB	Galvanized with black lens end caps
MB	Matte black
SKGYW	Smoke gray with white lens end caps
SKGYB	Smoke gray with black lens end caps

See Accessories and footnotes on next page

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CLX LED Linear

Accessories: *Order as separate catalog number.*

Mounting:

ZACVH M100	Adjustable 10' aircraft cable with Y hanger (1 pair)
ZAC120	One adjustable aircraft cable with canopy 120", white
ZACFP120	One adjustable aircraft cable with feed (3 conductor) and canopy, 120", white
ZACFPD120	One adjustable aircraft cable with feed (5 conductor) and canopy 120", white
ZAC240	One adjustable aircraft cable with canopy 240", white
ZACFP240	One adjustable aircraft cable with feed (3 conductor) and canopy, 240", white
ZACFPD240	One adjustable aircraft cable with feed (5 conductor) and canopy 240", white

SQ_	Swivel stem hanger (specify length in 2" increments up to 48") Ships White ‡
THCLX ___	Tong hanger (Must specify color) (one pair) ‡
CLXANGBKT ____	Angle bracket, (Must specify color) (one pair) ‡
HC36 M12	Hanger chain, 36" (1 pair)

Wireguards:

WGCLX24 ___	24" wireguard qty 1, (Must specify color) ‡
WGCLX36 ___	36" wireguard qty 1, (Must specify color) ‡
WGCLX48 ___	48" wireguard qty 1, (Must specify color) ‡
WGCLX48 ___ J2	48" wireguard qty 2, (Must specify color) ‡
WGCLX48 ___ J25	48" wireguard qty 25, (Must specify color) ‡
WGCLX48 ___ J50	48" wireguard qty 50, (Must specify color) ‡

‡ Option Value Ordering Restrictions

Option value	Restriction
347V, 480V	Voltage selected utilizes a step-down transformer. Not available with L24 when ordered with N100. Not available with E10W or BGTD options.
BGTD	Not available with MVOLT, 208V or 240V. Not available with HA. Available with L48 or L96 only. Not available with E10W option. Not available with 208 or 240V. Not available Individual controls, NLight Wired, or NLight Wireless options.
CS1W, CS3W, CS7W, CS11W, CS25W, CS963W, CS97W	Not available with BGTD option. Must specify voltage. Not available with PLR options.
CS6WG16STOWD5D	Not available with Individual controls, nLight wired networking, nLight wireless networking, nLight wireless zone control options. Not available with PLR options.
Driver	When continuous row mounting, fixtures must all have the same driver selection.
E10W	Not available with HA. Not available with 347V or 480V. Not available with BGTD option. Requires SPD option. Not available with L24 or L36. Not available with L48 in combination with N100.
E10WSTAR	Not available with HA. Not available with 347V or 480V. Not available with BGTD option. Requires SPD option. Not available with L24 or L36. Not available with L48 in combination with N100.
EPNKO	Not available OUTEND.
EZ1	Not available with HA option. Not available with 5000LM, 7500LM.
FDL, RDL, WDL	Only available with general distribution. Not available with CLXRN accessories.
GZ1, GZ10	Not available with Individual controls, nLight wired networking, nLight wireless networking, nLight wireless zone control options.
HA	Not available with L24, L26. Not available with BGTD option. Not available with EZ1. Only available with L48 3000/4000/5000LM and L96 6000/8000/10000LM.
HEF	Not available with L48 3000LM and L96 6000LM
LUGR	Not available with L36 length. Only available with WH finish. Not compatible with THCLX Hanger or wireguard accessories. LUGR option required for some DLC premium qualifications - Please check the DLC Qualified Products List to determine if LUGR option is necessary to meet requirement. If mounting in continuous rows, ensure all models ordered with LUGR option if required on any configuration to ensure rows match in form factor. LUGR reflectors ship in standard fixture carton and are not sold as separate accessory - this option MUST be specified as part of the CLX model number.
MSD7, MSDPDT7, MSD7ADC, MSDPDT7ADC	Not available with any other control option. Requires EZ1. Sensor housing will be the same color as lens end caps.
N100, N100EMG	nLight EMG option requires a connection to existing nLight network. Power is provided from separate N100 enabled fixture.
ND, WD, AD2	Not available with CLXRN accessories. Available L/LENS only.
NES7, NESPDT7, NES7ADCX, NESPDT7ADCX	Not available with any other control option. Requires EZ1. Requires N100 or N100EMG option, N100EMG with NES7 requires RFA. Sensor housing will be the same color as lens end caps.
NLTAIR2 RES7(EM), NLTAIR2 RES7PDT(EM), NLTAIR2 RIO(EM)	Sensor housing will be the same color as lens end caps. For EM, see UL924 Sequence of Operation chart below.
OCS	Must specify voltage.
OUTCR	Not available with L24. Not available with PLR options.
OUTEND	Not available with PLR options.
PLR1LVG	Not available with Individual controls, NLight Wired, or NLight Wireless options. Refer to page 9 for more PLR details. Not available with cord set options.
SBLW, SBLMB, SBLGV, SBLSKGY	When ordered with L24 only available with 1500LM or 2000LM in combination with GZ10 driver. Not for use with THCLX, CLXANGBKT or WGCLX accessories. Not available with RDL lens options.
SEF	Not available with EZ1 when ordered with L24 with 5000LM or L36 with 7500LM.
SPD	Required with E10W, BGTD.
THCLX ___, CLXANGBKT ____	Not available with louver or wireguards. THCLX___ not available with LUGR.
Wireguards	Not for use with LUGR option. For L96 fixtures, use qty 2 48" wireguards.
SQ	No available with L24 or L36

UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

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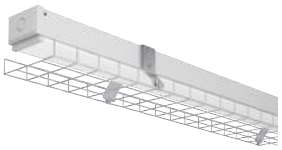
CLX LED Linear

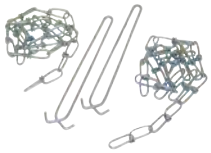
OPTIONS AND ACCESSORIES



Wireguard
Ships separately from fixture:
96" fixture requires two WGCLX48.
Order as:
WGCLX24___
WGCLX36___
WGCLX48___

LUGR glare reflector
NOT available as accessory - must be specified as part of the fixture nomenclature. See ordering notes on page 3.

Aircraft Cable with Canopy
Available in 120" or 240"
Order as:
ZAC120
ZAC240



HANGER CHAIN
36" chain with Y hanger. ships as a pair
Order as:
HC36

ZACVH HANGER
10' Aircraft cable with Y hanger.
Order as:
ZACVH

Tong hanger
Ships as a pair
Order As:
THCLX___

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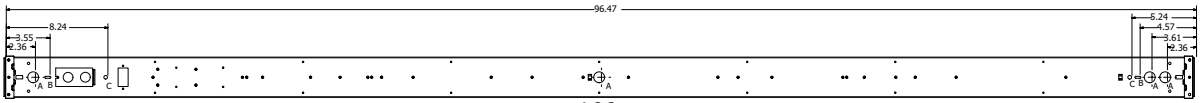
CLX LED Linear

DIMENSIONS

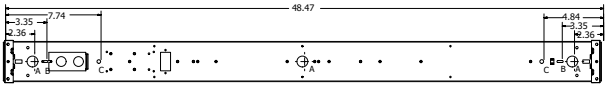
All dimensions are in inches (centimeters) unless otherwise indicated.
Dimensions may vary with options or accessories.

INTEGRATED SENSOR ADDS 2.0 INCHES TO STANDALONE FIXTURE LENGTH
HOUSING END CAP ADDS 0.236 INCHES TO FIXTURE LENGTH PER SIDE. DIMENSIONS BELOW INCLUDE ENDCAPS.

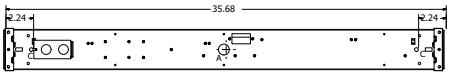
A - 7/8" KNOCK OUT
B - 0.5" by 0.16" SLOT
C - 0.3" DIA HOLE



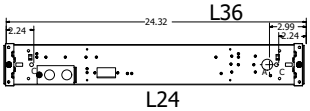
L96



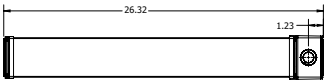
L48



L36



L24

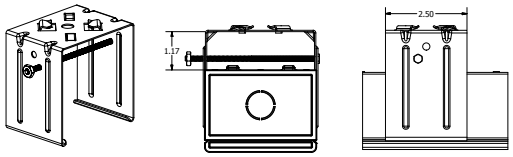


L24 WITH SENSOR

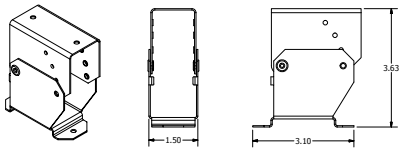
PALLET DIMENSIONS

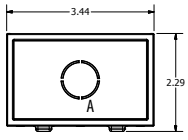
Length	Approx Weight	Fixtures per pallet	Pallet Dims (L X W X H)
L24	4 lb	100	54x46x37
L36	5 lb	80	54x46x37
L48	7.5 lb	64	54x46x37
L96	14 lb	64	98x46x37

THCLX - SHIPS TWO PER ORDER,
UTILIZES A #8 HEX HEAD SCREW AND NUT
FIXTURE SITS 1.3 INCHES FROM STRUCTURE WHEN MOUNTED

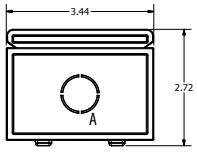


CLXANGBKT - SHIPS TWO PER ORDER
HOLES TO MOUNTING STRUCTURE ARE 0.175" DIA, 2.5" APART
FIXTURE SITS APPROXIMATELY 3.5" FROM STRUCTURE
WHEN MOUNTED HORIZONTAL TO STRUCTURE

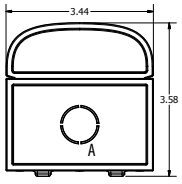




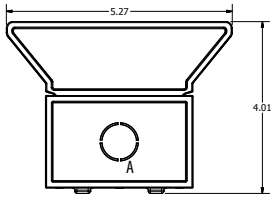
L/LENS



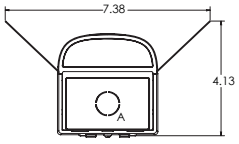
FDL



RDL



WDL



LUGR Reflector Option
- applies to all lens types

PHOTOMETRICS

See www.lithonia.com.

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CLX LED Linear

POWER SENTRY EMERGENCY BATTERY PACKS

		SEF Emergency Lumens	HEF Emergency Lumens
E10W	Factory installable	1400	1500
PS1555LCP	Field installable, remote mount only	2000	2100

Note: For emergency lumen output of specific model, please consult factory. One board will be illuminated during emergency operation.

Emergency Battery Pack Options - Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter / 2 Hour Runtime
ILB CP10 A	10W	90	1200	
ILBLP CP10 HE SD A	10W	90	1200	Title 20, Self Diagnostic
ILB CP10 HE AELR A	10W	90	1200	Title 20; Enabled with Self Testing, Automated Reporting (STAR)
ILBLP CP15 HE SD A	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic

All the above are UL Listed products that are certified for field install external/remote to the fixture.
*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.
The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.
Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.

Enabled with STAR

Emergency Lighting with Self-Testing Automated Reporting (STAR), enables self-testing and automated reporting to aid in life safety code compliance. Build your solution and choose your preferred deployment from Mobile STAR, where test data is logged in each individual unit and broadcast to the CI**AIR**ity™**+** app, or Connected STAR, where test data is logged in the STAR Gateway by IOTA® and emailed directly. **Leave the ladders, disruptions and written records behind with emergency lighting solutions with STAR!**

Life Safety Code NFPA 101 testing and reporting requirements for emergency lighting include:

- Testing for 30 seconds every 30 days
- Testing for 90 minutes once a year
- Record keeping and to report to the authority having local jurisdiction

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CLX LED Linear

CLX CHARACTERISTICS

Nominal Lumen Package	Length	Wattage								Length	Width	Depth	Comparable Light Source
		Standard Efficiency				High Efficiency							
		120V	277V	347V	480V	120V	277V	347V	480V	Dimensions are shown in inches			
2500LM	24"	18.4	18.4	24.0	24.0	17.4	17.4	23.1	23.1	24	3.5	3.75	1-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
5000LM	24"	41.5	41.5	47.4	47.4	38.1	38.1	44.1	44.1	24	3.5	3.75	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
3750LM	36"	26.5	26.5	32.1	32.1	25.1	25.1	30.7	30.7	36	3.5	3.75	1-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
7500LM	36"	62.6	62.6	68.6	68.6	54.0	54.0	59.7	59.7	36	3.5	3.75	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
5000LM	48"	31.8	31.8	37.2	37.2	30.3	30.3	35.8	35.8	48	3.5	3.75	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
10000LM	48"	70.7	70.7	76.2	76.2	65.3	65.3	70.8	70.8	48	3.5	3.75	3-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
10000LM	96"	63.7	63.7	69.0	69.0	60.6	60.6	66.1	66.1	96	3.5	3.75	3-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
20000LM	96"	141.3	141.3	146.8	146.8	130.5	130.5	136.1	136.1	96	3.5	3.75	6-lamp 32W T8, 4-lamp 54W T5HO, 200W HID

Note: For wattage by configuration, please reference the CLX Operational Data Document.

Lumen Package	UGR Values of CLX L24 @ 80CRI and 3500K UGR (70% 50% 20% reflectance using a 4H x 8H room size)													
	FDL		RDL		WDL		FDL LUGR		RDL LUGR		WDL LUGR		L/LENS	
	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise
1500LM SEF	21.2	23.8	19.4	25.2	17.4	21.1	16.8	14	17.8	16.6	18.1	17.9	24.9	25.1
2000LM SEF	22.3	24.9	20.5	26.3	18.6	22.3	17.9	15.1	18.8	17.6	19.2	18.9	26.1	26.2
2500LM SEF	23.1	25.7	21.3	27.1	19.4	23.1	18.6	15.8	19.6	18.4	19.9	19.7	26.9	27
3500LM SEF	24.1	26.7	22.3	28.1	20.4	24.1	19.7	16.9	20.7	19.5	21	20.8	27.9	28.1
4500LM SEF	25.4	28	23.6	29.4	21.7	25.4	20.7	17.9	21.7	20.5	22	21.8	29.2	29.3
5000LM SEF	25.6	28.2	23.3	29.1	21.4	25.1	21	18.3	21.5	20.3	21.8	21.5	29.4	29.5
1500LM HEF	21.1	23.7	19.3	25.1	21.8	25.5	16.5	13.7	17.6	16.3	17.8	17.6	24.9	25
2000LM HEF	22.2	24.8	20.4	26.2	17.4	21.1	17.6	14.8	18.6	17.4	18.8	18.6	26	26.2
2500LM HEF	23	25.7	21.3	27	18.5	22.2	18.4	15.6	19.4	18.2	19.7	19.4	26.8	27
3500LM HEF	24.1	26.7	22.3	28.1	19.3	23	19.8	17	20.9	19.7	21.1	20.9	27.9	28
4500LM HEF	25.3	27.9	23.5	29.3	20.4	24.1	20.8	18	21.8	20.6	22.1	21.8	29.1	29.3
5000LM HEF	25.5	28.1	23.7	29.5	21.6	25.3	21.1	18.3	22.1	20.9	22.3	22.1	29.3	29.5

UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application

Lumen Package	UGR Values of CLX L36 @ 80CRI and 3500K UGR (70% 50% 20% reflectance using a 4H x 8H room size)							
	FDL		RDL		WDL		L/LENS	
	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise
2250LM SEF	21.4	24.1	19.7	25.6	17.7	21.6	25.2	25.4
3000LM SEF	22.3	25	20.6	26.5	18.6	22.5	26.2	26.3
3750LM SEF	23.2	25.9	21.4	27.3	19.5	23.4	27	27.2
5250LM SEF	24.2	26.9	22.5	28.4	20.5	24.4	28	28.2
6750LM SEF	25.1	27.8	23.3	29.2	21.4	25.3	28.9	29
7500LM SEF	25.4	28.1	23.6	29.5	21.7	25.6	29.2	29.4
2250LM HEF	25	27.7	20.5	26.4	18.6	22.5	25.2	25.3
3000LM HEF	25.3	28	21.4	27.3	19.4	23.3	26.1	26.2
3750LM HEF	21.4	24.1	22.4	28.3	20.5	24.4	27	27.1
5250LM HEF	22.3	25	23.2	29.2	21.3	25.2	28	28.1
6750LM HEF	23.1	25.8	23.6	29.5	21.6	25.5	28.8	29
7500LM HEF	24.2	26.8	19.6	25.5	17.7	21.6	29.1	29.3

UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR and/or "Point-UGR" values.
To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application

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CLX LED Linear

Lumen Package	UGR Values of CLX L48 @ 80CRI and 3500K UGR (70% 50% 20% reflectance using a 4H x 8H room size)													
	FDL		RDL		WDL		FDL LUGR		RDL LUGR		WDL LUGR		L/LENS	
	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise
3000LM SEF	21.8	24.5	19.7	25.3	18.6	23.4	19.2	16.5	20.2	19	20.6	20.3	24.8	25.6
4000LM SEF	22.8	25.5	20.7	26.3	19.6	24.4	20.3	17.5	21.2	20	21.6	21.4	25.8	26.6
5000LM SEF	23.6	26.3	21.4	27	20.4	25.2	21	18.2	21.9	20.7	22.3	22.1	26.6	27.3
7000LM SEF	24.8	27.6	22.7	28.3	21.6	26.5	22.3	19.6	23.3	22.1	23.7	23.4	27.8	28.6
9000LM SEF	25.6	28.4	23.5	29.1	22.5	27.3	23.2	20.4	24.1	22.9	24.5	24.3	28.6	29.4
10000LM SEF	26	28.7	23.8	29.5	22.8	27.6	23.6	20.8	24.5	23.3	24.9	24.7	29	29.8
3000LM HEF	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4000LM HEF	22.8	25.6	20.7	26.3	22.8	25.6	20.3	17.5	21.3	20.1	21.7	21.4	29.5	30.3
5000LM HEF	23.6	26.3	21.4	27	23.6	26.3	21	18.2	21.9	20.7	22.3	22.1	30.2	31
7000LM HEF	24.8	27.6	22.7	28.3	24.8	27.6	22.4	19.6	23.4	22.2	23.8	23.5	27.8	28.6
9000LM HEF	25.7	28.4	23.6	29.2	25.7	28.4	23.2	20.4	24.2	23	24.6	24.3	28.7	29.5
10000LM HEF	26	28.7	23.9	29.5	26	28.7	23.6	20.9	24.6	23.4	25	24.7	29	29.8

UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application

Lumen Package	UGR Values of CLX L96 @ 80CRI and 3500K UGR (70% 50% 20% reflectance using a 4H x 8H room size)													
	FDL		RDL		WDL		FDL LUGR		RDL LUGR		WDL LUGR		L/LENS	
	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise
6000LM SEF	21.8	24.6	19.7	25.4	17.9	22.4	19.3	16.5	20.2	19	20.6	20.4	24.8	25.6
8000LM SEF	22.8	25.5	20.7	26.4	18.8	23.4	20.3	17.6	21.2	20.1	21.6	21.4	25.8	26.6
10000LM SEF	23.6	26.3	21.4	27.2	19.6	24.2	21	18.3	21.9	20.8	22.3	22.1	26.5	27.3
14000LM SEF	24.8	27.6	22.7	28.5	20.9	25.5	22.4	19.6	23.3	22.1	23.7	23.5	27.8	28.6
18000LM SEF	25.7	28.4	23.5	29.3	21.7	26.3	23.2	20.5	24.1	23	24.5	24.3	28.6	29.4
20000LM SEF	26	28.7	23.9	29.6	22	26.6	23.6	20.9	24.5	23.4	24.9	24.7	29	29.7
6000LM HEF	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8000LM HEF	22.8	25.6	20.7	26.5	18.9	23.5	20.4	17.6	21.3	20.1	21.7	21.5	25.8	26.6
10000LM HEF	23.6	26.3	21.4	27.2	19.6	24.2	21	18.3	21.9	20.8	22.3	22.1	27	27.8
14000LM HEF	24.9	27.6	22.7	28.5	20.9	25.5	22.4	19.7	23.4	22.2	23.8	23.5	27.8	28.6
18000LM HEF	25.7	28.4	23.6	29.3	21.7	26.3	23.2	20.5	24.2	23	24.6	24.3	28.7	29.5
20000LM HEF	26	28.8	23.9	29.6	22.1	26.6	23.7	20.9	24.6	23.4	25	24.8	29	29.8

UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application

Interface Engineering
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CLX LED Linear

AMBIENT TEMPERATURE RATINGS

Driver Package		GZ10			EZ1 or EOHN			Any Driver	
Length	**Lumen package**	**Direct Surface**	**THCLX/ Suspended**	**HA Option (Direct or Suspended)**	**Direct Surface**	**THCLX**	**Suspended 18"**	**Xpoint/ BGTD Direct Surface**	**E10W Suspended**
L24	1500LM	40C	40C	N/A	35C	35C	35C	N/A	N/A
	2000LM	40C	40C		35C	35C	35C		
	2500LM	40C	40C		35C	35C	35C		
	3000LM	40C	40C		40C	40C	40C		
	4500LM	40C	40C		35C	35C	40C		
	5000LM	40C	40C		25C	30C	35C		
L36	2250LM	40C	40C		40C	40C	40C		
	3000LM	40C	40C		40C	40C	40C		
	3750LM	40C	40C		40C	40C	40C		
	5250LM	40C	40C		35C	35C	40C		
	6750LM	30C	40C		35C	35C	40C		
	7500LM	30C	40C		25C	30C	35C		
L48	3000LM	40C	40C	50C	40C	40C	40C	35C	25C
	4000LM	40C	40C	50C	40C	40C	40C		
	5000LM	40C	40C	50C	35C	35C	40C		
	7000LM	30C	40C	N/A	35C	35C	40C		
	9000LM	30C	40C		25C	30C	35C		
	10000LM	30C	40C		25C	30C	35C		
L96	6000LM	40C	40C	50C	35C	35C	40C		
	8000LM	30C	40C	50C	35C	35C	40C		
	10000LM	30C	40C	50C	25C	30C	35C		
	14000LM	40C	40C	N/A	35C	35C	40C		
	18000LM	30C	40C		25C	30C	35C		
	20000LM	30C	40C		25C	30C	35C		

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CLX LED Linear

RRL - RELOC®-Ready Luminaire

- RRL connectors can be used with Quick-Flex®, System 820 and OnePass® systems.
- Load side of connector factory installed to luminaire.
- 4-pole mating connector with push-in terminations allows for simple installation.
- Touch-safe design on both halves meets UL/CSA requirement.
- Wiping contact design allows safe disconnect under load.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example**: RRLA

Series		Wiring instructions	
RRL	RELOC®-ready luminaire	A	Hot conductor wired to position #1 (phase A)
		B	Hot conductor wired to position #2 (phase B)
		C	Hot conductor wired to position #3 (phase C) [1]
		C12S	Ballast/driver wired to pin position #1 (120V, 277V, 347V - Phase A). Low voltage wire (positive/purple) (data1) wired to pin position #2. Low voltage wire (common/gray) (data2) wired to pin position #3 [2]

Compatible RELOC® Cables for Industrial Luminaires (ordered and shipped separately)


OCS


OCU


OD


DC


PT

Notes

1 C, ABE, and C12S options are not used with Quick-Flex QFC, QSFC, QPT, and QD.

2 RRLC12S option is to be used with the OnePass OCU, OCS, OD, OFC and OD for 0-24V integrated single-circuit or 0-10V low voltage controls applications. Not available with integral dimming sensors.

PLUG-IN WIRING INFORMATION

Advanced plug-in system with two-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. PLR22 (2-circuit) and crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy.

Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA certified systems available with up to 2 circuits. G ground required.

Not for use with dedicated emergency circuits.

Note: Specifications subject to change without notice.

Wiring

PLR

Advanced 1 or 2-Circuit Plug-In

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Series	Number of hot wires		Branch circuits (PLR2A / PLR2B Only)				Dimming		Ground	
PLR22	(blank)	Not required for PLR22	(blank)	Not required for PLR22			(blank)	No Dimming	G	Ground (required)
PLR	1	Black	(blank)	Not required for PLR1			(blank)	No Dimming	G	Ground (required)
	2	Black and red	**Circuits to which driver is connected**		**Battery charging circuit (must be unswitched)**		LV	Low-voltage Dimming	G	Ground (required)
			(blank)	Not required for PLR22	(blank)	No battery charging circuit				
			A	Black wire	ELA	Battery pack wired to black wire				
			B	Red wire	ELB	Battery pack wired to red wire				

Typical Applications

Notes:

When specifying PLR1, you will not specify A or B as there is only a single hot wire which would be black in color.

- Multiple-circuit and single-circuit for longer continuous rows
- Multiple-circuit with alternating fixtures on separate circuits and 2-circuit PLR22
- Multiple circuit with night-lights located along row as desired

