FSG
national accounts

Wesley McIntire > jpmcretail@fsgi.com

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Ph (214) 351-6266 > Fx (888) 462-2329

JPMC WAUWATOSA

WAUWATOSA, WI

SUBMITTAL INDEX

SUBMISSION DATE:	9/12/2023	**SUBMITTAL REV # :**	
PLAN DATE:	9/11/2023	**FOR RECORD:**	☐
CUSTOMER NAME:	JPMC	**FOR APPROVAL:**	X
PROJECT NAME:	WAUWATOSA	**CUSTOMER PO# :**	
CITY, STATE:	WAUWATOSA, WI	**PROJECT / STORE #:**	
PREPARED BY:	WES MCINTIRE	**PROJECT MANAGER / #:**	

TYPE	MANUFACTURER	DESCRIPTION	FIXTURE QTY	LAMP	LAMP QTY	VOLT	ISSUE CODE	NOTES
SL2	GE	EACL010F4AF740-DIMMING- D1-FINISH	5	LED INTEGRAL		DUAL		
L21-B	EATON	XTOR6B-W	1	LED INTEGRAL		DUAL		
NL6-A	GE	ECLS01_T5SM740-SM-WHTE	2	LED INTEGRAL		DUAL		
W1	EATO N	9004-W2-RW-LED3090-W-BK-L1-UNV	6	LED INTEGRAL		DUAL		
L7	LF ILLUMINATION	5811-1SAT20L8040W	4	LED INTEGRAL				

CODES IN RED REQUIRE RESOLUTION PRIOR TO ORDER AND RELEASE - ADVISE & CONFIRM

1 - RUN DATA / "BOM" (Bill of Materials)	4 - CONFIRM MOUNTING	8 - LAMP COLOR / BEAM SPREAD
2 - OMH (Overall Mounting Height)	5- CONFIRM CEILING TYPE	9 - EXIT FACES, ARROWS, AND MOUNTING
3 - CONFIRM VOLTAGE	6 - CONFIRM FINISH / COLOR	

VOLTAGE OPTIONS:

DUAL - 120/277 PRIMARY 120 - 120 VOLT PRIMARY	277 - 277 VOLT PRIMARY	120/12 - STEP DOWN TRANSFORMER
277/12 - STEP DOWN TRANSFORI REM - REMOTE BALLAST OR TRANSFORMER	DIM - DIMMING BALLAST	

Please Note The Following:

ENCLOSED SUBMITTAL IS BASED ON INTERPRETATION OF THE DRAWINGS AND/OR SPECIFICATIONS PROVIDED TO FSG.
ALL FIXTURES ARE TO BE REVIEWED AND APPROVED BY THE SPECIFIER TO ENSURE THAT THE ENCLOSED PACKAGE MEETS DESIGN INTENT. IF THERE IS A CONFLICT BETWEEN THE WRITTEN SPECIFICATION AND THE SPECIFIED PACKAGE, FSG IS TO BE NOTIFIED IN WRITING. FSG WILL BE HELD HARMLESS FOR ANY CHANGES IN DRAWINGS AND/OR SPECIFICATIONS. IF THIS PACKAGE IS IN AGREEMENT WITH SPECIFICATION, PLEASE SIGN AND DATE BELOW.

NOTE: MATERIAL WILL NOT BE ORDERED UNTIL THE SUBMITTALS ARE APPROVED AND RETURNED.

Approving Signature:

Authorized Signature: _____   Date: _____

EVOLVE

EACL® Series
LED Area Light/Compact Low Wattage

Current's EAL Series of Area Light Luminaires offer a wide range of optical patterns, color temperatures, lumen packages, and mounting configurations to optimize area light applications, as well as provide versatility in lighting design within the same form factor.

Construction

Housing:	Die-cast aluminum housing with integral heat sink for maximum heat transfer
Paint:	Corrosion resistant polyester powder paint, minimum 2.0 mil thickness Standard = Black, Dark Bronze Gray, White (RAL & custom colors available) Optional coastal finish available.
Weight:	18 lbs (8.16 kg) Max depending on configuration

Optical System

Lumens:	2,900 - 20,400
Distribution:	Asymmetric Forward Type IV Asymmetric Wide Type III Asymmetric Narrow/Auto Type II
Efficacy:	123 - 143 LPW
CCT:	3000K, 4000K, 5000K
CRI:	≥70

Electrical

Input Voltage:	120-277V & 347-480V
Input Frequency:	50/60Hz
Power Factor:	> 90% at rated watts
Total Harmonic Distortion:	< 20% at rated watts

Surge Protection*

TYPCIAL (120 STRIKES)	ENHANCED (40 STRIKES)	
6kV/3kA*	10kV/5kA*	

*Per ANSI C136.2-2015

Warranty

5 Year (Standard)

Lumen Maintenance

Projected Lxx per IES TM-21-11 at 25°C

| LUMEN CODES | LXX(10K) @ HOURS | | |
	25,000 HR	50,000 HR	60,000 HR
A2, A3, A4, B2, B3, B4, C2, C3, C4D2, D3, D4, E2, E3, E4, F2, F3, F4	L94	L90	L88
H2,H3, H4	L97	L96	L96

Note: Projected Lxx based on LM80 (≥ 10,000 hour testing). Accepted Industry tolerances apply to initial luminous flux and lumen maintenance measurements.

Luminaire Ambient Temperature Factor

AMBIENT TEMP (°C)	INITIAL FLUX FACTOR	AMBIENT TEMP (°C)	INITIAL FLUX FACTOR
10	1.02	30	0.99
20	1.01	40	0.98
25	1.00	50	0.97

Ratings

Operating Temperature:	-40°C to 50°C
Vibration:	3G vibration per ANSI C136.31-2018
LM-79:	Testing in accordance with IESNA Standards

Controls

| Dimming: | Standard - 0-10V
Optional - DALI (Option U) |
| Sensors: | Photo Electric Sensors (PE) available
LightGrid and Daintree Compatible |

DLC LISTED · UL LISTED · UL CERTIFIED · UL1598 · IP66 Optical Only · IK08

**Not all product variations listed on this page are DLC qualified.
Visit www.designlights.org/search to confirm qualifications.**

EVOLVE

EACL® Series
LED Area Light/Compact Low Wattage

CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

Ordering Information

EACL   01   7

- - - -   - -   -   - -   - -   -   - -   -   -   - -   - - - -   - - - -

PROD. ID	GEN	VOLTAGE	OPTIC CODE	DISTRIBUTION	CRI (MIN)	CCT	DIMMING[2]	CONTROLS	MOUNTING ARM	COLOR	OPTIONS
E = Evolve	01	0 = 120-277V[1]	Ax=3000 lm	AF = Asymmetric Forward	7 = 70	30 = 3000K[11]	N = Dimming thru PE receptacle	1 = None	C1 = Integral Slip-fitter for 1.25"- 2" Pipe (1.66in. OD - 2.378 in. OD)[4]	GRAY = Gray	F = Fusing
AC = Compact Area Light		H = 347-480V[1]	Bx=5000 lm	AW = Asymmetric Wide		40 = 4000K	D = External Dimming 18/2-3ft cable	A = ANSI 7-pin PE receptacle (no control)	D1 = Universal Mounting Arm, fitted for round or square pole mounting[5]	BLCK = Black	H1 = Motion Sensor w/ LightGrid
L = Low Voltage		1 = 120V	Cx=7500 lm	AN = Asymmetric Narrow/Auto		50 = 5000K	X = No External Dimming Leads	D = ANSI 7-pin PE receptacle with shorting cap provided	K1 = Knuckle Slipfitter for 1.9 in - 2.3in. OD Tenon[5,6]	DKBZ = Dark Bronze	H2 = Motion Sensor (Daintree)[8]
		2 = 208V	Dx=10000 lm					E = ANSI C136.41 7-pin with Non-Dimming PE Control[3]	S1 = Knuckle Slipfitter for 2.3in. - 3.0in OD Tenon[5,6]	WHTE = White	H4 = Motion Sensor (Wattstopper)
		3 = 240V	Dx=10000 lm						V1 = Knuckle Wall Mount [5,6]		J = cUL/Canada
		4 = 277V	Ex=12500 lm								L = Tool-Less Entry
		5 = 480V	Fx=15000 lm								R= Enhanced Surge Protection (10kV/5kA)
		D = 347V	Hx=20000 lm								U = DALI dimming[7]
											V = 3-Position Terminal Block
											Y = Coastal Finish[10]
											XXX = Special Options

[1] Not Available with Fusing, Must Choose a Discrete Voltage with "F" Option Code
[2] Note Standard Dimming is 0-10V
[3] PE Control only available for 120-277V, 347V or 480V Discrete Voltage.
[4] Supplied with 3ft leads
[5] Supplied with 16/3 ft Cable
[6] Restricted Aiming Angle of 0-45º

[7] Compatible with LightGrid Wireless Control Nodes, Not Compatible with Motion Sensor Control
[8] H2 Sensor is not available in High Voltage (347V, 480V or 347-480V)
[10] Recommended for installations within 750 feet from coast. Lead time varies, check with factory.
[11] Select 3000K CCT for IDA approved fixtures.

EVOLVE

EACL® Series
LED Area Light/Compact Low Wattage

CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

OPTICAL CODE	DIST CODE	CLASSIFICATION	TYPICAL LUMENS		TYPICAL SYSTEM WATTAGE		BUG RATING	
			3000K	4000K &5000K	120-277V	347-480V	3000K	4000K &5000K
A4	AF	TYPE IV	2900	2900	21	23	B1-UO-G1	B1-UO-G1
B4			4900	4900	36	38	B1-UO-G1	B1-UO-G1
C4			7300	7300	55		B1-UO-G2	B1-UO-G2
D4			9800	9800	73		B2-UO-G2	B2-UO-G2
E4			12200	12200	95		B2-UO-G2	B2-UO-G2
F4			14700	14700	122		B2-UO-G2	B2-UO-G2
H4			19000	19000	153		B3-UO-G3	B3-UO-G3
A3	AW	TYPE III	2900	3000	21	23	B1-UO-G1	B1-UO-G1
B3			4900	5100	36	38	B1-UO-G1	B1-UO-G1
C3			7400	7600	55		B1-UO-G2	B1-UO-G2
D3			9900	10200	73		B2-UO-G2	B2-UO-G2
E3			12400	12700	95		B2-UO-G2	B2-UO-G2
F3			14900	15300	122		B2-UO-G2	B2-UO-G2
H3			19300	20400	153		B3-UO-G2	B3-UO-G2
A2	AN	TYPE II	2900	3000	21	23	B1-UO-G1	B1-UO-G1
B2			4900	5000	36	38	B1-UO-G1	B1-UO-G1
C2			7300	7500	55		B2-UO-G1	B2-UO-G2
D2			9800	10100	73		B2-UO-G2	B2-UO-G2
E2			12300	12600	95		B2-UO-G2	B2-UO-G2
F2			14700	15100	122		B3-UO-G2	B3-UO-G3
H2			19100	20200	153		B3-UO-G3	B3-UO-G3

For additional information on Non-Shielded and Shielded EACL IES files, please refer to LED.com

E V O L V E

EACL® Series
LED Area Light/Compact Low Wattage
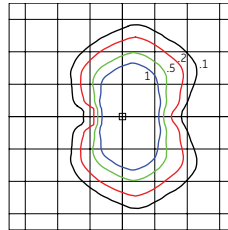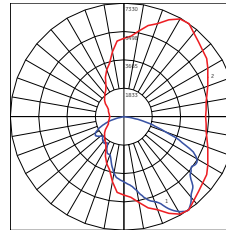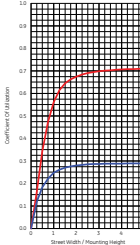
CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____
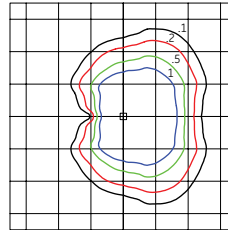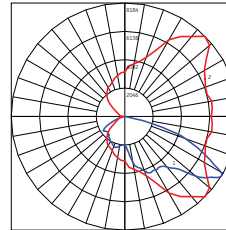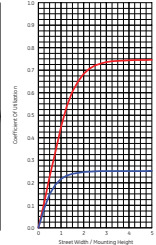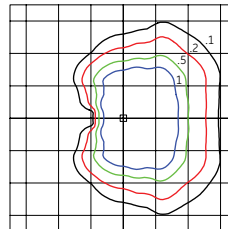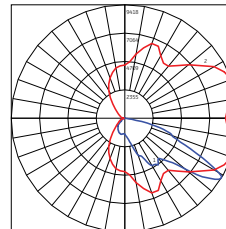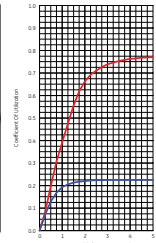
EACL - Type II - Very Short

15,100 lumens
EACL01_F2AN750___.IES

Grid Distance in Units
of Mounting Height at 20' Initial
Footcandle Values at Grade

— Vertical plane through horizontal angle
of maximum candlepower at XX°
— Vertical plane through horizontal angle of XX°

EACL - Type III - Short

15,300 lumens
EACL01_F3AW750___.IES

Grid Distance in Units
of Mounting Height at 20' Initial
Footcandle Values at Grade

— Vertical plane through horizontal angle
of maximum candlepower at XX°
— Vertical plane through horizontal angle of XX°

EACL - Type III - Very Short

15,000 lumens
EACL01_F4AF750___.IES

Grid Distance in Units
of Mounting Height at 20' Initial
Footcandle Values at Grade

— Vertical plane through horizontal angle
of maximum candlepower at XX°
— Vertical plane through horizontal angle of XX°

E V O L V E

EACL® Series
LED Area Light/Compact Low Wattage

CUSTOMER NAME _____
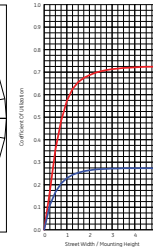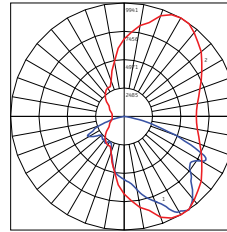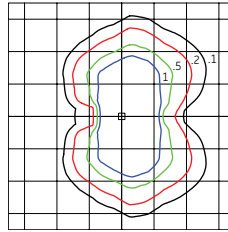
PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

EACL - Type II- Very Short

20,200 lumens
EACL01_H2AN750___.IES

**Grid Distance in Units
of Mounting Height at 20' Initial
Footcandle Values at Grade**

— Vertical plane through horizontal angle
of maximum candlepower at XX°
— Vertical plane through horizontal angle of XX°

EACL - Type III - Short

20,400 lumens
EACL01_H3AW750___.IES

**Grid Distance in Units
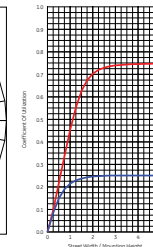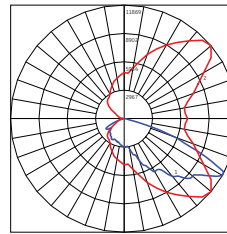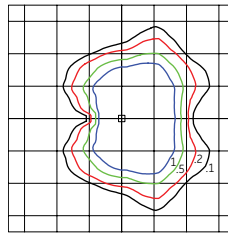of Mounting Height at 20' Initial
Footcandle Values at Grade**

— Vertical plane through horizontal angle
of maximum candlepower at XX°
— Vertical plane through horizontal angle of XX°

EACL - Type IV - Very Short

20,000 lumens
EACL01_H4AF750___.IES

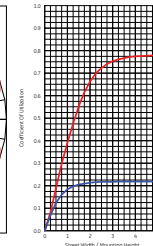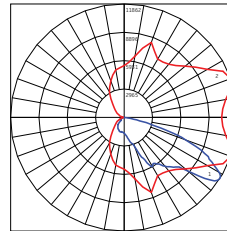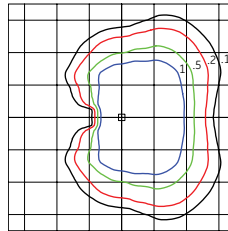**Grid Distance in Units
of Mounting Height at 20' Initial
Footcandle Values at Grade**

— Vertical plane through horizontal angle
of maximum candlepower at XX°
— Vertical plane through horizontal angle of XX°

Current⊙

LED.com

EVOLVE

EACL® Series
LED Area Light/Compact Low Wattage
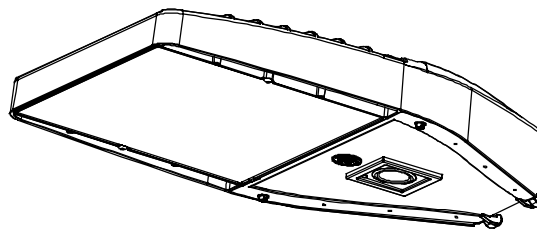
CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

H-Motion Sensing Option

- Recommended Mounting Height: 15-30' (4.6-9.1m)
- For mounting heights exceeding 30 ft., pole mounted sensors are recommended
- Coverage Radius: 15-20' (4.6-6.1 m).
- Provides 270 degree of coverage (approx 90 is blocked by the pole)
- Default Settings:
  – Output: Occupied - 100%/Unoccupied - 50%
  – Integral PE Sensor.
  – 5 minute post-occupancy time delay, 5 minute dimming ramp-down.
- Fixture power increase of 1W expected with sensor use.

H1/4 - Motion Sensing Option (WattStopper)

- Recommended Mounting Height: 15-30' (4.6-9.1m)
- For mounting heights exceeding 30 ft., pole mounted sensors are recommended
- Coverage Radius: 15-20' (4.6-6.1 m).
- Provides 270 degree of coverage (approx 90 is blocked by the pole)
- Default Settings:
  – Output: Occupied - 100%/Unoccupied - 50%
  – PE Sensor: Enabled
  – Ramp/Fade: 5 Minutes/5 Minutes
- Adds < 1W to fixture power rating
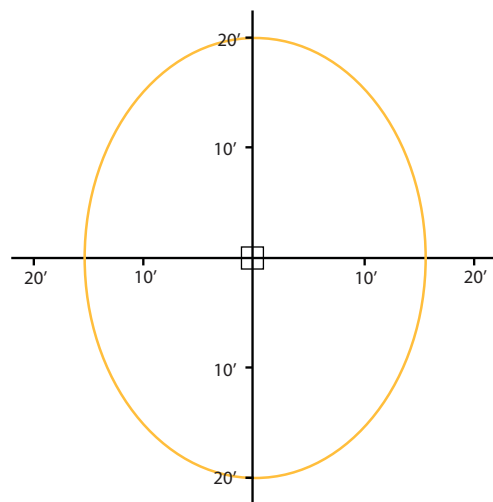- Field programmable using FSIR-100 hand held programmer

H2 - Daintree Enabled Motion Sensing Option

- Recommended Mounting Height: 15-30' (4.6-9.1m)
- For mounting heights exceeding 30 ft., pole mounted sensors are recommended
- Provides a coverage area radius for walking motion of 15-20 ft. (4.57-6.10m)
- Provides 270 degree of coverage (approx 90 is blocked by the pole)
- Default Settings:
  – Output: Occupied - 100%/Unoccupied - 50%
  – PE Sensor: Enabled
  – Ramp/Fade: 5 Minutes/5 Minutes
- Adds < 1W to fixture power rating
- Requires wide area control (WAC)

Sensing Pattern Area Fixture
Up to 30 ft. Mounting Height

Submitting Agency:

lighting > electrical > energy
technology > signs
214-351-6266

Description: **EACL010F4AF740-DIMMING- D1-FINISH**
Project: **JPMC WAUWATOSA**
Notes:

Type:
SL2

EVOLVE

EACL® Series
LED Area Light/Compact Low Wattage

CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

Integral Slipfitter: C1

19.6in

11.9in
[301mm]

5.0in
[127mm]

Adjustable for 1-1/4 to 2 in. Mounting Pipe
(1.660 to 2.375 inch OD)
[42 to 60 mm OD]
Depth of 2.9 to 3.6 in.

R11.3in
[287mm]

1.8in
[44mm]

Knuckle Slipfitter: S1

23.6in
[599mm]

5.0in
[127mm]

10.0in
[254mm]

R11.3in
[287mm]

1.8in
[44mm]

Knuckle Slipfitter: K1

23.3in
[592mm]

5.0in
[127mm]

9.3in
[235mm]

R11.3in
[287mm]
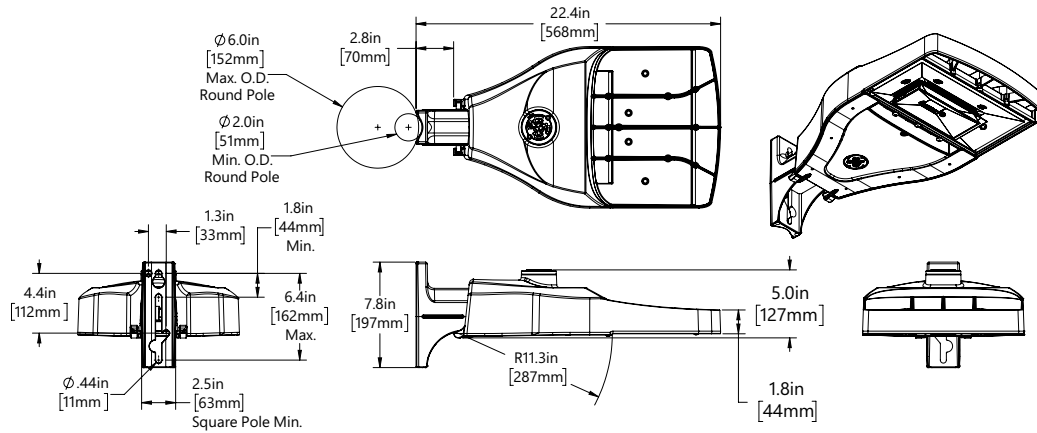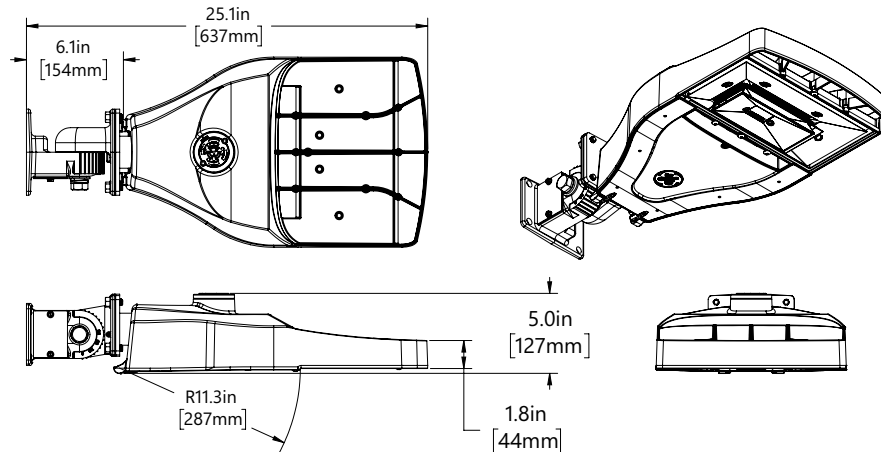
1.8in
[44mm]

Current

EVOLVE

EACL® Series
LED Area Light/Compact Low Wattage

CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

Universal Mounting Arm: D1

Ø6.0in [152mm] Max. O.D. Round Pole

Ø2.0in [51mm] Min. O.D. Round Pole

2.8in [70mm]

22.4in [568mm]

1.3in [33mm]

1.8in [44mm] Min.

4.4in [112mm]

6.4in [162mm] Max.

Ø.44in [11mm]

2.5in [63mm] Square Pole Min.

7.8in [197mm]

R11.3in [287mm]

5.0in [127mm]

1.8in [44mm]

Knuckle Wall Mount: V1

25.1in [637mm]

6.1in [154mm]

R11.3in [287mm]

5.0in [127mm]

1.8in [44mm]

Weight

- 18 lbs (8.16 kg) Max depending on configuration

Effective Projected Area

- Integral Slipfitter C1, EPA = 0.31 Min/0.37 Max
- Universal Arm Mount D1, EPA = 0.31 Min / 0.52 Max
- Knuckle Slipfitter S1, K1 downward aim, EPA = 0.46 Min / 0.56 Ma
- Knuckle Slipfitter S1, K1 45° aim, EPA = 0.56 Min / 1.03 Max
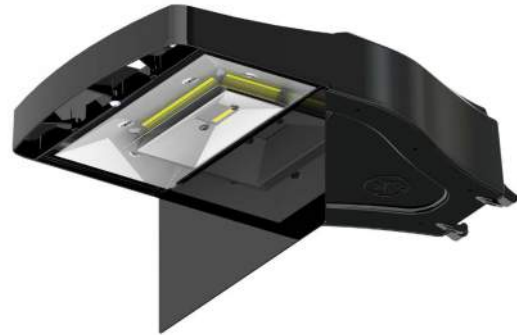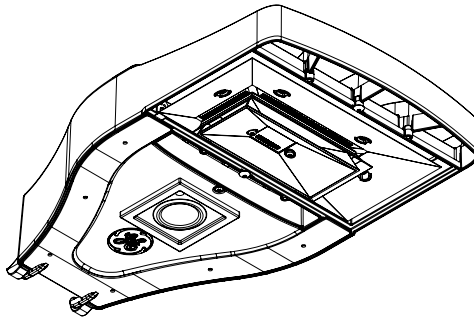
EVOLVE

EACL® Series
LED Area Light/Compact Low Wattage

CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

PE Accessories (To Be Order Separately)

SAP NUMBER	PART NUMBER	DESCRIPTION
93123552	WANSI - 277	ANSI 136.41 Dimming PE Danitree Enable, 105-305V
93123553	WANSI - 480	ANSI 136.41 Dimming PE Danitree Enable, 312-530V
93029237	PED-MV-LED-7	ANSI C136.41 Dimming PE, 120-277V
93029238	PED-347-LED-7	ANSI C136.41 Dimming PE, 347V
93029239	PED-480-LED-7	ANSI C136.41 Dimming PE, 480V

SAP NUMBER	PART NUMBER	DESCRIPTION
28299	PEC0TL	STANDARD 120-277V
28294	PEC5TL	STANDARD 480V
80436	PECDTL	STANDARD 347V
73251	SCCL-PECTL	Shorting cap

Back Light Shied

SHIELD ORIENTATIONS	CUTOFF DISTANCE	SHIELD ORDER LOGIC
Back	Long	ELS-EACL-RBL-BLCK

E V O L V E

EACL® Series
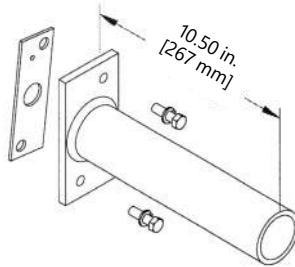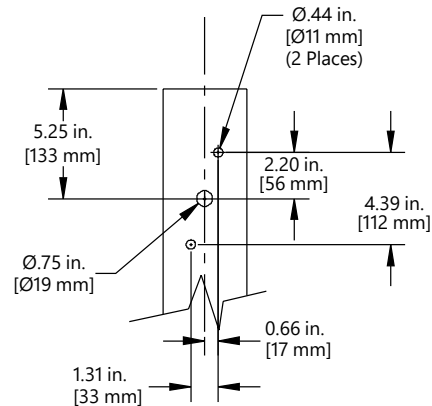### LED Area Light/Compact Low Wattage

CUSTOMER NAME _____
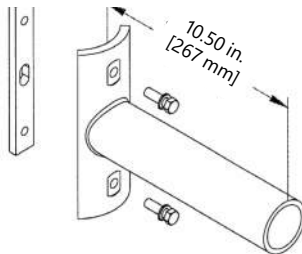
PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

Mounting Arms for Slipfitter Order separately with Mounting Option C1 (Slipfitter)
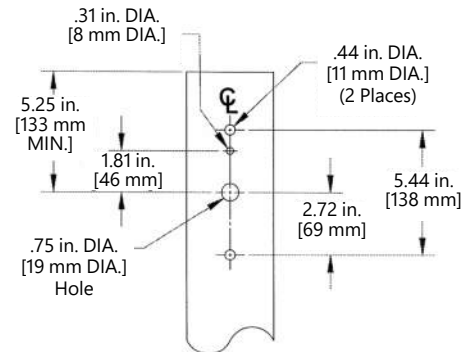
Square pole mounting arm

• 3.5 to 4.5-inch (89 to 114mm) square (will allow 4 fixtures per pole @ 90 degrees.)

10.50 in. [267 mm]

Square pole mounting drilling template

Ø.44 in. [Ø11 mm] (2 Places)

5.25 in. [133 mm]

2.20 in. [56 mm]

4.39 in. [112 mm]

Ø.75 in. [Ø19 mm]

0.66 in. [17 mm]

1.31 in. [33 mm]

Round Pole Mounting Arm

• 3.5 to 4.5-inch (89 to 114mm) od (will allow 4 fixtures per pole @ 90 degrees.)

10.50 in. [267 mm]

Order separately from fixture as catalog number

• RPA-EAMT10BLCK "Black"
• RPA-EAMT10DKBZ "Dark Bronze"
• RPA-EAMT10WHTE "White"
• RPA-EAMT10GRAY "Gray"

Wall Mounting Bracket Adapter Plate
Order seperately from fixture as catalog number WMB-EAMT06

*NOTE: For Wall Mounting, order luminaire with mounting arm: C1 = Slipfitter 2" Pipe (2.378 in. OD) supplied with leads.

Other mounting patterns are available for retrofit installations. Contact manufacturing for other available mounting patterns.

Round Pole Mounting Drilling Template

• 3.5 TO 4.5-inch (89 to 114mm) OD round pole mounting arm

.31 in. DIA. [8 mm DIA.]

.44 in. DIA. [11 mm DIA.] (2 Places)

5.25 in. [133 mm MIN.]

1.81 in. [46 mm]

5.44 in. [138 mm]

2.72 in. [69 mm]

.75 in. DIA. [19 mm DIA.] Hole

Wall MOUNTING Bracket Hole Pattern
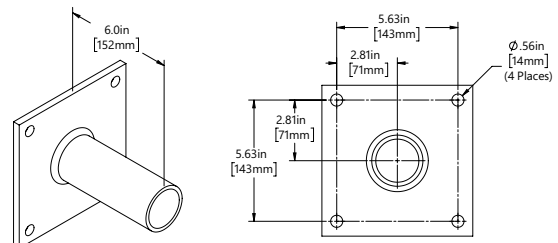
6.0in [152mm]

5.63in [143mm]

2.81in [71mm]

Ø.56in [14mm] (4 Places)

2.81in [71mm]

5.63in [143mm]

Submitting Agency:

lighting > electrical > energy
technology > signs
FSG FACILITY SOLUTIONS GROUP
214-351-6266

Description: **XTOR6B-W**
Project: JPMC WAUWATOSA
Notes:

Type:
L21-B

Lumark

DESCRIPTION

The patented Lumark Crosstour™ MAXX LED wall pack series of luminaries provides low-profile architectural style with super bright, energy-efficient LEDs. The rugged die-cast aluminum construction, back box with secure lock hinges, stainless steel hardware along with a sealed and gasketed optical compartment make Crosstour impervious to contaminants. The Crosstour MAXX wall luminaire is ideal for wall/surface, inverted mount for facade/canopy illumination, perimeter and site lighting. Typical applications include pedestrian walkways, building entrances, multi-use facilities, industrial facilities, perimeter parking areas, storage facilities, institutions, schools and loading docks.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Low-profile LED design with rugged one-piece, die-cast aluminum back box and hinged removable door. Matching housing styles incorporate both a full cutoff and refractive lens design. Full cutoff and refractive lens models are available in 58W, 81W and 102W. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes four 1/2" NPT threaded conduit entry points. The back box is secured by four lag bolts (supplied by others). External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Not recommended for car wash applications.

Optical
Silicone sealed optical LED chamber incorporates a custom engineered reflector providing high-efficiency illumination. Full cutoff models integrate an impact-resistant molded refractive prism optical lens assembly meeting requirements for Dark Sky compliance. Refractive lens models incorporate a molded lens assembly designed for maximum forward throw. Solid state LED Crosstour MAXX luminaries are thermally optimized with eight lumen packages in cool 5000K, neutral 4000K, or warm 3000K LED color temperature (CCT).

Electrical
LED driver is mounted to the die-cast aluminum housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 58W, 81W and 102W models operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C [122°F] models available in 58W and 81W models only. Crosstour MAXX luminaires maintain greater than 89% of initial light output after 72,000 hours of operation. Four half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz, 480V 60Hz, or 347V 60Hz electrical operation. 480V is compatible for use with 480V Wye systems only.

Emergency Egress
Optional integral cold weather battery emergency egress includes emergency operation test switch (available in 58W and 81W models only), an AC-ON indicator light and a premium extended rated sealed maintenance-free nickel-metal hydride battery pack. The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting.

Area and Site Pole Mounting
Optional extruded aluminum 6-1/2" arm features internal bolt guides for supplied twin support rods, allowing for easy positioning of the fixture during installation to pole. Supplied with round plate adapter plate. Optional tenon adapter fits 2-3/8" or 3-1/2" O.D. Tenon.

Finish
Crosstour MAXX is protected with a super TGIC carbon bronze or summit white polyester powder coat paint. Super TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.
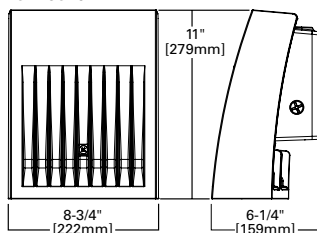
Warranty
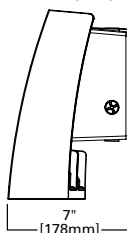Five-year warranty.

XTOR
CROSSTOUR MAXX LED

APPLICATIONS:
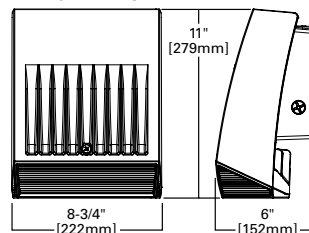**WALL / SURFACE**
INVERTED
SITE LIGHTING

DLC QPL LISTED
DLC QPL LISTED PREMIUM
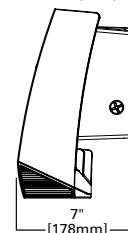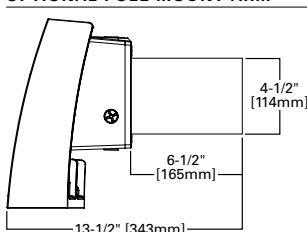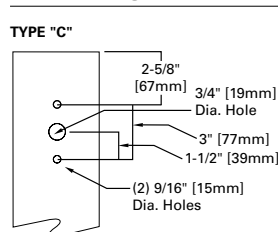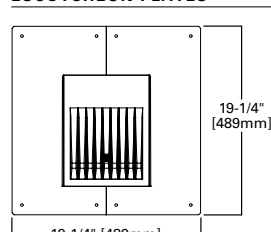
CERTIFICATION DATA
UL/cUL Wet Location Listed
LM79 / LM80 Compliant
ROHS Compliant
NOM Compliant Models
3G Vibration Tested
UL924 Listed (CBP Models)
IP66 Rated
DesignLights Consortium® Qualified*

TECHNICAL DATA
40°C Ambient Temperature
External Supply Wiring 90°C Minimum

EPA
Effective Projected Area (Sq. Ft.):
XTOR6B, XTOR8B, XTOR12B=0.54
With Pole Mount Arm=0.98

SHIPPING DATA:
Approximate Net Weight:
12-15 lbs. [5.4-6.8 kgs.]

DIMENSIONS

FULL CUTOFF
11" [279mm]
8-3/4" [222mm]
6-1/4" [159mm]

DEEP BACK BOX
7" [178mm]

REFRACTIVE LENS
11" [279mm]
8-3/4" [222mm]
6" [152mm]

DEEP BACK BOX
7" [178mm]

OPTIONAL POLE MOUNT ARM
4-1/2" [114mm]
6-1/2" [165mm]
13-1/2" [343mm]

ARM DRILLING
TYPE "C"
2-5/8" [67mm]
3/4" [19mm] Dia. Hole
3" [77mm]
1-1/2" [39mm]
(2) 9/16" [15mm] Dia. Holes

ESCUTCHEON PLATES
19-1/4" [489mm]
19-1/4" [489mm]

EATON
Powering Business Worldwide

TD514005EN
April 18, 2018 8:58 AM

*www.designlights.org

POWER AND LUMENS BY FIXTURE MODEL

58W Series						
LED Information	**XTOR6B**	**XTOR6BRL**	**XTOR6B-W**	**XTOR6BRL-W**	**XTOR6B-Y**	**XTOR6BRL-Y**
Delivered Lumens	6,129	6,225	6,038	6,133	5,611	5,826
B.U.G. Rating	B1-U0-G1	B2-U4-G3	B1-U0-G1	B2-U4-G3	B1-U0-G1	B2-U4-G3
CCT (Kelvin)	5000K	5000K	4000K	4000K	3000K	3000K
CRI (Color Rendering Index)	70	70	70	70	70	70
Power Consumption (Watts)	58W	58W	58W	58W	58W	58W
81W Series						
LED Information	**XTOR8B**	**XTOR8BRL**	**XTOR8B-W**	**XTOR8BRL-W**	**XTOR8B-Y**	**XTOR8BRL-Y**
Delivered Lumens	8,502	8,635	8,373	8,504	7,748	8,079
B.U.G. Rating	B2-U0-G1	B2-U4-G3	B2-U0-G1	B2-U4-G3	B2-U0-G1	B2-U4-G3
CCT (Kelvin)	5000K	5000K	4000K	4000K	3000K	3000K
CRI (Color Rendering Index)	70	70	70	70	70	70
Power Consumption (Watts)	81W	81W	81W	81W	81W	81W
102W Series						
LED Information	**XTOR12B**	**XTOR12BRL**	**XTOR12B-W**	**XTOR12BRL-W**	**XTOR12B-Y**	**XTOR12BRL-Y**
Delivered Lumens	12,728	13,458	12,539	13,258	11,861	12,595
B.U.G. Rating	B2-U0-G1	B2-U4-G3	B2-U0-G1	B2-U4-G3	B2-U0-G1	B2-U4-G3
CCT (Kelvin)	5000K	5000K	4000K	4000K	3000K	3000K
CRI (Color Rendering Index)	70	70	70	70	70	70
Power Consumption (Watts)	102W	102W	102W	102W	102W	102W

EGRESS Information	**XTOR6B, XTOR8B and XTOR12B Full Cutoff CBP Egress LED**	**XTOR6B, XTOR8B and XTOR12B Refractive Lens CBP Egress LED**
Delivered Lumens	509	468
B.U.G. Rating	N.A.	N.A.
CCT (Kelvin)	4000K	4000K
CRI (Color Rendering Index)	65	65
Power Consumption (Watts)	1.8W	1.8W

LUMEN MAINTENANCE

Ambient Temperature	**TM-21 Lumen Maintenance (72,000 Hours)**	**Theoretical L70 (Hours)**
XTOR6B Model		
25°C	> 90%	246,000
40°C	> 88%	217,000
50°C	> 88%	201,000
XTOR8B Model		
25°C	> 89%	219,000
40°C	> 87%	195,000
50°C	> 86%	181,000
XTOR12B Model		
25°C	> 89%	222,000
40°C	> 87%	198,000
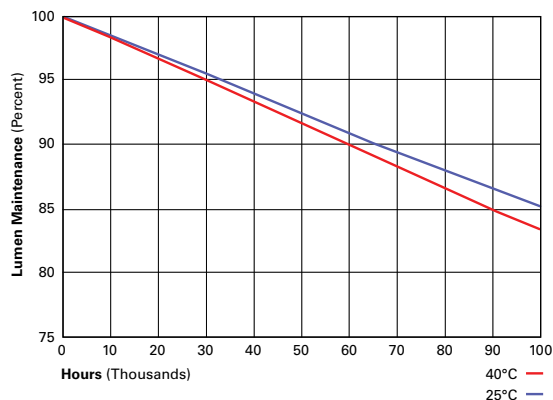
CURRENT DRAW

Voltage	Model Series				
	XTOR6B	**XTOR8B**	**XTOR12B**	**XTOR6B-CBP (Fixture/Battery)**	**XTOR8B-CBP (Fixture/Battery)**
120V	0.51	0.71	0.94	0.60/0.25	0.92/0.25
208V	0.25	0.39	0.52	- -	- -
240V	0.25	0.35	0.45	- -	- -
277V	0.22	0.31	0.39	0.36/0.21	0.50/0.21
347V	0.19	0.25	0.33		- -
480V	0.14	0.19	0.24		- -

ORDERING INFORMATION

Sample Number: XTOR6B-W-WT-PC1

Series [1]	LED Kelvin Color	Housing Color	Options (Add as Suffix)
Full Cutoff XTOR6B=58W XTOR8B=81W XTOR12B=102W **Refractive Lens** XTOR6BRL=58W XTOR8BRL=81W XTOR12BRL=102W	**[Blank]**=Bright White (Standard) 5000K **W**=Neutral, 4000K **Y**=Warm, 3000K	**[Blank]**=Carbon Bronze (Standard) **WT**=Summit White **BK**=Black **BZ**=Bronze **AP**=Grey **GM**=Graphite Metallic **DP**=Dark Platinum	**347V**=347V [2, 3, 4, 5] **480V**=480V [2, 3, 4, 5, 6] **PC1**=Photocontrol 120V [7] **PC2**=Photocontrol 208-277V [7, 8] **PMA**=Pole Mount Arm (C Drilling) with Round Adapter [3, 9] **MS-L20**=Motion Sensor for ON/OFF Operation [2, 3, 10, 11] **MS/DIM-L20**=Motion Sensor for Dimming Operation [2, 3, 10, 11, 12, 13, 14] **CBP**=Cold Weather Battery Pack [2, 3, 15, 16, 17] **HA**=50°C High Ambient [17]

Accessories (Order Separately)

WG-XTORMX=Crosstour MAXX Wire Guard **PB120V**=Field Installed 120V Photocontrol **PB277V BUTTON PC**=Field Installed 208-277V Photocontrol [8] **VA1040-XX**=Single Tenon Adapter for 3-1/2" O.D. Tenon [18] **VA1041-XX**=2@180° Tenon Adapter for 3-1/2" O.D. Tenon [18] **VA1042-XX**=3@120° Tenon Adapter for 3-1/2" O.D. Tenon [18] **VA1043-XX**=4@90° Tenon Adapter for 3-1/2" O.D. Tenon [18] **VA1044-XX**=2@90° Tenon Adapter for 3-1/2" O.D. Tenon [18] **VA1045-XX**=3@90° Tenon Adapter for 3-1/2" O.D. Tenon [18] **VA1046-XX**=2@120° Tenon Adapter for 3-1/2" O.D. Tenon [18]	**VA1033-XX**=Single Tenon Adapter for 2-3/8" O.D. Tenon [18] **VA1034-XX**=2@180° Tenon Adapter for 2-3/8" O.D. Tenon [18] **VA1035-XX**=3@120° Tenon Adapter for 2-3/8" O.D. Tenon [18] **VA1036-XX**=4@90° Tenon Adapter for 2-3/8" O.D. Tenon [18] **VA1037-XX**=2@90° Tenon Adapter for 2-3/8" O.D. Tenon [18] **VA1038-XX**=3@90° Tenon Adapter for 2-3/8" O.D. Tenon [18] **VA1039-XX**=2@120° Tenon Adapter for 2-3/8" O.D. Tenon [18] **EWP/XTORMX**=Escutcheon Wall Plate, Carbon Bronze **EWP/XTORMX-WT**=Escutcheon Wall Plate, Summit White **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor [14]

NOTES:
1. DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
2. Not available with HA option.
3. Deep back box is standard for 347V, 480V, CBP, PMA, MS-L20 and MS/DIM-L20.
4. Not available with CBP option.
5. Thru-branch wiring not available with HA option or with 347V.
6. Only for use on 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
7. Not available with MS-L20 and MS/DIM-L20 options.
8. Use PC2 with 347V or 480V option for photocontrol. Factory wired to 208-277V lead.
9. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
10. For use in downlight orientation only. Optimal coverage at mounting heights of 9'-20'.
11. 120V thru 277V only.
12. Factory set to 50% power reduction after 15-minutes of inactivity. Dimming driver included.
13. Includes integral photo sensor.
14. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff, and more. Consult your lighting representative at Eaton for more information.
15. 120V or 277V operation only.
16. Operating temperatures -20°C to 25°C.
17. Not available in XTOR12B or XTOR12BRL models.
18. Replace XX with housing color.

STOCK ORDERING INFORMATION

58W Series	81W Series	102W Series
Full Cutoff		
XTOR6B=58W, 5000K, Carbon Bronze	**XTOR8B**=81W, 5000K, Carbon Bronze	**XTOR12B**=102W, 5000K, Carbon Bronze
XTOR6B-PC1=58W, 5000K, 120V PC, Carbon Bronze	**XTOR8B-PC1**=81W, 5000K, 120V PC, Carbon Bronze	**XTOR12B-PC1**=102W, 5000K, 120V PC, Carbon Bronze
XTOR6B-WT= 58W, 5000K, Summit White	**XTOR8B-WT**=81W, 5000K, Summit White	**XTOR12B-WT**=102W, 5000K, Summit White
XTOR6B-W=58W, 4000K, Carbon Bronze	**XTOR8B-PC2**=81W, 5000K, 208-277V PC, Carbon Bronze	**XTOR12B-PC2**=102W, 5000K, 208-277V PC, Carbon Bronze
XTOR6B-PMA= 58W, 5000K, Pole Mount Arm, Carbon Bronze	**XTOR8B-PMA**=81W, 5000K, Pole Mount Arm, Carbon Bronze	**XTOR12B-PMA**=102W, 5000K, Pole Mount Arm, Carbon Bronze
XTOR6B-W-PMA=58W, 4000K, Pole Mount Arm, Carbon Bronze	**XTOR8B-W**=81W, 4000K, Carbon Bronze	**XTOR12B-W**=102W, 4000K, Carbon Bronze
XTOR6B-PC2= 58W, 5000K, 208-277V PC, Carbon Bronze	**XTOR8B-W-PC1**=81W, 4000K, 120V PC, Carbon Bronze	**XTOR12B-W-PC1**=102W, 4000K, 120V PC, Carbon Bronze
XTOR6B-W-PC2=58W, 4000K, 208-277V PC, Carbon Bronze	**XTOR8B-W-PC2**=81W, 4000K, 208-277V PC, Carbon Bronze	**XTOR12B-W-PC2**=102W, 4000K, 208-277V PC, Carbon Bronze
XTOR6B-W-PC1=58W, 4000K, 120V PC, Carbon Bronze	**XTOR8B-W-PMA**=81W,4000K, Pole Mount Arm, Carbon Bronze	**XTOR12B-W-PMA**=102W,4000K, Pole Mount Arm, Carbon Bronze
Refractive Lens		
XTOR6BRL=58W, 5000K, Refractive Lens, Carbon Bronze	**XTOR8BRL**=81W, 5000K, Refractive Lens, Carbon Bronze	**XTOR12BRL**=102W, 5000K, Refractive Lens, Carbon Bronze
XTOR6BRL-PC1=58W, 5000K, Refractive Lens, 120V PC, Carbon Bronze	**XTOR8BRL-PC1**=81W, 5000K, Refractive Lens, 120V PC, Carbon Bronze	**XTOR12BRL-PC1**=102W, 5000K, Refractive Lens, 120V PC, Carbon Bronze
XTOR6BRL-WT=58W, 5000K, Refractive Lens, Summit White	**XTOR8BRL-WT**=81W, 5000K, Refractive Lens, Summit White	**XTOR2BRL-WT**=102W, 5000K, Refractive Lens, Summit White
XTOR6BRL-W=58W, 4000K, Refractive Lens, Carbon Bronze	**XTOR8BRL-PC2**=81W, 5000K, Refractive Lens, 208-277V PC, Carbon Bronze	**XTOR12BRL-PC2**=102W, 5000K, Refractive Lens, 208-277V PC, Carbon Bronze
XTOR6BRL-PMA=58W, 5000K, Refractive Lens, Pole Mount Arm, Carbon Bronze	**XTOR8BRL-PMA**=81W, 5000K, Refractive Lens, Pole Mount Arm, Carbon Bronze	**XTOR12BRL-PMA**=102W, 5000K, Refractive Lens, Pole Mount Arm, Carbon Bronze
XTOR6BRL-W-PMA=58W,4000K, Refractive Lens, Pole Mount Arm, Carbon Bronze	**XTOR8BRL-W**=81W, 4000K, Refractive Lens, Carbon Bronze	**XTOR12BRL-W**=102W, 4000K, Refractive Lens, Carbon Bronze
XTOR6BRL-PC2=58W, 5000K, Refractive Lens, 208-277V PC, Carbon Bronze	**XTOR8BRL-W-PC1**=81W, 4000K, Refractive Lens, 120V PC, Carbon Bronze	**XTOR12BRL-W-PC1**=102W, 4000K, Refractive Lens, 120V PC, Carbon Bronze
XTOR6BRL-W-PC2=58W, 4000K, Refractive Lens, 208-277V PC, Carbon Bronze	**XTOR8BRL-W-PC2**=81W, 4000K, Refractive Lens, 208-277V PC, Carbon Bronze	**XTOR12BRL-W-PC2**=102W, 4000K, Refractive Lens, 208-277V PC, Carbon Bronze
XTOR6BRL-W-PC1=58W, 4000K, Refractive Lens, 120V PC, Carbon Bronze	**XTOR8BRL-W-PMA**=81W,4000K, Refractive Lens, Pole Mount Arm, Carbon Bronze	**XTOR12BRL-W-PMA**=102W,4000K, Refractive Lens, Pole Mount Arm, Carbon Bronze

EVOLVE

CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

ECLS Soffit
LED Canopy Light

The Evolve® Canopy LED Soffit (ECLS) offers energy efficiency and quality of light in a sleek low-profile look and style. The ECLS features a diffused aperture which spreads the source lumens for even light distribution and low glare. To be used for sealed deck applications only (enclosed canopy or soffit).

Construction

Housing:	Aluminum die cast enclosure. Integral heat sink for maximum heat transfer
Lens:	Impact resistant tempered glass
Paint:	Corrosion resistant polyester powder paint, minimum 2.0 mil thickness Standard = Black, Dark Bronze Gray, White (RAL & custom colors available)
Weight:	10 lbs (4.5 kg) - 12.5 lbs (5.7 kg)

Optical System

Lumens:	3,600 - 7,100
Distribution:	Symmetric Medium
Efficacy:	119 - 138 LPW
CCT:	3000K, 4000K, 5000K
CRI:	≥70

Electrical

Input Voltage:	120-277V & 347V
Input Frequency:	50/60Hz
Power Factor:	>90% at rated watts
Total Harmonic Distortion:	<20% at rated watts
Surge Protection:	Standard Surge 6kV/3kA

*Per ANSI C136.2-

Warranty

5 Year (Standard)

Lumen Maintenance

Projected Lxx per IES TM-21-11 at

LUMEN CODES	LXX(10K) @ HOURS		
	25,000 HR	50,000 HR	60,000 HR
T5	L96	L92	L91
A5	L95	L93	L92
B5	L95	L93	L92

Note: Projected Lxx based on LM80 (≥ 10,000 hour testing). Accepted Industry tolerances apply to initial luminous flux and lumen maintenance measurements.

Luminaire Ambient Temperature Factor

AMBIENT TEMP (ºC)	INITIAL FLUX FACTOR	AMBIENT TEMP (ºC)	INITIAL FLUX FACTOR
10	1.02	30	0.99
20	1.01	40	0.98
25	1.00	50	0.97

Ratings

Operating Temperature:	-40ºC to 50ºC
Vibration:	1.5G per Per ANSI C136.31-2010:
LM-79:	Testing in accordance with IESNA Standards

Controls

Dimming:	Standard - 0-10V
Sensors:	Motion with Integrated Photoelectric control, Daintree Compatible

Not all product variations listed on this page are DLC qualified. Visit www.designlights.org/search to confirm qualifications.

Current

EVOLVE

ECLS Soffit
LED Canopy Light

CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

Ordering Information

ECLS 01   SM   7

_ _ _ _ _ _   _   _ _   _ _   _   _ _   _   _   _ _   _ _ _ _   _ _ _ _

PROD. ID	GEN	VOLTAGE	OPTIC CODE	DISTRIBUTION³	CRI (MIN)	CCT	DIMMING	CONTROLS	MOUNTING	COLOR	OPTIONS
E = Evole	01	0 = 120-277V	T5 = 3,700 lm	SM = Symmetric Medium	7 = 70	30 = 3000K	1 = None Only Controls '1' available	1 = None	JM = J-Box Mount	BLCK = Black	SC = Side Conduit Holes
C = Canopy		D = 347V¹	A5 = 5,400 lm			40 = 4000K	A = Wired to Control	A = Motion Sensor IR Program²	PM = Pendant Mount	DKBZ = Dark Bronze	XXX = Special Options
LS = Soffit			B5 = 7,100 lm			50 = 5000K	D = External Wired 0-10V/Leads Only Controls '1' available	B = Daintree Motion Sensor²	RM = Reccessed Mount	GRAY = Gray	Y = Coastal Finish³
									SM = Surface Mount		
									SB = Surface Mount w/ Beauty Plate	WHTE = White	

¹ **Not Available with Optical Code T5**
² **Requires Dimming Option A**
³ **Reccomended for installations within 750 feet from coast. Lead time varies, check with factory.**

OPTICAL CODE	DIST CODE	TYPICAL LUMENS			TYPICAL SYSTEM WATTAGE	
		3000K	4000K	5000K	120-277V	347-480V
T5		3600	3700	3700	29	N/A
A5	SM	5200	5400	5400	39	43
B5		6900	7100	7100	54	58

For additional information on ECLS IES files, please click the following link: **ECLS IES Files**

Current

LED.com

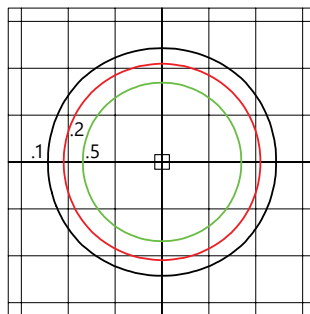Page **2** of **7**
(Rev 06/28/23)
OLP3136_R05

E V O L V E

ECLS Soffit
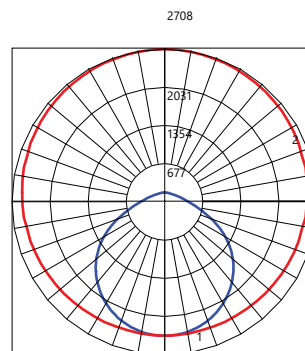### LED Canopy Light

CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

ECLS - Symmetric Medium

7,100 lumens, 5000K
ECLS01_B5SM750_.IES

2708

- Mounting Height at 15'
- Initial Footcandle at Grade

— Vertical plane through horizontal angle of Max. Cd at 90°

— Horizontal cone through vertical angle of Max. Cd at 1°

Current ⊙

LED.com

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Page **3** of **7**
(Rev 06/28/23)
OLP3136_R05

EVOLVE

ECLS Soffit
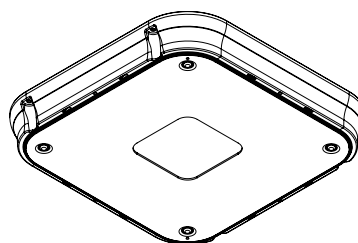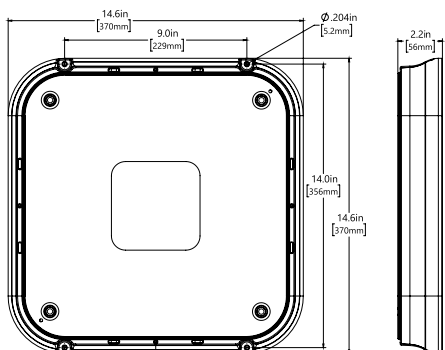LED Canopy Light

CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

Surface Mount: SM
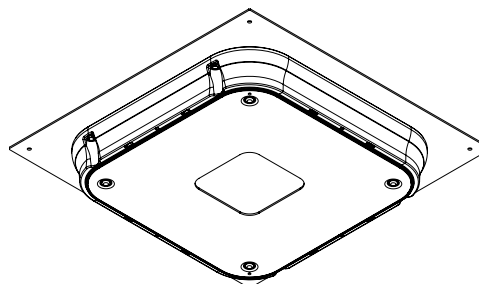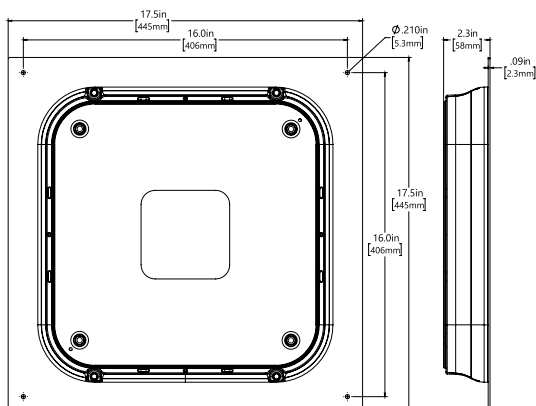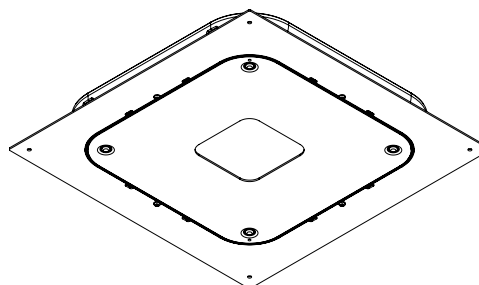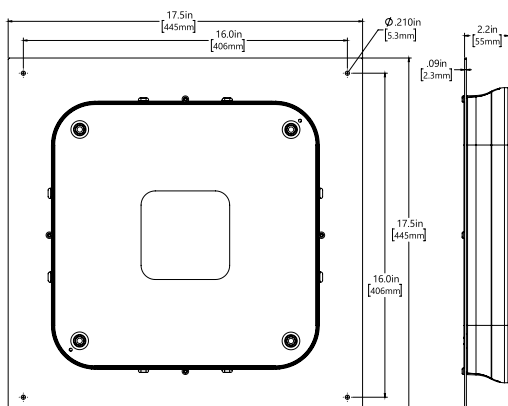
TOTAL WEIGHT (LBS.): 10.1

14.6in [370mm]
9.0in [229mm]
Ø .204in [5.2mm]
2.2in [56mm]
14.0in [356mm]
14.6in [370mm]

Surface Mount with Beauty Plate: SB

TOTAL WEIGHT (LBS.): 10.7

17.5in [445mm]
16.0in [406mm]
Ø .210in [5.3mm]
2.3in [58mm]
.09in [2.3mm]
17.5in [445mm]
16.0in [406mm]

Recessed Mount: RM

TOTAL WEIGHT (LBS.): 12.4

17.5in [445mm]
16.0in [406mm]
Ø .210in [5.3mm]
2.2in [55mm]
.09in [2.3mm]
17.5in [445mm]
16.0in [406mm]

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Page **4** of **7**
(Rev 06/28/23)
OLP3136_R05

EVOLVE

ECLS Soffit
LED Canopy Light
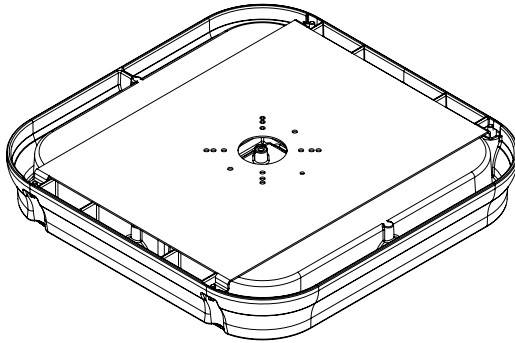
CUSTOMER NAME _____

PROJECT NAME _____
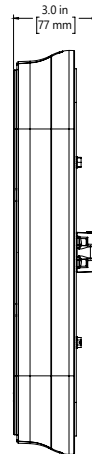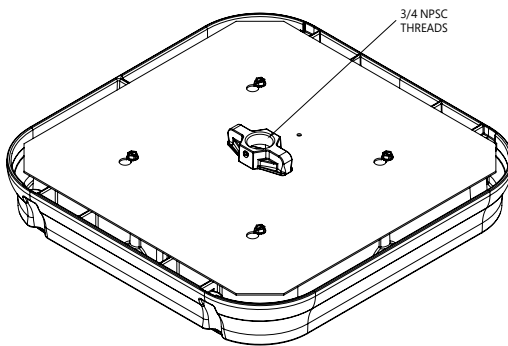
DATE _____ TYPE _____

CATALOG NUMBER _____

J-Box Mount (JM) for 3" or 4" J-box
Total Weight (lbs.): 11.1

Pendant Mount (PM) *for rigid conduit only
Total Weight (lbs.): 11.5

3/4 NPSC THREADS

3.0 in [77 mm]

Side Conduit Holes: SC
Total Weight (lbs.): XX
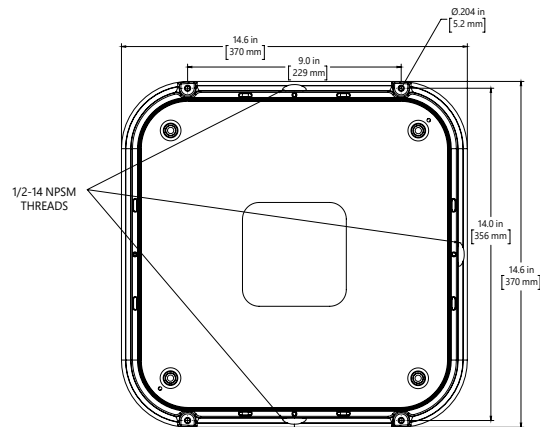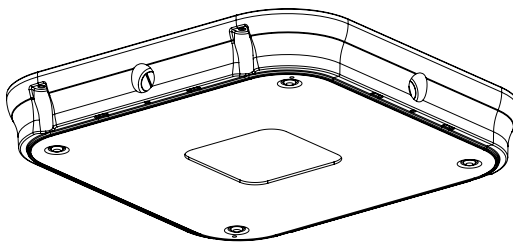
Ø.204 in [5.2 mm]

14.6 in [370 mm]

9.0 in [229 mm]

1/2-14 NPSM THREADS

14.0 in [356 mm]

14.6 in [370 mm]

(Rev 06/28/23)

OLP3136_R05

EVOLVE

ECLS Soffit
LED Canopy Light

CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

A Motion Sensing Option – Wattstopper: Sensor FSP-211, Lens FSP-L2

Recommended Mounting Height:	8-25'
Coverage Radius:	15-20' (4.6-6.1 m)
Lateral Coverage	360°
Default Settings:	
Output:	Occupied – 100% / Unoccupied – 50%
PE Sensor:	Enabled
Ramp/Fade:	5 Minutes/5 Minutes
	Adds < 1W to fixture power rating
	Field programmable using FSIR-100 hand held programmer

3.3 in [83mm]

B Motion Sensing Option – Daintree: WHS100-BM

Recommended Mounting Height:	8-25'
Coverage Radius:	15-20' (4.6-6.1 m)
Lateral Coverage	360°
Default Settings:	
Output:	Occupied – 100%/Unoccupied – 50%
PE Sensor:	Enabled
Ramp/Fade:	5 Minutes/5 Minutes
	Adds < 1W to fixture power rating
	Requires Daintree Enterprise and wide area control (WAC)

4.1 in [104mm]
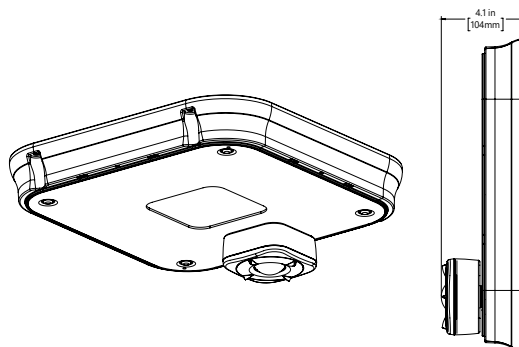
Approximate Sensor Pattern for A & B Option

• Canopy Fixture 15 ft. Mounting Height

EVOLVE

ECLS Soffit
LED Canopy Light

CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____
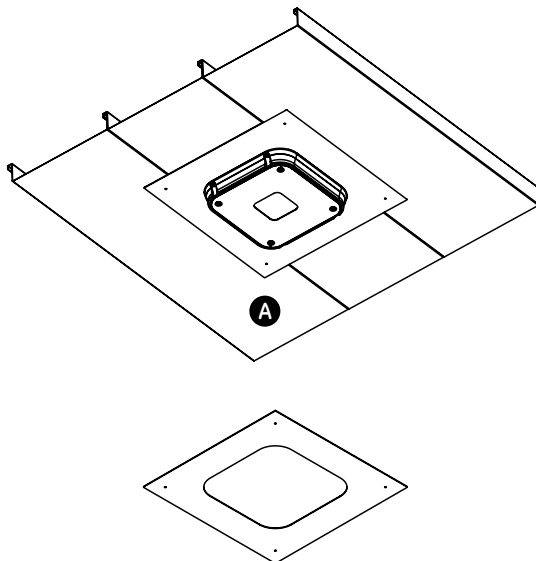
mounting

- J-Box
- Pendant Mount
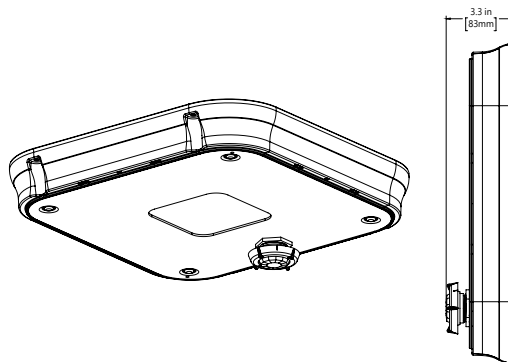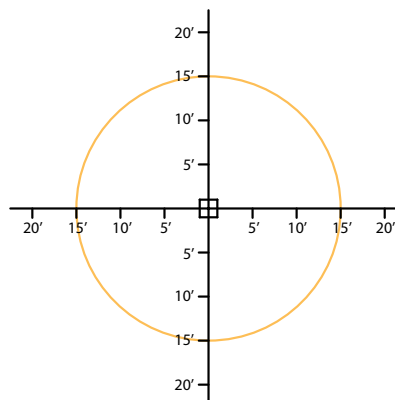- Surface Mount
- Surface Mount with 17.5" x 17.5 Beauty Plate
- Reccessed Mount with 17.5" x 17.5 Mounting Plate
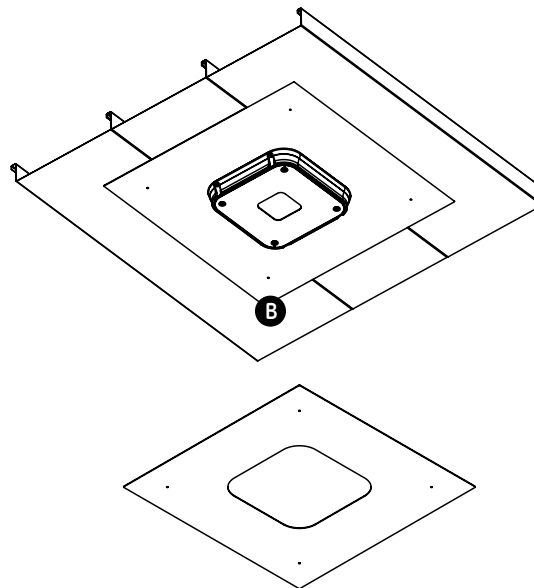
Beauty Plates

- 24" & 32" Escutcheon plates designed to cover unsighltly canopy ceilings

PRODUCT	SERIES	DESCRIPTION	COLOR
ECL	E = Escutcheon Plate	1 = 24" x 24" ECLS	BLCK = Black
		2 = 32" x 32" ECLS	DKBZ = Dark Bronze
		3 = 24" x 24" ECLP	WHTE = White
		4 = 32" x 32" ECLP	

Submitting Agency:

FSG — lighting > electrical > energy technology > signs
FACILITY SOLUTIONS GROUP
214-351-6266

Description: 9004-W2-RW-LED3090-W-BK-L1-UNV
Project: JPMC WAUWATOSA
Notes:

Type:
W1

Lumiere

DESCRIPTION

Lanterra 9004-W1 (Up or Down) and 9004-W2 (Up and Down) are 4.25" O.D., line voltage cylinder fixtures with dimmable LED. The luminaire comes in various mountings, surface mount with integral driver in the housing, remote driver mount with round and square wall plates and square wall integral driver, all of which can be mounted over standard 4 inch j-box. The luminaire also comes with various field replaceable optics. It also comes with various lens, louvers and colors or dichroic filters, which can combine up to two at once to create multiple lighting effects. The fixture may be used indoors or outdoors and carries IP66 rating.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Material
Housing, hood and mounting stem are precision-machined from corrosion resistant billet stock 6061-T6 aluminum.

Finish
Fixtures constructed from 6061-T6 aluminum are double protected by an ROHS complaint chemical film undercoating and polyester powder coat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available.

Hood
Hood is removable and accepts up to two internal accessories at once (lenses, louvers and filters) to achieve multiple lighting effects. Weep holes prevents water and mineral stains from collecting on the lens, even in the straight up position. The flush lens design reduces fixture length, minimizes debris collection and prevents water and mineral stains from collecting on the lens.

Gasket
Housing and hood are sealed with a high temperature silicone O-ring gasket to prevent water intrusion.

Lens
Tempered glass lens, factory sealed with high temperature silicone O-ring to prevent water intrusion and breakage due to thermal stock.

Hardware
Stainless steel hardware is standard to provide maximum corrosion resistance.

Electrical
Long life LED system coupled with electronic driver (120-277V/50-60Hz) is compatible with TRIAC (Trailing Edge), ELV (Forward phase) and 0-10V dimming to deliver optical performance. Light can be dimmed from 100-1% while maintaining constant CCT. It will operate in -30°C to 50°C unless noted otherwise. The driver incorporates surge protection. LED's are available in 2700K, 3000K, 3500K at 90CRI and 97CRI, 4000K at 80CRI and 97CRI, 5000K at 80CRI and are

industry leading high output with 87% lumen maintenance at 60,000hrs.

Compliance
Components are UL recognized and luminaires are cULus listed for 50˚C ambient environments unless noted otherwise, wet location listed, and ROHS compliant. IP66 Rated. DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.

Warranty
Lumiere warrants the Lanterra series of fixtures against defects in material and workmanship for five (5) years. Auxiliary equipment such as LED drivers carries the original manufacturer's warranty.

Lanterra 9004

**LED
INTERIOR / EXTERIOR
CYLINDER FLOOD LIGHT
CERTIFICATION DATA
cULus - 1598
Wet Location Listed - IP66
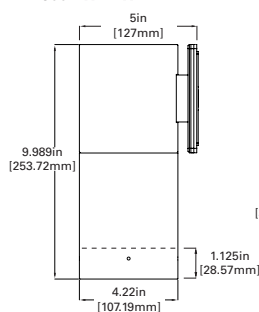LM79/LM80 Compliant
ROHS Compliant
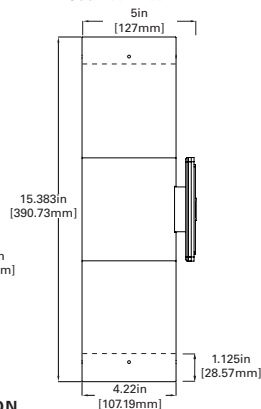10W LED, L70/102,000@25° Celcius
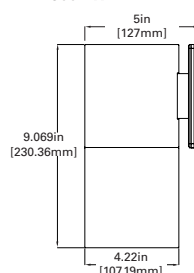20W LED, L70/102,000@25° Celcius
30W LED, L70/102,000@25° Celcius**

DIMENSIONS

9004-W1-RW
5in [127mm]
9.989in [253.72mm]
1.125in [28.57mm]
4.22in [107.19mm]

9004-W2-RW
5in [127mm]
15.383in [390.73mm]
1.125in [28.57mm]
4.22in [107.19mm]

9004-W1-FL
5in [127mm]
9.069in [230.36mm]
4.22in [107.19mm]

9004-W2-FL
5in [127mm]
13.543in [344mm]
4.22in [107.19mm]
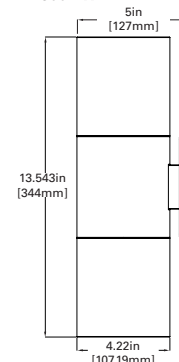
ORDERING INFORMATION

SERIES	DIRECTION	HOOD	LED CCT & CRI	FIELD REPLACEABLE OPTIC 1	FIELD REPLACEABLE OPTIC 2 [1]	FINISH	LIGHT LEVEL	VOLTAGE	MOUNTING	OPTIONS
9004	W1 Up or Down	RW Standard-Recessed Lens with weep holes - Outdoor	**Standard CRI**	S Spot	S Spot	**Standard Paint Finish**	L1 Light Level 1 (10W)	UNV 120-277V	Surface Mount - Wall, Ceiling, Ground	SVPD2[4] Standalone integral sensor
	W2[5] Up and Down		LED2790 - 2700K, 90 CRI	M Medium	M Medium	BK Black	L2 Light Level 2 (20W)		RSM Round Surface Mount- mounts directly to junction box	
			LED 3090 - 3000K, 90 CRI	F Flood	F Flood	BZ Bronze	L3 Light Level 3 (30W)		Thermal Limitations (unless otherwise noted 50C)	
		RI Recessed Lens with no weep holes - Indoor	LED 3590 - 3500K, 90 CRI	W Wide Flood	W Wide Flood	CS City Silver			9004-W1-xxx-L3-xxx-RSM (45C)	
			LED 4080 - 4000K, 80 CRI			WT White			9004-W2-xxx-L3-xxx-RSM (35C)	
			LED 5080 - 5000K, 80 CRI						9004-W2-xxx-LC2-xxx-RSM (40C)	
		FL Flush lens hood	**Premium CRI**						Remote Driver Housing	
			LED 2797 - 2700K, 97 CRI						WRR[6] Remote Driver Housing - Round Wall Plate	
			LED 3097 - 3000K, 97 CRI						WRS[6] Remote Driver Housing - Square Wall Plate	
			LED 3597 - 3500K, 97 CRI						Thermal Limitations (unless otherwise noted 50C)	
			LED 4097 - 4000K, 97 CRI						9004-W1-xxx-L3-xxx-WRx (45C)	
									9004-W2-xxx-L3-xxx-WRx (35C)	
									9004-W2-xxx-LC2-xxx-WRx (40C)	
									Integral Driver Mount	
									WIS[2,3] Wall Integral Driver Plate	
									Thermal Limitations (unless otherwise noted 45C)	
									9004-(W1,W2)-xx-L1-xx-WIS (50C)	

Notes: 1. Only available for double head option (W2)
2. W2 doubles input wattage listed
3. 9004-W2 not available in L2, L3
4. Only available for Single head, Up or down (W1) with RSM only
5. W2 doubles input wattage listed
6. Remote Driver distance up to 60', For L3 (30W) remote distance up to 15'

Submitting Agency:

lighting > electrical > energy
technology > signs
FACILITY SOLUTIONS GROUP
214-351-6266

Description: **9004-W2-RW-LED3090-W-BK-L1-UNV**
Project: **JPMC WAUWATOSA**
Notes:

Type:
W1

LANTERRA 9004

ACCESSORIES - ORDER SEPARATELY

ACCESSORIES					OPTICS	
ISHH01LUM	Programming Remote for sensor	**Filters**		**Lens**	LLR-S-3-4	15° Spot
ISHH02LUM	Personal Control Remote for sensor	F71-4 Peach Dichroic	LSL-4 Linear Spread Lens	**Louver**	LLR-M-3-4	25° Medium
		F72-4 Amber Dichroic	DIF-4 Diffused Lens	LVR-4 45° Hex Cell Louver	LLR-F-3-4	36° Flood
		F73-4 Green Dichroic	OSL-4 Overall Spread Lens		LLR-W-3-4	60° Wide Flood
		F74-4 Medium Blue			LLR-K-3-4	Spot, Medium, Flood, Wide Flood Optic Kit
		F75-4 Yellow Dichroic				
		F76-4 Red Dichroic				
		F77-4 Dark Blue Dichroic				
		F78-4 Light Blue Dichroic				
		F79-4 Neutral Density Dichroic				
		F80-4 Magenta Dichroic				
		F22-4 Red Color				
		F33-4 Blue Color				
		F44-4 Green Color				
		F55-4 Yellow Color				
		F66-4 Mercury Color				

MOUNTINGS

ROUND SURFACE MOUNT (RSM)

RSM-W1 (Up or down)
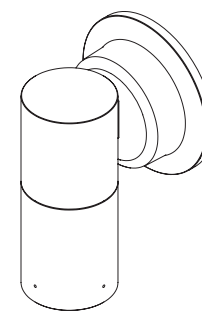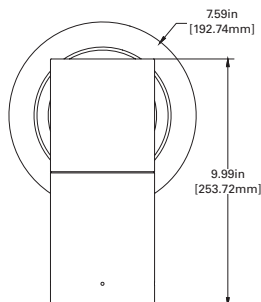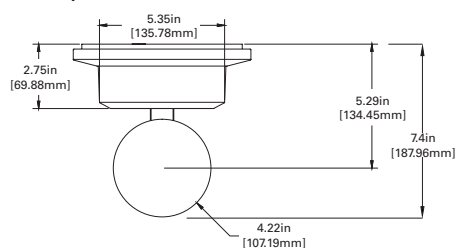
TOP VIEW   FRONT VIEW   ISO VIEW

ROUND SURFACE MOUNT (RSM)

RSM-W2 (Up and down)
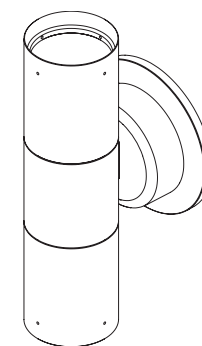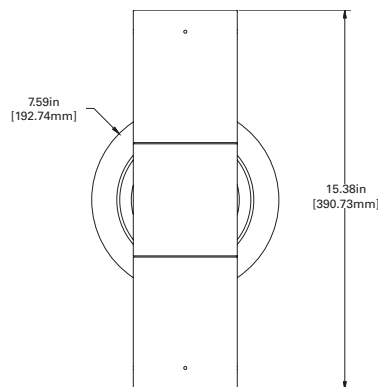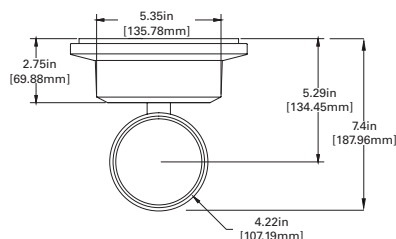
TOP VIEW   FRONT VIEW   ISO VIEW

WALL INTEGRAL DRIVER PLATE (WIS)

WIS-W1 (Up or down)
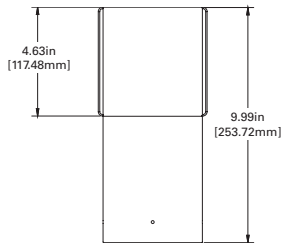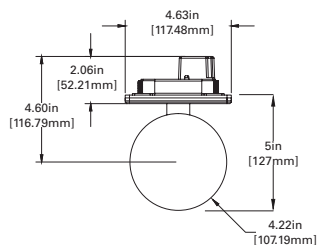
TOP VIEW   FRONT VIEW   ISO VIEW

Submitting Agency:

lighting > electrical > energy
technology > signs
FACILITY SOLUTIONS GROUP
214-351-6266

Description: **9004-W2-RW-LED3090-W-BK-L1-UNV**
Project: **JPMC WAUWATOSA**
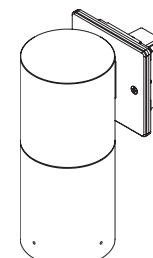**Notes:**

Type:
W1

LANTERRA 9004

WALL INTEGRAL DRIVER PLATE (WIS)

WIS-W2 (Up and down)
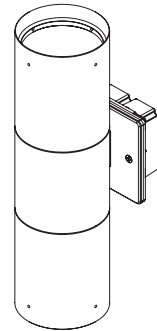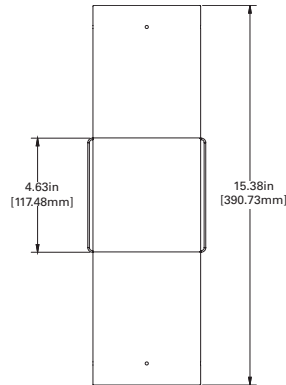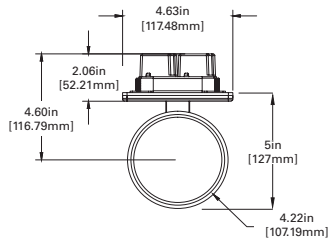
TOP VIEW	FRONT VIEW	ISO VIEW

REMOTE DRIVER HOUSING ROUND WALL (WRR)

WRR-W1 (Up or down), as shown
WRS-W1 (Square option also available)
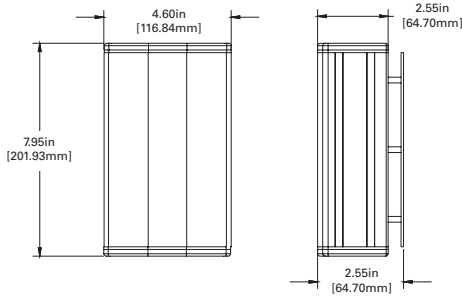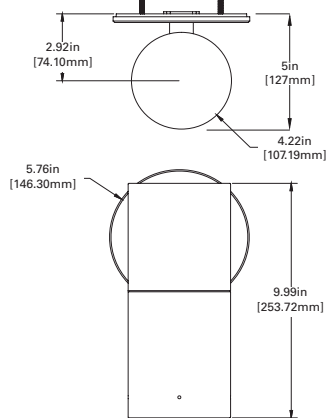
TOP VIEW

Remote Driver distance up to 60',
For L3 remote distance up to 15'
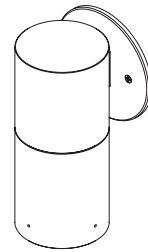
FRONT VIEW	REMOTE BOX	ISO VIEW

REMOTE DRIVER HOUSING ROUND WALL (WRR)

WRR-W2 (Up and down)
WRS-W2 (Square option also available)
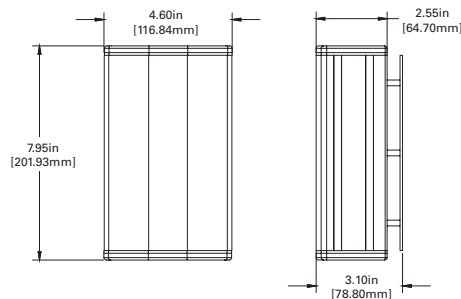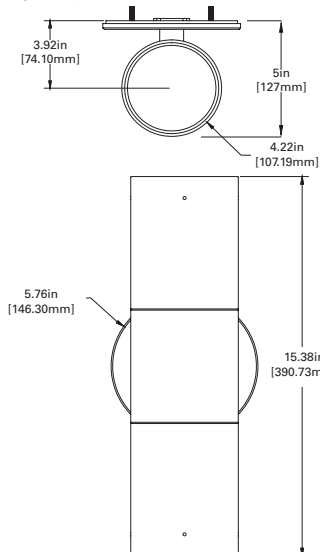
TOP VIEW

Remote Driver distance up to 60',
For L3 remote distance up to 15'
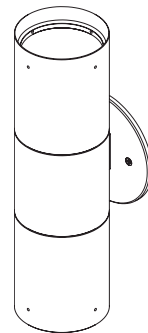
FRONT VIEW	REMOTE BOX	ISO VIEW

Submitting Agency:

FSG
lighting > electrical > energy
technology > signs
FACILITY SOLUTIONS GROUP
214-351-6266

Description: 9004-W2-RW-LED3090-W-BK-L1-UNV
Project: JPMC WAUWATOSA
Notes:

Type:
W1

LANTERRA 9004

PHOTOMETRICS

### Row 1

Test Number P29496
Lumcat 9004-[W1]-X-FL-LED4080-S-BK-L3-UNV
Lumens 2801 Lm
Watts 28.6 W
LPW 97.9 Lm/W
CCT 4000K
SC (0/90/45) 0.27 / 0.27 / 0.27
Beam Angle 15.9°

COLOR METRIC SUMMARY

TM-30-15	Rf = 82.5
	Rg = 94.3
CRI/CIE	Ra = 83.1
	R9 = 11.4

2000K 3000K 4000K 5000K

15°

CANDLE POWER DISTRIBUTION

0
4,398
8,795
13,193
17,590

CONE OF LIGHT
Horizontal Illuminance on Floor

MH	FC	L	W
2'	4397.5	0.4	0.4
4'	1099.4	1	1
6'	488.6	1.6	1.6
8'	274.8	2	2
10'	175.9	2.6	2.6
15'	78.2	4	4
20'	44	5.4	5.4
30'	19.5	8.2	8.2
40'	11	10.8	10.8

CANDELA TABLE

Angle	0-deg
0	17590
5	13640
10	5616
15	2329
20	1555
30	1057
40	161
50	11
60	4
70	1
80	0
90	0

Row 2

Test Number 29497
Lumcat 9004-[W1]-X-FL-LED4080-M-BK-L3-UNV
Lumens 2826 Lm
Watts 28.6 W
LPW 98.8 Lm/W
CCT 4000K
SC (0/90/45) 0.43 / 0.43 / 0.44
Beam Angle 25.5°

COLOR METRIC SUMMARY
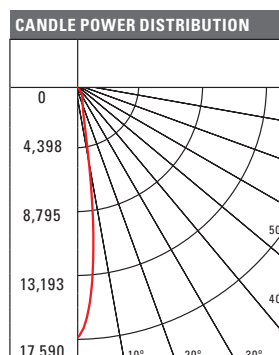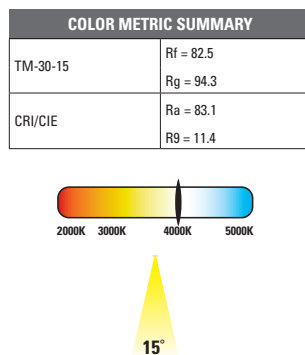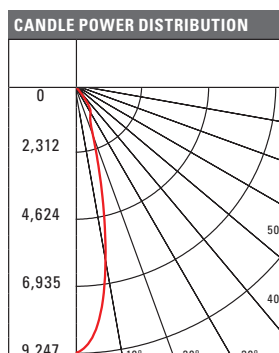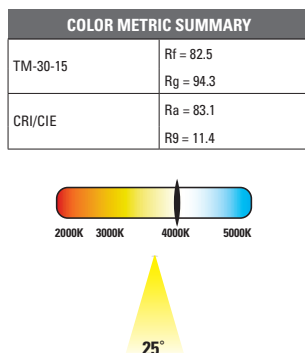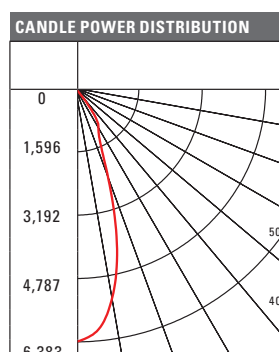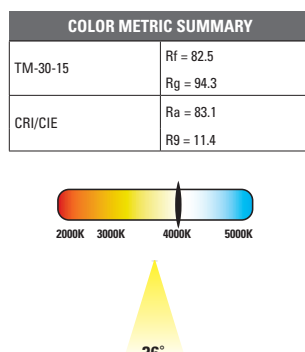
TM-30-15	Rf = 82.5
	Rg = 94.3
CRI/CIE	Ra = 83.1
	R9 = 11.4

2000K 3000K 4000K 5000K

25°

CANDLE POWER DISTRIBUTION

0
2,312
4,624
6,935
9,247

CONE OF LIGHT
Horizontal Illuminance on Floor

MH	FC	L	W
2'	2311.8	0.8	0.8
4'	577.9	1.6	1.6
6'	256.9	2.4	2.4
8'	144.5	3.4	3.4
10'	92.5	4.2	4.2
15'	41.1	6.4	6.4
20'	23.1	8.6	8.6
30'	10.3	12.8	12.8
40'	5.8	17.2	17.2

CANDELA TABLE

Angle	0-deg
0	9247
5	8453
10	6140
15	3506
20	1860
30	1098
40	170
50	13
60	4
70	1
80	0
90	0

Row 3

Test Number P29498
Lumcat 9004-[W1]-X-FL-LED4080-F-BK-L3-UNV
Lumens 2871 Lm
Watts 28.5 W
LPW 100.7 Lm/W
CCT 4000K
SC (0/90/45) 0.58 / 0.58 / 0.56
Beam Angle 35.1°

COLOR METRIC SUMMARY

TM-30-15	Rf = 82.5
	Rg = 94.3
CRI/CIE	Ra = 83.1
	R9 = 11.4

2000K 3000K 4000K 5000K

36°

CANDLE POWER DISTRIBUTION

0
1,596
3,192
4,787
6,383

CONE OF LIGHT
Horizontal Illuminance on Floor

MH	FC	L	W
2'	1595.8	1	1
4'	398.9	2.2	2.2
6'	177.3	3.4	3.4
8'	99.7	4.6	4.6
10'	63.8	5.8	5.8
15'	28.4	8.6	8.6
20'	16	11.6	11.6
30'	7.1	17.4	17.4
40'	4	23.2	23.2

CANDELA TABLE

Angle	0-deg
0	6383
5	6141
10	5345
15	4027
20	2423
30	1153
40	178
50	6
60	4
70	1
80	0
90	0

Row 4

Test Number P29499
Lumcat 9004-[W1]-X-FL-LED4080-W-BK-L3-UNV
Lumens 2790 Lm
Watts 28.5 W
LPW 97.9 Lm/W
CCT 4000K
SC (0/90/45) 0.86 / 0.86 / 0.91
Beam Angle 58.5°

COLOR METRIC SUMMARY

TM-30-15	Rf = 82.5
	Rg = 94.3
CRI/CIE	Ra = 83.1
	R9 = 11.4

2000K 3000K 4000K 5000K

60°

CANDLEPOWER DISTRIBUTION

0
805
1,610
2,415
3,220
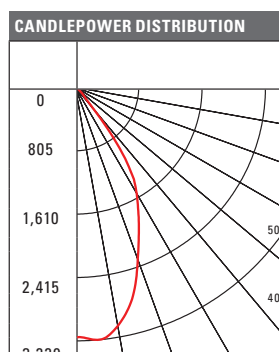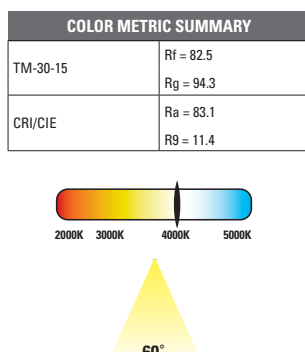
CONE OF LIGHT
Horizontal Illuminance on Floor

MH	FC	L	W
2'	796.9	1.6	1.6
4'	199.2	3.4	3.4
6'	88.5	5	5
8'	49.8	6.8	6.8
10'	31.9	8.4	8.4
15'	14.2	12.8	12.8
20'	8	17	17
30'	3.5	25.6	25.6
40'	2	34.2	34.2

CANDELA TABLE

Angle	0-deg
0	3173
5	3220
10	3082
15	2784
20	2321
30	1560
40	366
50	95
60	25
70	3
80	0
90	0

Multiplier Tables

CCT/CRI	LED2790	LED3090	LED3590	LED4080	LED5080	LED2797	LED3097	LED3597	LED4097
FC Multiplier	0.754	0.798	0.808	1.000	1.039	0.699	0.706	0.801	0.793

Light Level	L1	L2	L3
FC Multiplier	0.418	0.772	1.000

Note: Photometric tables show lumen output for W1 only. For W2 (Up and Down) option, uplight and downlight both match lumen output as W1.

LANTERRA 9004

LUMEN TABLE

		9004-[W1] Regressed Hood - Black								
		L1 - 10 W			L2 - 20 W			L3 - 30W		
		CBCP	Lumens	LPW	CBCP	Lumens	LPW	CBCP	Lumens	LPW
Spot 15°	LED2790	5584	783	79.5	10310	1445	71.9	13357	1872	65.7
	LED3090	5907	828	84.1	10906	1529	76.1	14130	1981	69.5
	LED3590	5983	839	85.1	11047	1549	77.0	14311	2006	70.4
	LED4080	7401	1038	105.3	13666	1916	95.3	17705	2482	87.1
	LED5080	7689	1078	109.4	14197	1990	99.0	18393	2578	90.5
	LED2797	5175	726	73.7	9556	1340	66.6	12380	1736	60.9
	LED3097	5224	732	74.4	9646	1352	67.3	12497	1752	61.5
	LED3597	5926	831	84.3	10941	1534	76.3	14175	1987	69.7
	LED4097	5869	823	83.5	10836	1519	75.6	14038	1968	69.1
Medium Flood 25°	LED2790	2907	781	79.2	5368	1441	71.7	6954	1867	65.5
	LED3090	3075	826	83.8	5678	1525	75.8	7357	1975	69.3
	LED3590	3115	836	84.9	5751	1544	76.8	7451	2001	70.2
	LED4080	3853	1035	105.0	7115	1910	95.0	9218	2475	86.8
	LED5080	4003	1075	109.1	7391	1984	98.7	9576	2571	90.2
	LED2797	2695	723	73.4	4975	1336	66.5	6446	1731	60.7
	LED3097	2720	730	74.1	5022	1348	67.1	6505	1747	61.3
	LED3597	3085	828	84.1	5696	1529	76.1	7380	1981	69.5
	LED4097	3055	820	83.3	5642	1515	75.4	7309	1962	68.9
Flood 36°	LED2790	2006	792	80.4	3704	1463	72.8	4799	1895	66.3
	LED3090	2122	838	85.1	3918	1547	77.0	5076	2004	70.1
	LED3590	2149	849	86.2	3969	1567	78.0	5142	2030	71.0
	LED4080	2659	1050	106.6	4910	1939	96.4	6361	2512	87.8
	LED5080	2762	1091	110.7	5101	2014	100.2	6608	2609	91.2
	LED2797	1859	734	74.5	3233	1356	67.4	4448	1756	61.4
	LED3097	1877	741	75.2	3466	1368	68.1	4490	1773	62.0
	LED3597	2129	841	85.3	3931	1552	77.2	5093	2011	70.3
	LED4097	2108	832	84.5	3893	1537	76.5	5044	1991	69.6
Wide Flood 60°	LED2790	1012	753	76.4	1869	1390	69.2	2422	1801	63.0
	LED3090	1071	796	80.8	1977	1470	73.2	2562	1905	66.6
	LED3590	1085	807	81.9	2003	1489	74.1	2595	1929	67.5
	LED4080	1342	998	101.3	2478	1842	91.7	3210	2387	83.5
	LED5080	1394	1037	105.2	2574	1914	95.2	3335	2480	86.7
	LED2797	938	698	70.8	1733	1288	64.1	2245	1669	58.4
	LED3097	947	704	71.5	1749	1300	64.7	2266	1685	58.9
	LED3597	1074	799	81.1	1984	1475	73.4	2570	1911	66.8
	LED4097	1064	791	80.3	1965	1461	72.7	2545	1893	66.2

TM30 DATA

	CCT/CRI	Rf	Rg	Ra	R9
9004	2790	90.9	98.9	91.7	58.3
	3090	90.8	99.1	92.5	62.6
	3590	90.6	100.4	92.7	67.5
	4080	82.5	94.3	83.1	11.4
	5080	81.6	94.1	82	6
	2797	94.9	100	98.1	86.9
	3097	94	100.3	97.8	88.9
	3597	92.9	99.3	97.2	89.1
	4097	91.5	98.7	95.4	84

LUMEN MAINTENANCE

Ambient Tempurature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C, 40°C, 50°C	> 87%	> 102,000

POWER TABLE

Number of Heads	Light Level	Input Current (A) at 120 VAC	Input Current (A) at 277 VAC	Input Power (W)
W1	L1	0.08	0.03	10
	L2	0.177	0.088	20.93
	L3	0.252	0.118	30.02
	LC1	0.1	0.085	11.4
	LC2	0.183	0.088	21.44
W2	L1	0.16	0.06	20
	L2	0.354	0.176	41.86
	L3	0.504	0.236	60.04
	LC1	0.2	0.17	22.8
	LC2	0.366	0.176	42.88

F·T·N Powering Business Worldwide

Specifications and dimensions subject to change without notice.

LANTERRA 9004

INTEGRATED SENSOR - SVPD2

The Lanterra Cylinder 9004 with Integrated Sensor technology provides automatic energy savings without sacrificing performance. Traditionally, these types of energy savings required coordination between the luminaire and a lighting control system. The Lanterra Cylinder 9004 delivers superior lighting with integrated PIR occupancy sensing and daylighting controls.

Capture the benefits of traditional lighting controls, without complicated circuit planning or special wiring. The Lanterra Cylinder 9004 delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

The SVPD2 sensor is configured for outdoor use, so the integral daylight sensor will enable the luminaire to automatically adjust to daylight conditions by turning off when sufficient sunlight is present. Consult factory for indoor configuration.

Occupied light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH01LUM). While the default unoccupied level is OFF, a lower light level can be saved instead using the programming remote. The integrated sensor personal remote (Catalog Number: ISHH02LUM) provides code compliant manual raise, lower, ON, OFF control.
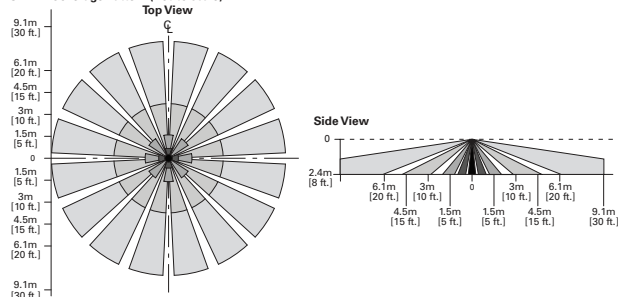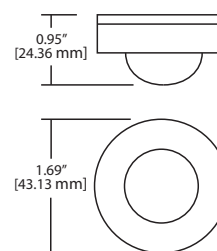
The Lanterra Cylinder 9004 with Integrated Sensor is easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.

HOW IT WORKS

• As the user enters the space controlled by the integral sensor, the lighting turns ON to the occupied light level.

• Lighting will remain at the occupied level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).

• If the space remains unoccupied for half of the timeout period, the lighting will automatically reduce to the Energy Saver light level (default matches occupied level). This adjustable light level is often set to half of the occupied daylight level using the programming remote.

• At the end of the timeout period the lighting will go to the unoccupied light level. This adjustable light level uses the OFF default setting.

• If sufficient sunlight is present, the luminaire will remain OFF, regardless of occupancy.
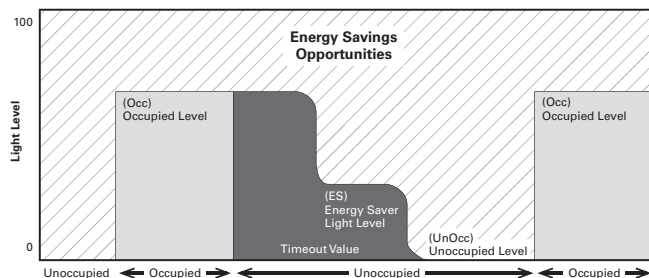
Coverage

SVPD2 Coverage Pattern (not to scale)

Sensor Dimensions

0.95"
[24.36 mm]

1.69"
[43.13 mm]

Optional Remote Controls

ISHH01LUM Programming Remote

ISHH02LUM Personal Control Remote

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Specifications and dimensions subject to change without notice.

TD506025EN
11-28-18

LF ILLUMINATION

BULLET
OUTDOOR RECESSED FIXED DOWNLIGHT

WET LOCATION - IP66   **LED**

PROJECT	TYPE	CATALOG NUMBER

Remote Power Supply & Housing Included

Conduit (by others)

Adjustable .38" - 1.80" Pressure Fit

7.36" (187)

5.00" (127)

6.56" (167)

6.06" (154)

4.43" (113)

5.00" (127)

2.72" (69)
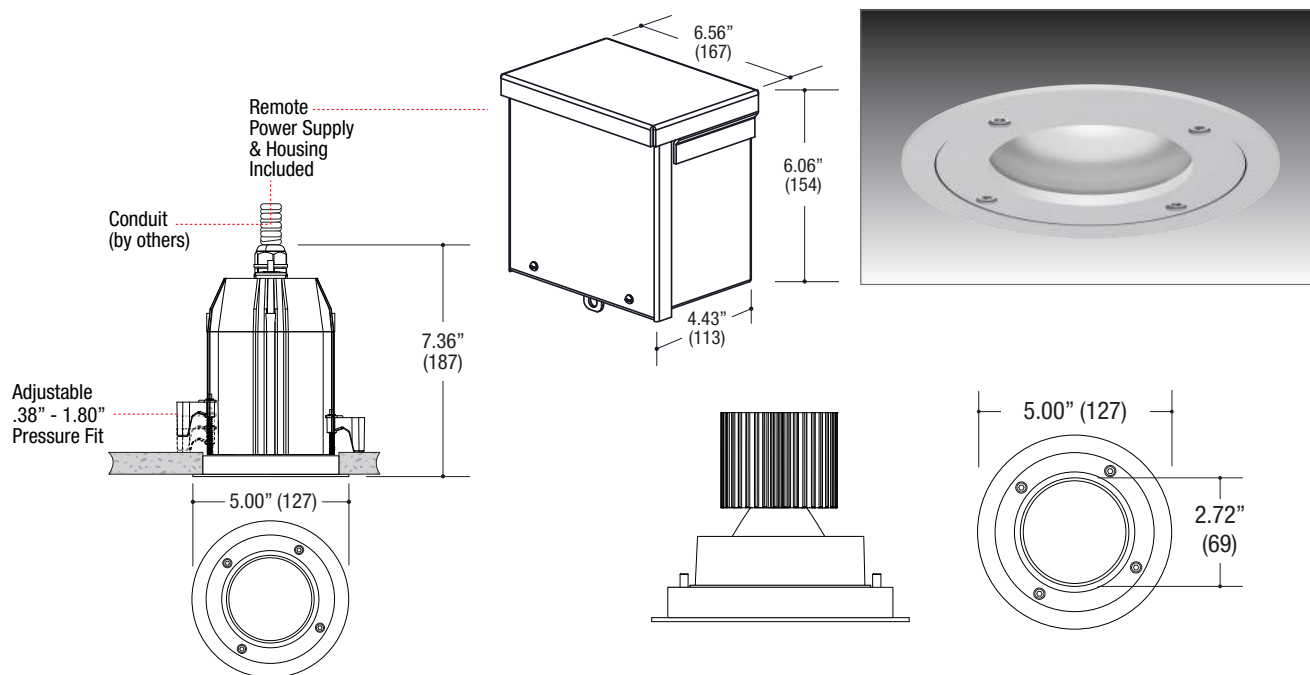
DOWNLIGHT
- Recessed fixed downlight
- Die-cast aluminum trim
- Powder coat finish

HOUSING
- Extruded aluminum central housing
- Powder coat finish
- Dust and water jet tight sealed
- **Ceiling Cut-Out - Ø4.65"**

LED SOURCE
- Field-changeable optic
- 20W / 1670lm, 80CRI / 3000K

ELECTRICAL
- Remotely installed LED driver included
- Separated primary wiring compartment with power supply
- Double cable entry for through wiring
- Superpure aluminum reflector
- Dimmable

MOUNTING
- Swing out pressure fit mounting clips
- Adjustable up to 1.80" max. ceiling thickness

LABELS
- Suitable for wet location
- IP66 rated

5 YEAR WARRANTY Limited

CSA c us

ORDERING INFO

SERIES	WATTAGE	CRI / COLOR	BEAM	DRIVER	VOLTAGE	FINISH	OPTIONS
5811-1SA-T BULLET Recessed Die-Cast Aluminum Trim Fixed Downlight Trimmed Fixture	**20L** 20W LED 1670 lm nom.	**8027** 80CRI / 2700K **8030** 80CRI / 3000K **8035** 80CRI / 3500K **8040** 80CRI / 4000K **9027** 90CRI / 2700K **9030** 90CRI / 3000K **9727** 97CRI / 2700K **9730** 97CRI / 3000K	**N** Narrow 25° **M** Medium 45° **W** Wide 55°	**DM** Dimming Multiple Forward/Reverse (@ 120V only) 0-10V Wires Present (@ 120-277V only) **D3** Lutron Hi-lume™* Forward Phase 2 wire 1% (120V only) **DE** Lutron Hi-lume™ EcoSystem™* 1% w/Soft-On, Fade-to-Black™ 1% (120-277V only)	**1** 120V **U** 120-277V	**SS** Silver	**EM** Remotely Mounted Emergency LED Inverter (Field wiring required)

Ordering Example: **5811-1SA-T-20L-8030-M-DM-U-SS**

HEADQUARTERS
9200 Deering Avenue
Chatsworth CA 91311

Telephone: 818-885-1335
Toll Free: 855-885-1335
Fax: 818-576-1335

www.lfillumination.com
rev: 120419

LF ILLUMINATION

EMERGENCY INVERTERS

LED **ELV** **MLV**

PROJECT	TYPE	CATALOG NUMBER

The emergency inverter provides full power up to its load rating for no less than 90 minutes as prescribed by UL 924 Listed for US and Canada & CSA C22 No. 141 Unit Equipment for Emergency Lighting.

The inverter is installed remotely, behind an access panel or with above ceiling access required (behind grid ceilings are also acceptable). The inverter is not accessible through the fixture opening in the ceiling. The inverters are rated for 120-277V and will work for LED, ELV, MLV, incandescent & fluorescent loads.

The inverter is paired for the connected load wattage of the light source(s).

25W

If the load rating requirement is 25W (or less) then we recommend **LF #EMREM25**

IOTA #IIS-25-I:	http://www.iotaengineering.com/iis25.htm
Instructions:	http://iotaengineering.com/Inverter/iis25_manual.pdf
Wiring Diagram:	http://iotaengineering.com/diagrams/ad10.pdf

35W

If the load rating requirement is 25-35W then we recommend **LF #EMREM35**

IOTA #IIS-35-I:	http://iotaengineering.com/Inverter/iis35_spec.pdf
Instructions:	http://iotaengineering.com/Inverter/iis35_manual.pdf
Wiring Diagram:	http://iotaengineering.com/diagrams/ad10.pdf

50W

If the load rating requirement is 35-50W then we recommend **LF #EMREM50**

IOTA #IIS-50-I:	http://iotaengineering.com/Inverter/iis50_spec.pdf
Instructions:	http://iotaengineering.com/Inverter/iis50_manual.pdf
Wiring Diagram:	http://iotaengineering.com/diagrams/ad10.pdf

Consult LF Illumination for higher wattage inverter offerings.

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We reserve the right to change or
withdraw specifications without prior notice.

HEADQUARTERS
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