

# 722 WILLIAMSON STREET DEVELOPMENT

722 Williamson Street  
Madison, WI 53703



303 South Paterson Street, Suite One  
Madison, WI 53703  
ph 608-709-1250

February 17, 2016 -- City of Madison Development Review Submittal

## Civil Engineer

Vierbicher  
999 Fourier Drive, Suite #201  
Madison, WI 53717

ph 608-826-0532

- C100 Existing Conditions
- C101 Site Plan
- C102 Demolition Plan
- C103 Utility Plan
- C104 Grading and Erosion Control Plan

## Landscape Architect

Ken Saiki Design, Inc.  
303 S. Paterson Street, Ste One  
Madison, WI 53703

ph 608-251-3600

- L100 Landscape Plan
- Rendered Site Plan (11x17)

## Architectural

CaS Architecture, LLC  
303 S. Paterson Street, Ste One  
Madison, WI 53703

ph 608-709-1250

- G001 Titlesheet and Project Information
- G002 Fire Department Access Plan
- A100 Overall Lower Level Plan
- A101 Overall Grade Level Plan
- A102 Overall Second Level Plan
- A103 Overall Third - Fifth Level Plans
- A104 Overall Roof Plan
- A200 North and East Elevations - New Bldg.
- A201 South and West Elevations - New Bldg
- A210 North and East Elevations - Olds Seed Building
- A211 South and West Elevations - Olds Seed Building
- E001 Overall Exterior Photometrics

Exterior Lighting Cutsheets (8.5"x11")  
Context Map and Images (11x17)  
Rendered Building Images - (3 - 11x17)  
Sun Study - (11x17)  
Olds Seed Building Street Elevation (11x17)

## PROJECT INFORMATION

Site Area: 64,689 sf

Building Footprint: 39,004 sf

### SQUARE FOOTAGE BY USE:

Use	Gross Square Feet
Parking and Storage (S-2)	61,055
Commercial and Core (A-2 and/or B)	8,866
Residential and Core (R-2)	126,744

### BUILDING SUMMARY

Building Type:	Apartment House
Occupancy Classification:	R-2 over A-2, B and S-2 (3 hour separation at second floor line)
Construction Type:	Type 1A up to 2nd Level, VA above
Maximum Allowable Area:	39,000 gsf/floor
Maximum Allowable Stories:	4 over 2nd level separation
Total Occupancy Load:	
Residential (R-2)	634 occupants (126,744 gsf / 200 gsf per occ.)
Commercial Space (A-2)	268 occupants (8,815 nsf / 15 nsf per occ.)
Business (B)	17 occupants (3,255 gsf / 200 gsf per occ.)
Parking (S-2)	305 occupants (61,055 gsf / 200 gsf per occ.)
<b>TOTAL</b>	<b>1,224 occupants</b>

### BUILDING TOTALS

Level	Gross Square Feet
Lower Level (New Building)	23,355
Lower Level (Olds Seed Building)	14,585
Grade Level (New Building)	24,419
Grade Level (Olds Seed Building)	14,585
Second Level (New Building)	19,788
Second Level (Olds Seed Building)	14,585
Third Level (New Building)	18,736
Third Level (Olds Seed Building)	14,585
Fourth Level (New Building)	18,736
Fourth Level (Olds Seed Building)	14,585
<b>Fifth Level (New Building)</b>	<b>18,736</b>
<b>TOTAL</b>	<b>196,695</b>

### PARKING COUNTS

Automobile (Interior Residential)	113
4 Handicap Stalls (provided 2%)	
Automobile (Surface Parking)	27
21 stalls for 7,000 sf of Commercial Space	
8 stalls for Residential guests	
<b>TOTAL ONSITE PARKING</b>	<b>140</b>
<b>BIKE PARKING REQUIRED</b>	<b>169</b>
141 (1 & 2 bedroom units)	141
Guests (141 units - 1 stalls/unit)	14
Commercial (2 per 1,000 sf)	14
<b>TOTAL ONSITE BIKE PARKING</b>	<b>169</b>
Bike Parking in Parking Garage	156
and Lower Level of Olds Seed Building	
Exterior Parking for Commercial and Visitors	32

CITY OF MADISON DEVELOPMENT REVIEW SUBMITTAL:  
Submitted dated February 17, 2016 for the following Meeting Dates:  
City Council - April 12, 2016  
Urban Design Commission - April 12, 2016  
Plan Commission - April 18, 2016  
Common Council - May 3, 2016

**NOT FOR CONSTRUCTION**

## 722 Williamson Street Apartments

722 Williamson Street  
Madison, WI 53703  
Project #: 15003.00

## Design Development

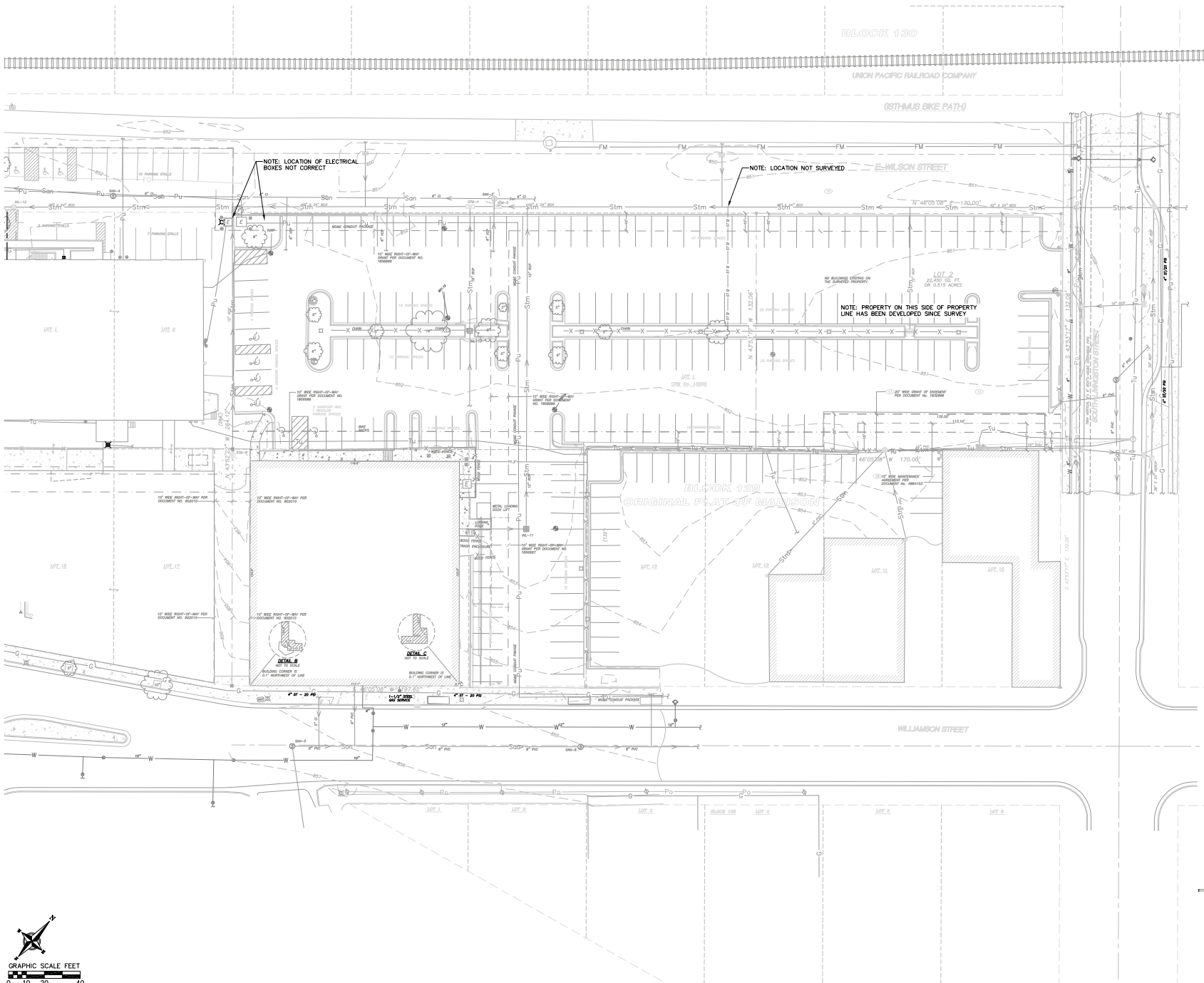
Issued for:

No.	Description	Date
01	City of Madison Review	02-17-2016

Drawn by: CaS4 Architecture  
Checked by: CaS4 Architecture

## TITLESHEET

**G001**



CITY OF MADISON DEVELOPMENT REVIEW SUBMITTAL:

Submitted for: February 17, 2016 for the following Meeting Dates

Lanterns Commission - March 14, 2016

Urban Design Commission - April 19, 2016

Common Council - April 19, 2016

Common Council - May 3, 2016

**NOT FOR CONSTRUCTION**

**722 Williamson Street  
 Apartments**  
 722 Williamson Street  
 Madison, WI 53703

Vierbicher Project #: 150341

**Design Development**

Issued for:

No.	Description	Date
01	City of Madison Review	02-17-2016

Drawn by: AGEF - VIERBICHER  
 Checked by: TSCH - VIERBICHER

**EXISTING  
 CONDITIONS**

**C100**







CITY OF MADISON DEVELOPMENT REVIEW SUBMITTAL:  
Submitted Date: February 17, 2016 for the following Meeting Dates:  
March 14, 2016  
Urban Design Commission - April 16, 2016  
City Commission - April 16, 2016  
Common Council - May 3, 2016

**NOT FOR CONSTRUCTION**

**722 Williamson Street  
Apartments**  
722 Williamson Street  
Madison, WI 53703

Vierbicher Project #: 150341

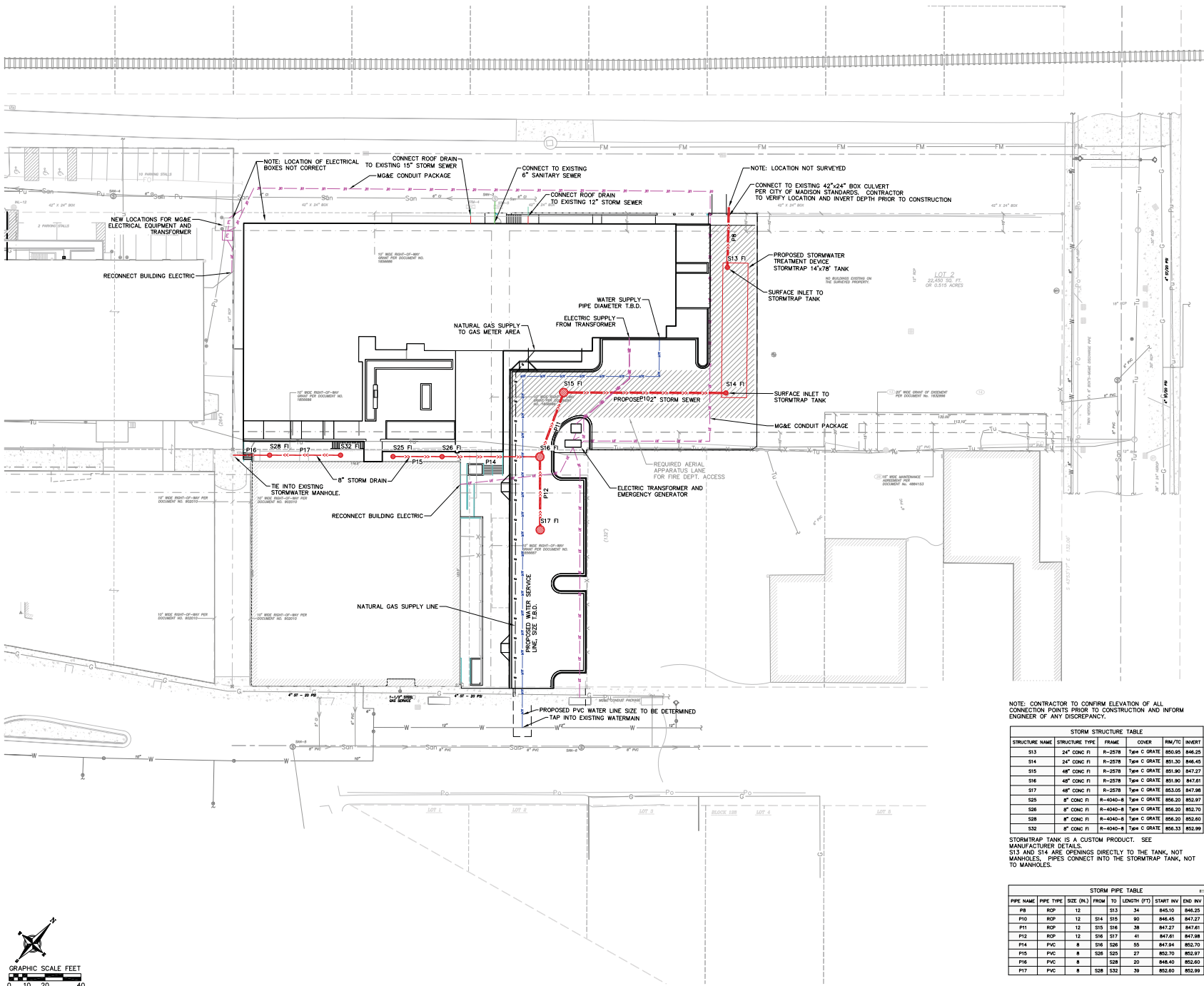
**Design Development**

No.	Description	Date
01	City of Madison Review	02-17-2016

Drawn by: AGEF - VIERBICHER  
Checked by: TSCH - VIERBICHER

**UTILITY PLAN**

**C103**

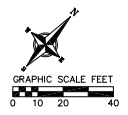


NOTE: CONTRACTOR TO CONFIRM ELEVATION OF ALL CONNECTION POINTS PRIOR TO CONSTRUCTION AND INFORM ENGINEER OF ANY DISCREPANCY.

STRUCTURE NAME	STRUCTURE TYPE	FRAME	COVER	RM/TC	INVERT
S13	24" CONC FI	R-2578	Type C GRATE	850.35	846.25
S14	24" CONC FI	R-2578	Type C GRATE	851.30	846.65
S15	48" CONC FI	R-2578	Type C GRATE	851.90	847.27
S16	48" CONC FI	R-2578	Type C GRATE	851.90	847.61
S17	48" CONC FI	R-2578	Type C GRATE	853.05	847.98
S25	8" CONC FI	R-4040-8	Type C GRATE	856.20	852.97
S26	8" CONC FI	R-4040-8	Type C GRATE	856.20	852.70
S28	8" CONC FI	R-4040-8	Type C GRATE	856.20	852.60
S32	8" CONC FI	R-4040-8	Type C GRATE	856.33	853.99

STORMTRAP TANK IS A CUSTOM PRODUCT. SEE MANUFACTURER DETAILS.  
S13 AND S14 ARE OPENINGS DIRECTLY TO THE TANK, NOT MANHOLES. PIPES CONNECT INTO THE STORMTRAP TANK, NOT TO MANHOLES.

PIPE NAME	PIPE TYPE	SIZE (IN.)	FROM TO	LENGTH (FT)	START INV.	END INV.	SLOPE
P8	RCP	12	S13 S4	845.00	846.25	847.83	0.41%
P10	RCP	12	S14 S15	90	846.65	847.27	0.90%
P11	RCP	12	S15 S16	38	847.27	847.61	0.90%
P12	RCP	12	S16 S17	41	847.61	847.98	0.90%
P14	PVC	8	S28 S25	55	847.94	852.70	6.72%
P15	PVC	8	S28 S23	27	852.70	852.97	1.00%
P16	PVC	8	S28 S2	20	848.40	852.60	20.60%
P17	PVC	8	S28 S32	39	852.60	852.99	1.00%

























1 SOUTH ELEVATION

SCALE: 1/8"=1'-0"



2 WEST ELEVATION

SCALE: 1/8"=1'-0"

**ELEVATION KEYNOTE LEGEND**

- 1 EXISTING MASONRY TO BE TUCK POINTED AS REQUIRED
- 2 NEW THERMALLY BROKEN ALUMINUM CLAD WINDOWS, MEDIUM BRONZE FINISH
- 3 NEW THERMALLY BROKEN ALUMINUM STOREFRONT, FINISH VARIES BY LOCATION
- 4 NEW THERMALLY BROKEN ALUMINUM GARAGE DOOR SYSTEMS, FINISH VARIES BY LOCATION
- 5 INSULATED CLEAR GLASS
- 6 INSULATED TEXTURED GLASS
- 7 NEW EIFS SYSTEM, REMOVING ALL EXISTING EIFS AND REPLACING WITH 2" EIFS SYSTEM ON DRAINAGE LAYER
- 8 ALUMINUM GILL FLASHING TO MATCH EIFS
- 9 GALVANIZED STRUCTURAL STEEL
- 10 GALVANIZED STEEL HANDRAILS AND/OR MESH GUARD
- 11 RECLAIMED WOOD SLAT WALL
- 12 LIGHTING
- 13 ALUMINUM PLATE SIGNAGE
- 14 SANDBLASTED CAST IN PLACE CONCRETE
- 15 RECLAIMED WOOD BENCH SLABS
- 16 CORRUGATED METAL PANEL, CHARCOAL GRAY FINISH
- 17 STANDING SEAM METAL ROOF, COLOR TO BE CHARCOAL GRAY TO MATCH CORRUGATED METAL PANEL
- 18 GALVANIZED TUBE STEEL/LAND MESH GUARD FENCE AND EGRESS GATE
- 19 BRICK VENEER, MODULAR SIZE IN RUNNING BOND PATTERN, BUFT COLOR
- 20 BRICK VENEER, MODULAR SIZE IN RUNNING BOND PATTERN, REDDISH BROWN COLOR
- 21 HOOK AND STRAP FLAT SEAM METAL PANEL, TO OFFSET HORIZONTAL JOINTS, SILVER METALLIC COLOR
- 22 FIBERGLASS WINDOW AND DOOR WITH INSULATED CLEAR GLASS
- 23 ALUMINUM RAILING SYSTEM, FINISH TO MATCH HOOK STRAP FLAT SEAM METAL PANEL

CITY OF MADISON DEVELOPMENT REVIEW SUBMITTAL:

Submitted: February 17, 2016 for the following Meeting Dates:  
 - February 25, 2016  
 - April 8, 2016  
 - April 18, 2016  
 - May 2, 2016  
 Urban Design Commission  
 Plan Commission  
 Common Council

**NOT FOR CONSTRUCTION**

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 722 Williamson Street  
 Madison, WI 53703  
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**Design Development**

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Drawn by: Cas4 Architecture  
 Checked by: Cas4 Architecture

**OVERALL BUILDING  
 ELEVATIONS**

**A201**











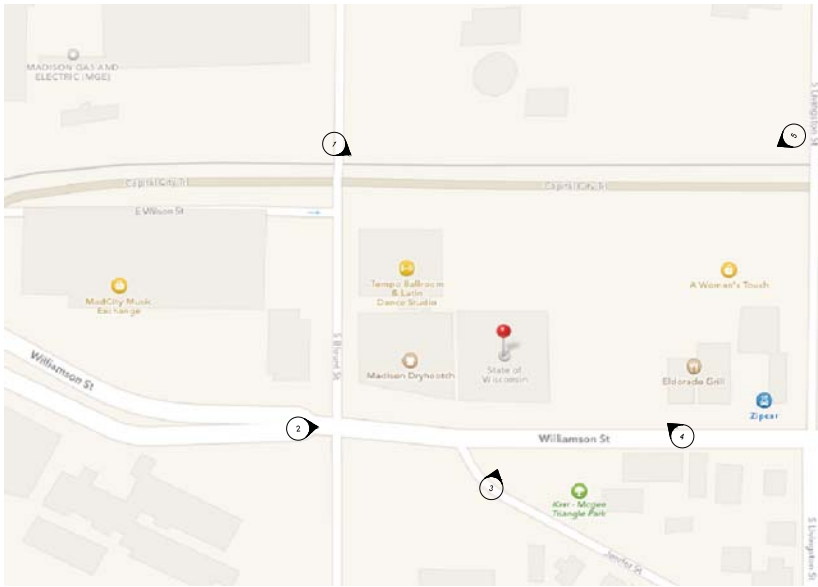
1 VIEW OF SITE FROM S. BLOUNT STREET  
SCALE: NTS



2 VIEW LOOKING EAST ON WILLIAMSON STREET  
SCALE: NTS



3 WILLIAMSON STREET VIEW OF OLDS SEED BUILDING  
SCALE: NTS



4 SITE LOCATOR MAP  
SCALE: NTS



5 VIEW LOOKING WEST ON WILLIAMSON STREET  
SCALE: NTS



6 VIEW OF SITE FROM S. LIVINGSTON STREET  
SCALE: NTS

15003.00

# 722 Williamson Street Context Map and Images

722 Williamson Street  
Scale: NTS

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15003.00

# 722 Williamson Street Rendered Site Plan

722 Williamson Street  
Scale: NTS

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**KEN SAIKI DESIGN**  
LANDSCAPE  
ARCHITECTS



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View from Bike Path looking west



View from Bike Path looking east



Gateway to Development from Bike Path



Direct access from Building to Bike Path

15003.00

## Building Images

722 Williamson Street  
Scale: NTS

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View from Williamson Street



View of Lantern and Courtyard between Buildings beyond



View of Promenade and Lantern from Williamson Street



View from Promenade back to Lantern

15003.00

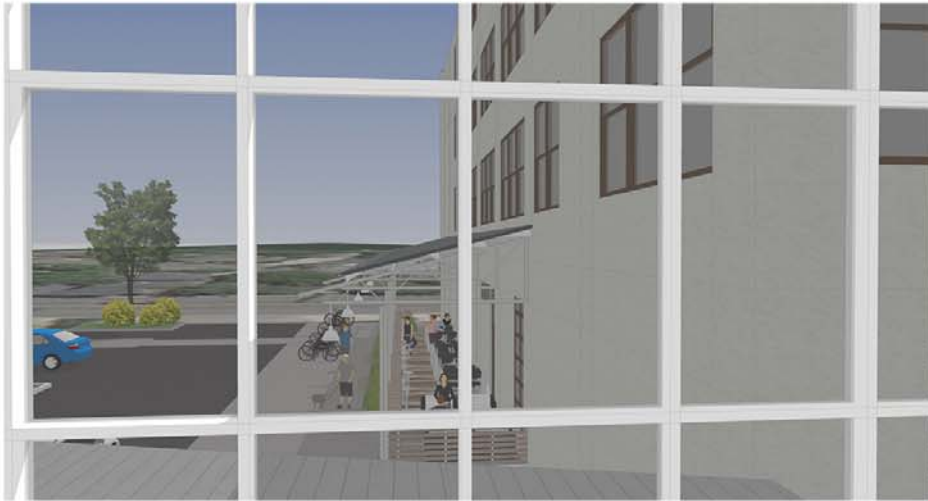
## Building Images

722 Williamson Street  
Scale: NTS

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View from Second Floor of Lantern back to Promenade



View from Second Floor of Lantern out to Residential Terrace



View from Residential Terrace back to Second Floor of Lantern



View from Residential Terrace back to Second Floor of Lantern

15003.00

## Building Images

722 Williamson Street  
Scale: NTS

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Sun Study - June 21st (9 a.m. / Noon / 3 p.m.)



Sun Study - December 21st (9 a.m. / Noon / 3 p.m.)



15003.00

Sun Study  
722 Williamson Street  
Scale: NTS

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Proposed Renovation of Williamson Street Elevation



Early Photos of Williamson Street Elevation



Current Williamson Street Elevation



Early Photos of Williamson Street Elevation

## Olds Seed Building Williamson Street Elevation

722 Williamson Street  
Scale: 1/16" = 1' - 0"

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# URBAN

F1

PREPARED BY: \_\_\_\_\_

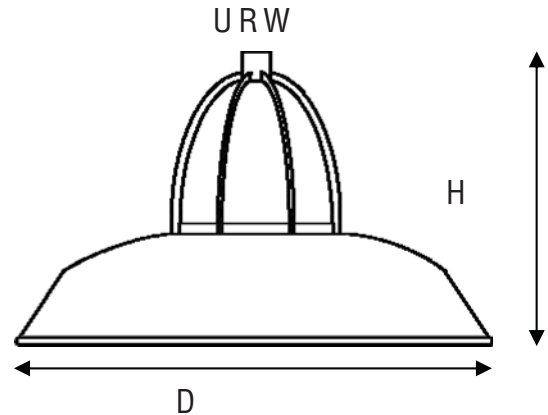
TYPE: \_\_\_\_\_

JOB NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

CERTIFICATION: UL LISTED

MODEL#	D"	H"
URW16	16	12
URW18	18	13.5
URW20	24	20



**FINISH**-Five stage pretreatment process, coated with a lead free TGI C polyester powder coat finish. White is standard inside reflectors, Except #49-Galvanized, #62-Anodized Bronze and #63-Iron Rust, Unless specified. Custom colors and Marine are available upon request.

**MOUNTING**- 1/2" or 3/4" tapped hub is supplied. Top or side mount available. Fixtures are pre-wired with 48" or 96" leads. Available with cord or stem sets.

**REFLECTOR**- Spun from heavy gauge 1100-0 aluminum, ranging in thickness from .050 to .125. Galvanized is from 20 gauge sheets. Copper is spun from .040 gauge and 110 soft alloy.

**LAMP HOLDERS**- Accommodates **Incandescent** medium base porcelain socket, copper shell with nicked plate, rated 250V, 660W. **Compact Fluorescent** 4 pin heat resistant thermoplastic socket accommodates 26/32W (Gx24q-3 base) and 42W (Gx24q-4 base). Twist lock design provides for vibration and earthquake resistance, rated 75W, 600V. **High Intensity Discharge (H.I.D.)** medium base, 4KV pulse start socket, rated 660W/600V. **LED**. A minimum of 60,000 hours to 100,000 expected life depending on installation location and ambient temperature.

MODEL#	FINISH		LIGHT SOURCE				MOUNTING OPT.
			INC	CF <sup>1</sup>	HID <sup>1</sup>	LED	
URW16	40-copper w/ coat	51-arch. Bronze	200W	26W 32W	50W 70W	36W	-Arm extension -Post Mts & Pole -Stem -Cord <sup>2</sup> -Cable & Chain -Hub
URW18	41-black 42-dr. green 43-red 44-white 45-med. blue 46-yellow	52-patina 53-rust 54-stucco 55-sage 57-polish alum w/ coat	<div style="border: 2px solid red; padding: 5px; text-align: center;">                         RELABELED FOR MAX 20W                     </div>		57W		
URW20	48-polish alum. 49-galvanized 50-navy blue 51-arch. Bronze	58-satin alum. clear coat 59-coppertone 60-canal green 61-anod. charcoal 62-anod. bronze 63-iron rust			300W	35W 50W 70W 100W 150W	

<sup>1</sup>REMOTE BALLAST  
<sup>2</sup>INC MAX WATTAGE 150W  
 CALL FACTORY FOR HIGHER WATTAGE



PHONE: 877-999-1990  
 FAX: 877-999-1955

12260 EAST END AVE. CHINO, CA 91710



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## Photometric Report (Type C)

Filename: P442.IES  
[TEST] P142ICS  
[MANUFAC] DELRAY LIGHTING  
[LUMCAT] P442  
[LUMINAIRE] WHITE DOWNLIGHT REFLECTOR  
[LAMPCAT] 1- 42W TRIPLE TUBE 3000K

Maximum Candela = 677 at 0 H 25 V

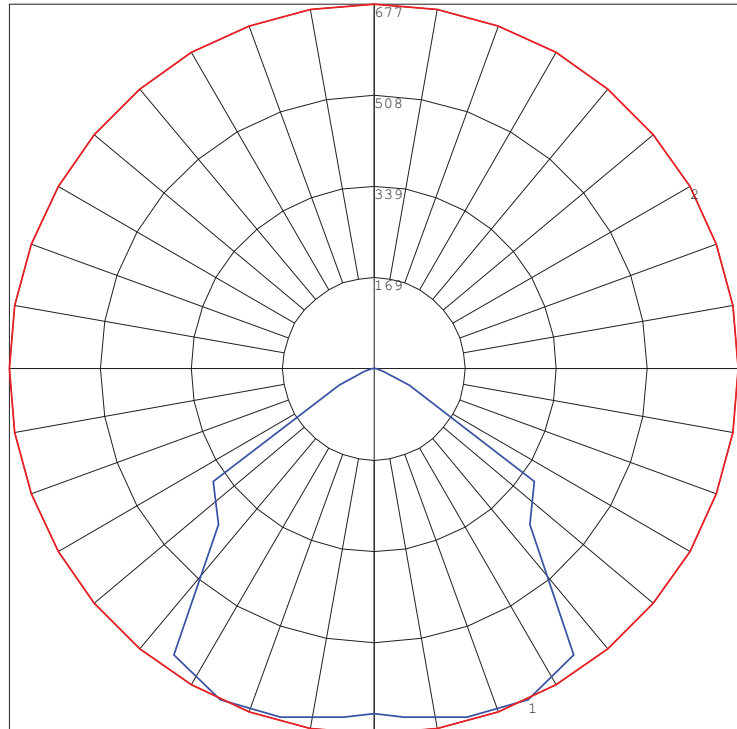
### Classification:

Road Classification: Type V, Very Short, Full Cutoff (deprecated)  
Upward Wast Light Ratio: 0.00  
Luminaire Efficacy Rating (LER): 21  
Indoor Classification: Direct  
BUG Rating : B0-U0-G0

### Polar Candela Curves:

Vertical Plane Through:  
1) 0 - 180 Horizontal

Horizontal Cone Through:  
2) 25 Vertical





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## Photometric Report (Type C)

Filename: P442.IES  
[TEST] P142ICS  
[MANUFAC] DELRAY LIGHTING  
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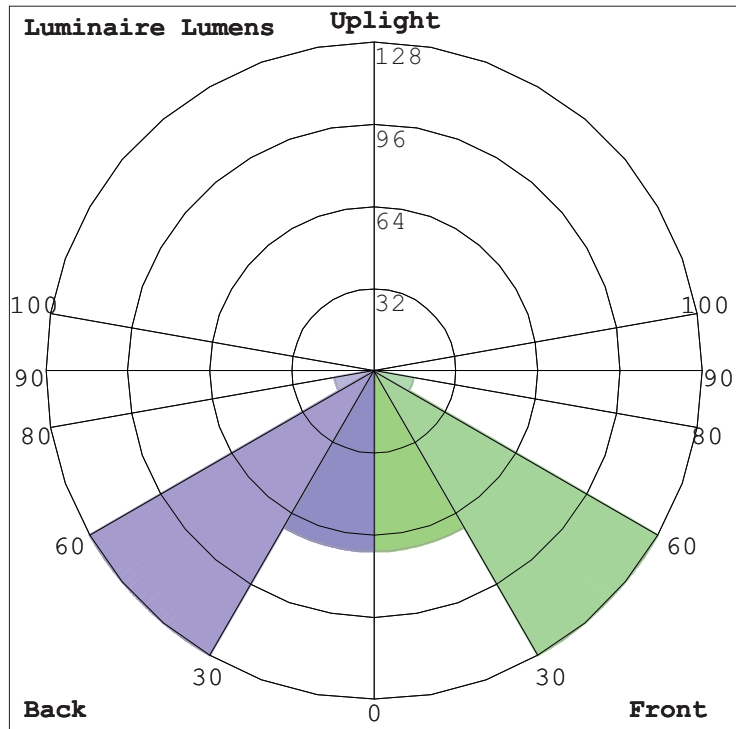
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### Classification:

Road Classification: Type V, Very Short, Full Cutoff (deprecated)  
Upward Waste Light Ratio: 0.00  
Luminaire Efficacy Rating (LER): 21  
Indoor Classification: Direct  
BUG Rating : B0-U0-G0

### LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	70.3	8.8	16.4
FM (30-60)	127.9	16.0	29.8
FH (60-80)	15.6	1.9	3.6
FVH (80-90)	0.6	0.1	0.1
BL (0-30)	70.3	8.8	16.4
BM (30-60)	127.9	16.0	29.8
BH (60-80)	15.6	1.9	3.6
BVH (80-90)	0.6	0.1	0.1
UL (90-100)	0.0	0.0	0.0
UH (100-180)	0.0	0.0	0.0
Total	428.8	53.6	100.0
BUG Rating	B0-U0-G0		





## PROJECT

Job _____	Notes
Type <b>F2</b> _____	
Part # _____	

## SPECIFICATIONS

- Source Xicato XTM LED module - up to 2000 lumens
- C.C.T. 2700K, 3000K, 3500K or 4000K
- Color Consistency 1x2 SDCM (MacAdam) along BBL, CCT +/- 40K to 70K, Duv +/- .001
- CRI (Ra) 83 or 98
- Driver / Location Included / Remote mount or deep canopy options
- Dimming 0-10V or phase dimming to 10% standard; DALI, DMX and 1% dimming available
- Input Voltage 100 to 277VAC, phase dimmable versions are 120VAC only
- Power Up to 24 watts max, depending on LED module / driver
- Reflector 20°, 40° or 60° - field replaceable without tools
- Material CNC machined aluminum with stainless steel hardware
- Finish Powder coat - TGIC polyester for exterior and interior use
- Weight 2.1 lb. [0.95 kg], ADA Compliant Version 1.8 lb. [0.8 kg]
- Location Listed for Wet & Damp locations
- Approvals ETL Listed to UL 1598, 2108, 8750 and CSA C22.2# 9 & #250.0
- L80 Life > 50,000 hours at 80% lumen maintenance based on IESNA LM-80-08
- Warranty Lifetime Limited Warranty - see warranty for details
- IES Files LM-79-08 IES files available at [www.v2LightingGroup.com/downloads](http://www.v2LightingGroup.com/downloads)
- Modifications Any modification or customization is possible - consult factory



## ORDERING LOGIC

Model	Driver		Mounting		Output	CRI *	C.C.T.	Reflector	Shell Color	Options
	Location	Dimming	Location	Location						
<b>C2SS</b>										
	R=Remote	N=None	D=Damp		07=700 lm	83=83	27=2700K	20=20°	XX	ADA=ADA Compliant
	D=Deep	P=Phase	W=Wet		10=950 lm	98=98*	30=3000K	40=40°	(see chart on page 4)	
	Canopy	V=0-10V			13=1300 lm		35=3500K	60=60°		
		Z=Other			20=2000 lm		40=4000K		ZZ=Custom	

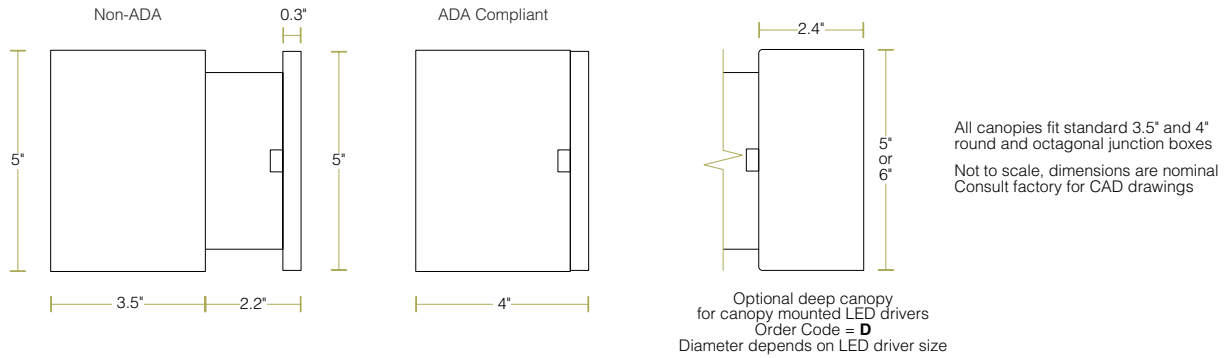
\* 98 CRI not available in 2000 lm

VERIFY FINISH SELECTION WITH ARCHITECT

Example Part Number: **C2SS-RND-13832740-S3**

**CORE 200 SX Sconce** - Remote Driver, No Dimming, Damp Location - 1300 lm, 83 CRI, 2700K, 40° Reflector - S3 Red Shell

## DIMENSIONS



## LED OPTIONS

Reflector Option	LED Specifications				
	LES <sup>1</sup>	CRI	Lumens <sup>2,3,4</sup>	Wattage <sup>5</sup> (W)	Efficacy <sup>6</sup> (lm/W)
20°, 40° & 60°	19mm	Ra = 83 ± 3	700	5.6	129
			950	8.2	118
			1300	11.7	111
			2000	19.5	102
		Ra = 98 R9 ≥ 90 R15 ≥ 95	700	7.4	97
			950	10.9	89
		1300	15.6	83	

- <sup>1</sup> LES: Light Emitting Surface diameter  
<sup>2</sup> ±10%  
<sup>3</sup> Source lumens - see photometrics on page 3 for LOR to calculate delivered lumens  
<sup>4</sup> Higher lumen outputs are available in CORE / QUBE 300 and 400 series  
<sup>5</sup> Maximum luminaire wattage including LED driver = LED wattage x 1.2  
<sup>6</sup> Higher efficacies are available via lower drive currents - consult factory

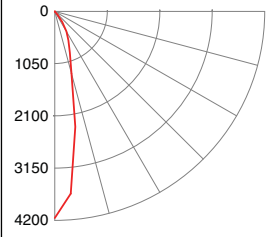
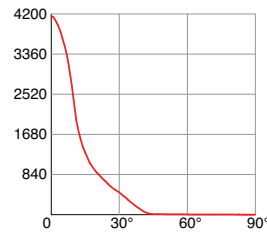
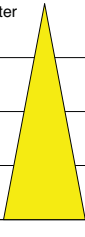
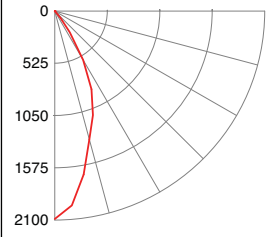
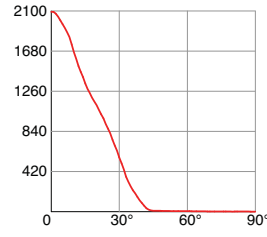

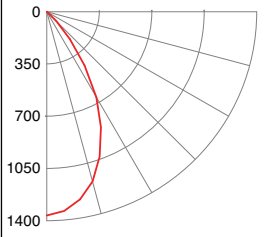
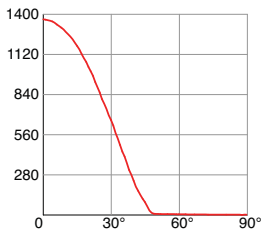

## CONTROL OPTIONS

Standard LED Drivers* (included in base price)	Order Code <b>V</b> = 0-10V dimming to 10%
	Order Code <b>P</b> = Phase dimming to 10% Compatible with both forward and reverse phase dimmers
Optional LED Drivers*	eldoLED 0-10V, DALI, or DMX dimming to 0%
	Lutron Hi-lume™ A-series, EcoSystem or forward phase dimming to 1% Lutron Hi-lume™ 5-series, EcoSystem dimming to 5%

- \* All LED drivers must be mounted in a deep canopy or remote  
 \* Standard LED drivers are suitable for Wet Location  
 \* Optional LED drivers are suitable for Damp Location  
 \* For EM applications:  
 All LED drivers may be used with 3rd party inverter style systems

## PHOTOMETRICS

LM-79-08 IES files available at [www.v2LightingGroup.com/downloads](http://www.v2LightingGroup.com/downloads)

Beam Angle	Order Code	Intensity Plot (cd) (1300lm)	Polar Plot (cd) (1300lm)	Cone Diagram (1300lm)	Description										
20°	<b>20</b>			 <table border="1"> <thead> <tr> <th>Beam Diameter</th> <th>Distance</th> </tr> </thead> <tbody> <tr> <td>1.9'</td> <td>5' 166 fc</td> </tr> <tr> <td>3.8'</td> <td>10' 42 fc</td> </tr> <tr> <td>5.7'</td> <td>15' 18 fc</td> </tr> <tr> <td>7.6'</td> <td>20' 10 fc</td> </tr> </tbody> </table>	Beam Diameter	Distance	1.9'	5' 166 fc	3.8'	10' 42 fc	5.7'	15' 18 fc	7.6'	20' 10 fc	CBCP = 3195 cd/klm Beam Angle = 21° Field Angle = 63° LOR = 89.4% Beam = full width @ 50% Field = full width @ 90%
Beam Diameter	Distance														
1.9'	5' 166 fc														
3.8'	10' 42 fc														
5.7'	15' 18 fc														
7.6'	20' 10 fc														
40°	<b>40</b>			 <table border="1"> <thead> <tr> <th>Beam Diameter</th> <th>Distance</th> </tr> </thead> <tbody> <tr> <td>3.9'</td> <td>5' 84 fc</td> </tr> <tr> <td>7.9'</td> <td>10' 21 fc</td> </tr> <tr> <td>11.8'</td> <td>15' 9 fc</td> </tr> <tr> <td>15.7'</td> <td>20' 5 fc</td> </tr> </tbody> </table>	Beam Diameter	Distance	3.9'	5' 84 fc	7.9'	10' 21 fc	11.8'	15' 9 fc	15.7'	20' 5 fc	CBCP = 1607 cd/klm Beam Angle = 43° Field Angle = 73° LOR = 88.7% Beam = full width @ 50% Field = full width @ 90%
Beam Diameter	Distance														
3.9'	5' 84 fc														
7.9'	10' 21 fc														
11.8'	15' 9 fc														
15.7'	20' 5 fc														
60°	<b>60</b>			 <table border="1"> <thead> <tr> <th>Beam Diameter</th> <th>Distance</th> </tr> </thead> <tbody> <tr> <td>5.6'</td> <td>5' 55 fc</td> </tr> <tr> <td>11.3'</td> <td>10' 14 fc</td> </tr> <tr> <td>16.9'</td> <td>15' 6 fc</td> </tr> <tr> <td>22.6'</td> <td>20' 3 fc</td> </tr> </tbody> </table>	Beam Diameter	Distance	5.6'	5' 55 fc	11.3'	10' 14 fc	16.9'	15' 6 fc	22.6'	20' 3 fc	CBCP = 1050 cd/klm Beam Angle = 59° Field Angle = 86° LOR = 85.2% Beam = full width @ 50% Field = full width @ 90%
Beam Diameter	Distance														
5.6'	5' 55 fc														
11.3'	10' 14 fc														
16.9'	15' 6 fc														
22.6'	20' 3 fc														

### Beam Shaping Options

Add the order code shown below to the options box at the end of the part number:

Order Code	Description
<b>-HL</b>	Honeycomb Louver
<b>-DF</b>	Diffusion Lens
<b>-SF</b>	Satin finish on any standard reflector
<b>-LS</b>	Linear Spread Lens (60° x 1°)
<b>-WW</b>	Wall Wash Lens (shifts beam 20° from vertical)



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## Photometric Report (Type C)

Filename: CORE 200 700lm 80CRI 600deg.IES  
[TEST] Report XSM80XX-700-C with XSA-12 (59deg\_70mm  
Plastic reflector)-9.7-12\_10\_2012  
[MANUFAC] Xicato Inc, San Jose, CA USA  
(<http://www.xicato.com>)  
[LUMCAT] "XSM80xx-700-C with XSA-12 (59deg\_70mm  
Plastic reflector) - typical module at 70C and 1050mA"  
[LUMINAIRE] "XSM80XX-700-C with XSA-12 (59deg\_70mm  
Plastic reflector)"  
[LAMP] "Xicato XSM80xx-700-C - typical module at 70C,  
1050mA, 80CRI (min)"

Maximum Candela = 735 at 0 H 0 V

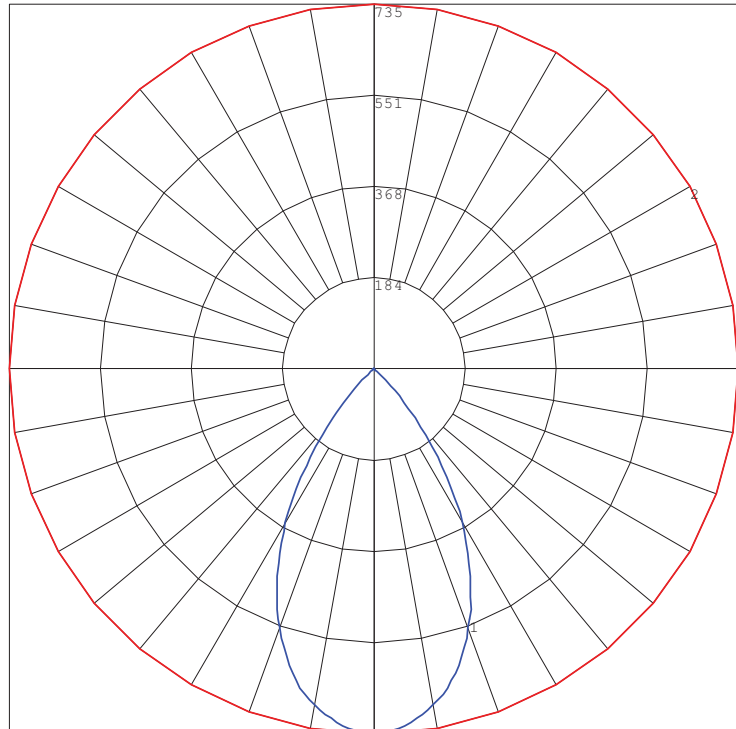
### Classification:

Road Classification: Type V, Very Short, Cutoff (deprecated)  
Luminaire Efficacy Rating (LER): 65  
Indoor Classification: Direct  
BUG Rating : B0-U0-G0

### Polar Candela Curves:

Vertical Plane Through:  
1) 0 - 180 Horizontal

Horizontal Cone Through:  
2) 0 Vertical



# BELL

Wall mounted • Wet location listed



## Specifications:

### Description:

The one-light wall lantern from the Belle LED Collection features nautical undertones and a cage reminiscent of industrial spaces. Ideal for both interior and exterior settings. 3000K, 90+ CRI, 623 lumens.

### Construction:

- Textured Graphite (-136) (powdercoat)
- Aluminum construction
- Glass: Etched glass diffuser
- LED Module is replaceable (Part # 93054049)
- Flicker-free dimming to 10% brightness with most ELV type dimmers (See Dimming Notes)
- CA Title 24 compliant
- Back plate covers a standard 4" hexagonal recessed outlet box
- Mounting strap for outlet box included
- 6" of wire supplied

### Performance:

Number of Modules	1
Input Power	9W
Input Voltage	120V
Input Frequency	60Hz
Lumens/LPW	623/69.2 (LM-79) per module
CCT	3000K
CRI	90
Life	60000 (L70/TM-21)
EMI/RFI	FCC Title 47, Part 15, Class B
Min. Start Temp	-30
Max. Operating Temp	30
Warranty	5 year warranty
Labels	cCSAus Wet location listed ENERGY STAR® qualified

## P5676-13630K9

### Images:



### Dimensions:

Width: 5-1/2"  
Height: 10-5/8"  
Depth: 7-3/8"  
H/CTR: 3"

### Catalog number:

Base	Finish	Color Temp	CRI
P5676	136 - Textured Graphite	30K -3000K	9 - 90 CRI



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## Photometric Report (Type C)

Filename: H-16116 200W INC.IES  
[TEST] 20083  
[MANUFAC] HI-LITE MANUFACTURING - DEEP BOWL  
[LUMCAT] H-161-16  
[LUMINAIRE] WITH WHITE INTERIOR AND NO LENS  
[LAMPCAT] 200W/A21. LUMEN RATING = 3920 LMS.  
[LAMP] ONE GE 200 WATT INCANDESCENT LAMP

Maximum Candela = 1007.5 at 0 H 0 V

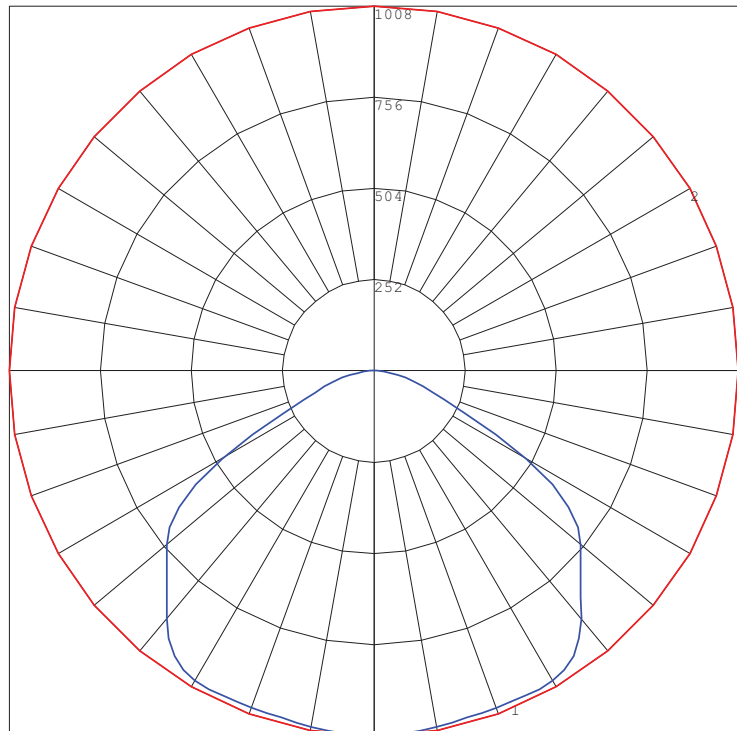
### Classification:

Road Classification: Type V, Very Short, Full Cutoff (deprecated)  
Upward Wast Light Ratio: 0.00  
Luminaire Efficacy Rating (LER): 70  
Indoor Classification: Direct  
BUG Rating : B0-U0-G0

### Polar Candela Curves:

Vertical Plane Through:  
1) 0 - 180 Horizontal

Horizontal Cone Through:  
2) 0 Vertical





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## Photometric Report (Type C)

Filename: H-16116 200W INC.IES  
[TEST] 20083  
[MANUFAC] HI-LITE MANUFACTURING - DEEP BOWL  
[LUMCAT] H-161-16  
[LUMINAIRE] WITH WHITE INTERIOR AND NO LENS  
[LAMPCAT] 200W/A21. LUMEN RATING = 3920 LMS.  
[LAMP] ONE GE 200 WATT INCANDESCENT LAMP

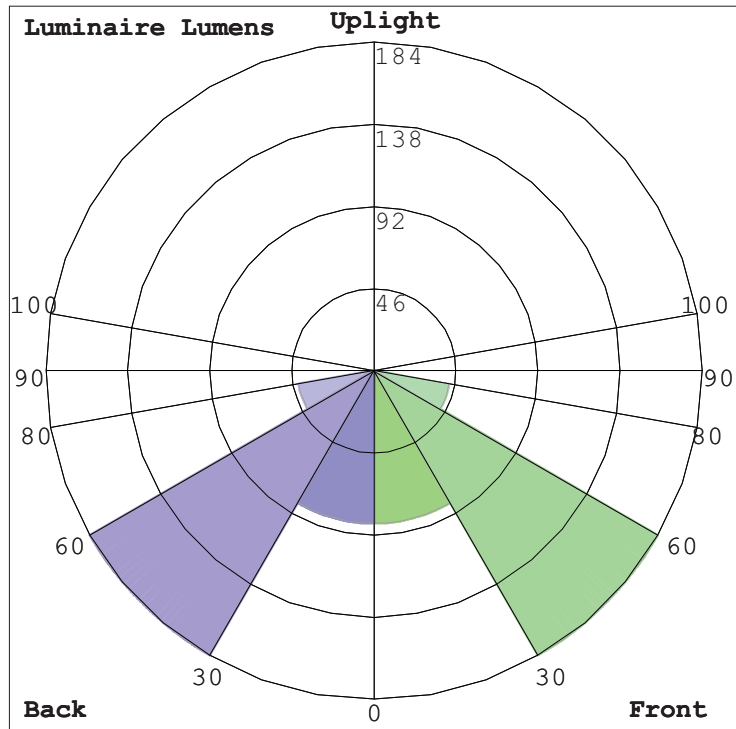
Maximum Candela = 1007.5 at 0 H 0 V

### Classification:

Road Classification: Type V, Very Short, Full Cutoff (deprecated)  
Upward Waste Light Ratio: 0.00  
Luminaire Efficacy Rating (LER): 70  
Indoor Classification: Direct  
BUG Rating : B0-U0-G0

### LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	85.2	10.6	13.5
FM (30-60)	183.6	22.9	29.2
FH (60-80)	42.7	5.3	6.8
FVH (80-90)	3.2	0.4	0.5
BL (0-30)	85.2	10.6	13.5
BM (30-60)	183.6	22.9	29.2
BH (60-80)	42.7	5.3	6.8
BVH (80-90)	3.2	0.4	0.5
UL (90-100)	0.0	0.0	0.0
UH (100-180)	0.0	0.0	0.0
Total	629.4	78.4	100.0
BUG Rating	B0-U0-G0		





BELL

Wall mounted • Wet location listed



**P5676-13630K9**

**Dimming Notes:**

---

P5676 is designed to be compatible with many Electronic Low Voltage (ELV-Reverse Phase) controls.

The following is a partial list of known compatible dimmer controls:

**Electronic Low Voltage ELV Reverse Phase Controls**

---

Lutron	Diva Series	(Part Number DVELV-300P)
--------	-------------	--------------------------

Digital type dimmers are not recommended.

Dimming capabilities will vary depending on the dimmer control, load, and circuit installation. Always refer to dimmer manufacturer instructions or a controls specialist for specific requirements.

Dimmer control brand names where identified above are trade names or registered trademarks of each respective company.



## DESCRIPTION

The Impact Elite family of wall luminaires is the ideal complement to site design. Incorporating modular LightBAR™ technology, the Impact Elite luminaire provides outstanding uniformity and energy-conscious illumination. Combined with a rugged construction, the Impact Elite luminaire is the ideal facade and security luminaire for zones surrounding schools, office complexes, apartments and recreational facilities. UL/cUL listed for wet locations.

<b>Catalog #</b>		<b>Type</b>
<b>Project</b>		F4
<b>Comments</b>		<b>Date</b>
<b>Prepared by</b>		

## SPECIFICATION FEATURES

### Construction

Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx™ head fasteners offer vandal resistant access to the electrical chamber.

### Optics

Choice of six patented, high-efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K CCT, 5000K CCT and 5700K CCT.

### Electrical

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightBARs feature an IP66 enclosure rating and maintain greater than 95% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments and occupancy sensor available.

### Mounting

Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Impact Elite "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws concealed but accessible from bottom of fixture.

### Finish

Cast components finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

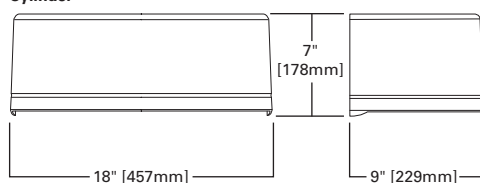
### Warranty

Five-year warranty.

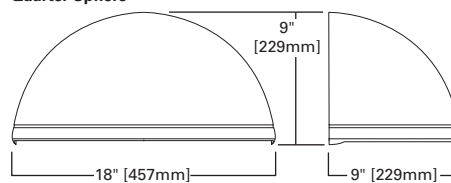


## DIMENSIONS

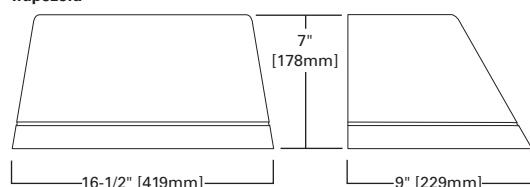
### Cylinder



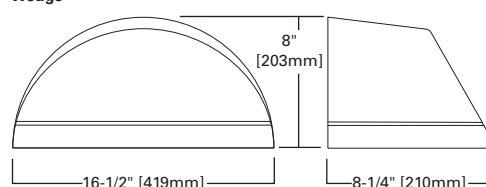
### Quarter Sphere



### Trapezoid



### Wedge



## ISC/ISS/IST/ISW IMPACT ELITE LED



1 - 2 LightBARs  
Solid State LED

WALL MOUNT LUMINAIRE

### CERTIFICATION DATA

UL/cUL Listed  
LM79 / LM80 Compliant  
IP66 LightBARs  
ISO 9001  
DesignLights Consortium® Qualified\*

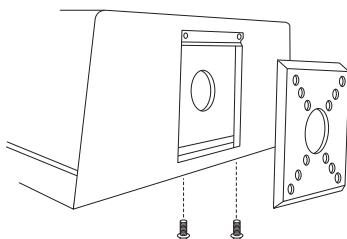
### ENERGY DATA

**Electronic LED Driver**  
>0.9 Power Factor  
<20% Total Harmonic Distortion  
120-277V/50 & 60Hz, 347V/60Hz,  
480V/60Hz  
-40°C Minimum Temperature  
40°C Ambient Temperature Rating

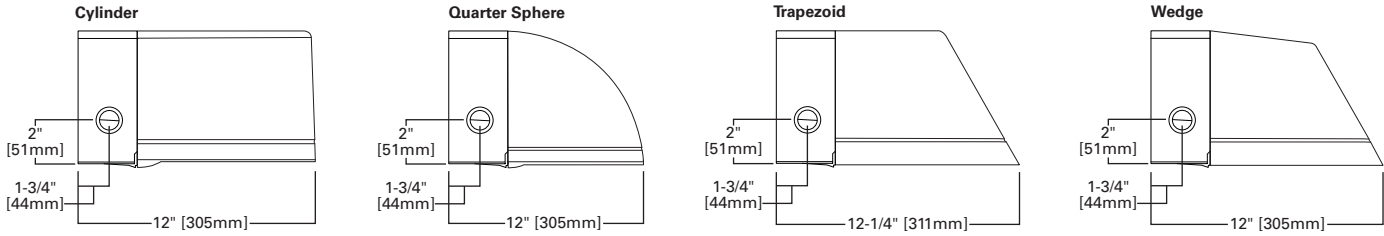
### SHIPPING DATA

Approximate Net Weight:  
18 lbs. (8 kgs.)

## HOOK-N-LOCK MOUNTING



THRUWAY BACK BOX



POWER AND LUMENS BY BAR COUNT

Number of LightBARs	E01		E02		F01		F02	
	21 LED LightBAR				7 LED LightBAR			
Drive Current	350mA				1A			
Power (Watts)	120-277V	25W	47W	26W	50W			
Current (A)	120V	0.22	0.40	0.22	0.42			
	277V	0.10	0.18	0.10	0.19			
Power (Watts)	347V or 480V	31W	52W	32W	55W			
Current (A)	347V	0.11	0.16	0.11	0.17			
	480V	0.16	0.18	0.16	0.18			
<b>Optics</b>								
BL2	Lumens	2,738	5,476	2,260	4,521			
	Bug Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1			
BL3	Lumens	2,702	5,405	2,231	4,462			
	Bug Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G1			
BL4	Lumens	2,613	5,225	2,157	4,313			
	Bug Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G1			
GZW	Lumens	2,785	5,570	2,299	4,598			
	Bug Rating	B2-U0-G2	B3-U0-G3	B1-U0-G1	B2-U0-G2			
SLR/SLL	Lumens	2,435	4,869	2,010	4,020			
	Bug Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G2			

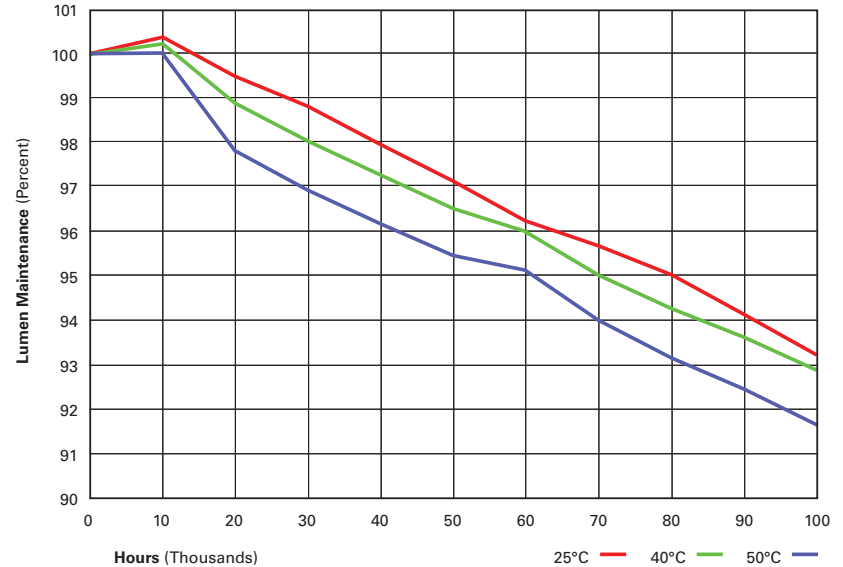
LUMEN MAINTENANCE

Ambient Temperature	25,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours	Theoretical L70 (Hours)
25°C	> 99%	> 97%	> 96%	> 93%	> 450,000
40°C	> 98%	> 97%	> 96%	> 92%	> 425,000
50°C	> 97%	> 96%	> 95%	> 91%	> 400,000

\* Per IESNA TM-21 data.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99



ORDERING INFORMATION

Sample Number: ISC-E02-LED-E1-BL3-GM

Product Family <sup>1</sup>	Number of LightBARs <sup>2,3</sup>	Lamp Type	Voltage	Distribution	Color <sup>5</sup>
ISC=Impact Elite LED Small Cylinder ISS=Impact Elite LED Small Quarter Sphere IST=Impact Elite LED Small Trapezoid ISW=Impact Elite LED Small Wedge	E01=(1) 21 LED LightBAR E02=(2) 21 LED LightBARs F01=(1) 7 LED LightBAR F02=(2) 7 LED LightBARs	LED=Solid State Light Emitting Diodes	E1=Electronic (120-277V) 347=347V 480=480V <sup>4</sup>	BL2=Type II w/Back Light Control BL3=Type III w/Back Light Control BL4=Type IV w/Back Light Control GZW=Wall Grazer Wide SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
<b>Options (Add as Suffix)</b>				<b>Accessories (Order Separately) <sup>11</sup></b>	
2L=Two Circuits <sup>6</sup> 7030=70 CRI / 3000K CCT <sup>7</sup> 7050=70 CRI / 5000K CCT <sup>7</sup> 7060=70 CRI / 5700K CCT <sup>7</sup> 8030=80 CRI / 3000K CCT <sup>7</sup> P=Button Type Photocontrol (Available in 120, 208, 240 or 277V. Must Specify Voltage) OSB=Occupancy Sensor with Back Box (Specify 120V or 277V) <sup>8</sup> BBB-XX=Battery Pack with Back Box (Specify 120V or 277V) <sup>9</sup> CWB-XX=Cold Weather Battery Pack with Back Box (Specify 120V or 277V) <sup>10</sup> DIM=0-10V Dimming Drivers LCF=LightBAR Cover Plate Matches Housing Finish ULG=Uplight Glow TR=Tamper Resistant Hardware				MA1253=10kV Circuit Module Replacement MA1254-XX=Thruway Back Box - Impact Elite Trapezoid MA1255-XX=Thruway Back Box - Impact Elite Cylinder MA1256-XX=Thruway Back Box - Impact Elite Quarter Sphere MA1257-XX=Thruway Back Box - Impact Elite Wedge	

DELIVERED LUMENS IS 4410 FOR 3000K, 80 CRI OPTION

- NOTES:**
- DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
  - Standard 4000K CCT and greater than 70 CRI. LightBARs for downlight use only.
  - 21 LED LightBAR powered by 350mA and 7 LED LightBAR powered by 1A.
  - Only for use with 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).
  - Custom and RAL color matching available upon request. Consult your lighting representative at Eaton for more information.
  - Low-level output varies by bar count. Consult factory. Not available with 347V or 480V. Available with two bars (E02 or F02) only.
  - Extended lead times apply.
  - Available with E02 or F02, only one bar on street side will be wired to sensor. Time delay factory setting 15-minutes. When ordered with PC option, both bars are connected to photocontrol as primary switching means. Standard sensor lens covers 8" mounting height, 360° coverage, maximum 48" diameter. Not available in all configurations or with BBB or CWB options.
  - Specify 120V or 277V. LED standard integral battery pack is rated for minimum operating temperature 32°F (0°C). Operates one bar for 90-minutes. Not available in all configurations or with OSB option. Consult factory.
  - Specify 120V or 277V. LED cold weather integral battery pack is rated for minimum operating temperature -4°F (-20°C). Operates one bar for 90-minutes. Not available in all configurations or with OSB option. Consult factory.
  - Replace XX with color suffix.



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## Photometric Report (Type C)

Filename: IST-E02-LED-E1-BL4-8030.ies  
[TEST] P139808 REPORT IS SCALED FROM IESNA LM-79-08  
TEST DATA (P33646)  
[TESTLAB] INNOVATIONS CENTER-P3  
[ISSUEDATE] 2/20/2015  
[MANUFAC] EATON - MCGRAW-EDISON (FORMER COOPER  
LIGHTING)  
[LUMCAT] IST-E02-LED-E1-BL4-8030  
[LUMINAIRE] IMPACT ELITE LED LUMINAIRE (2) LIGHTBARS  
WITH AccuLED OPTICS - TYPE 4 W/ BACK LIGHT CONTROL  
[LAMP] (42) 3000K CCT, 80 CRI LEDs

Maximum Candela = 3798.8 at 45 H 67.5 V

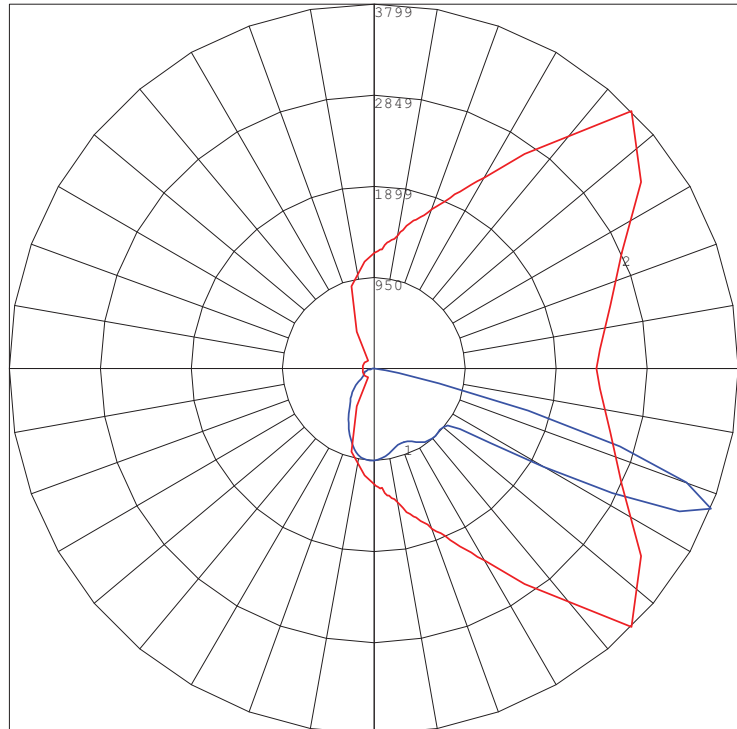
### Classification:

Road Classification: Type III, Short, N.A. (deprecated)  
Upward Wast Light Ratio: 0.00  
Luminaire Efficacy Rating (LER): 94  
Indoor Classification: Direct  
BUG Rating : B1-U0-G1

### Polar Candela Curves:

Vertical Plane Through:  
1) 45 - 225 Horizontal

Horizontal Cone Through:  
2) 67.5 Vertical





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## Photometric Report (Type C)

Filename: IST-E02-LED-E1-BL4-8030.ies  
[TEST] P139808 REPORT IS SCALED FROM IESNA LM-79-08  
TEST DATA (P33646)  
[TESTLAB] INNOVATIONS CENTER-P3  
[ISSUEDATE] 2/20/2015  
[MANUFAC] EATON - MCGRAW-EDISON (FORMER COOPER LIGHTING)  
[LUMCAT] IST-E02-LED-E1-BL4-8030  
[LUMINAIRE] IMPACT ELITE LED LUMINAIRE (2) LIGHTBARS  
WITH AccuLED OPTICS - TYPE 4 W/ BACK LIGHT CONTROL  
[LAMP] (42) 3000K CCT, 80 CRI LEDs

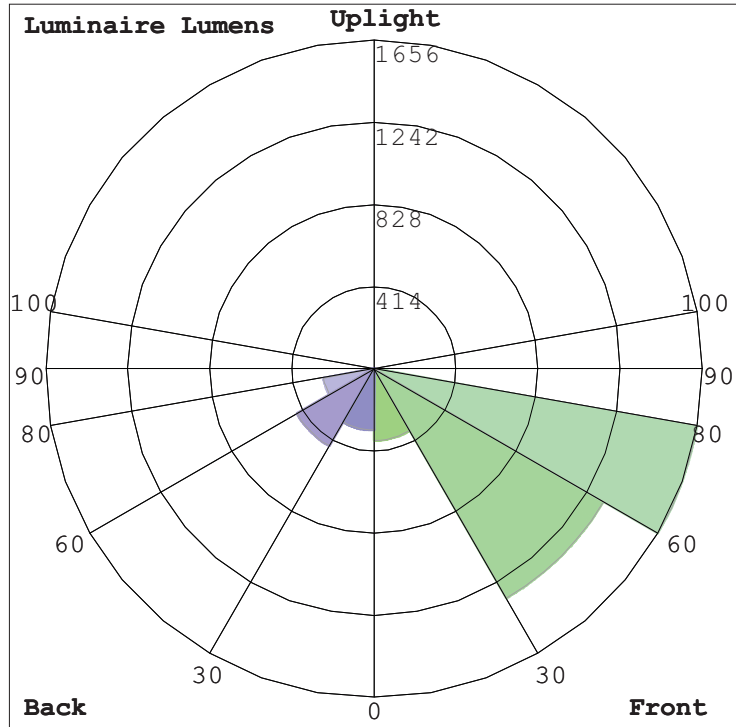
Maximum Candela = 3798.8 at 45 H 67.5 V

### Classification:

Road Classification: Type III, Short, N.A. (deprecated)  
Upward Waste Light Ratio: 0.00  
Luminaire Efficacy Rating (LER): 94  
Indoor Classification: Direct  
BUG Rating : B1-U0-G1

### LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	360.5	N.A.	8.2
FM (30-60)	1336.3	N.A.	30.3
FH (60-80)	1656.3	N.A.	37.6
FVH (80-90)	23.4	N.A.	0.5
BL (0-30)	309.8	N.A.	7.0
BM (30-60)	448.6	N.A.	10.2
BH (60-80)	259.0	N.A.	5.9
BVH (80-90)	16.1	N.A.	0.4
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	4410.0	N.A.	100.0
BUG Rating	B1-U0-G1		



## DESCRIPTION

Recessed 6-inch LED lens downlight is available in various distributions, lumen and CRI/CCT options. Suitable for commercial construction and can be used for both new or renovation work. Insulation must be kept 3" from top and sides of housing. Use for general area lighting where high efficiency and visual comfort are required.

Catalog #		Type
Project		F5
Comments		Date
Prepared by		

## SPECIFICATION FEATURES

### MECHANICAL

#### Frame

Boat shaped galvanized steel frame with adjustable plaster lip accommodates ceilings up to 1/2" - 2" thick. May be used for new construction or remodeling installations. Provided with (2) remodel clips to secure frame when installed from below the ceiling.

#### Mounting Brackets

Bar hanger receivers adjusts 2" vertically from above the ceiling or thru the aperture. Use with No Fuss™ bar hangers or with 1/2" EMT. Removable to facilitate installation from below the ceiling.

#### No Fuss™ Bar Hangers

Captive preinstalled bar hanger locks to tee grid with a screwdriver or pliers. Centering mechanism allows consistent positioning of fixtures.

### OPTICAL

#### LED Module

Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation. Available in 80 or 90 CRI minimum, accuracy within 3 SDCM provides color uniformity. See ordering information for available CRI / CCT options. Passive thermal management achieves L70 at 50,000 hours in non IC applications. Integral diffuse lens provides visual shielding. Integral connector allows quick connection to housing flex.

#### Reflector

One piece parabolic aluminum reflector provides cutoff for a visually comfortable optic. Attaches to LED module with (3) speed clamps minimizing light leaks to lens. Self-flanged standard with an optional white painted flange.

#### Trim Retention

Reflectors are retained with two torsion springs holding the flange tightly to the finished ceiling surface.

#### ELECTRICAL Junction Box

(6) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Listed for (12) #12 AWG (six in, six out) 90°C conductors and feed thru branch wiring.

#### Driver

Integral UNV 120 - 277V 50/60 Hz constant current driver provides noise free operation. For 347V input use Halo transformer H347 or H347200. Continuous, flicker-free dimming from 100% to 10% with leading or trailing edge phase cut at 120V or 0 -10V analog control.

#### Emergency Option

Provides 90 minutes of standby lighting meeting most life safety codes for egress lighting. Available with both integral or remote charge indicator and test switch.

### Compliance

- cULus listed for wet location
- cCSAus listed for wet location
- IP66 Ingress Protection Rated
- Insulation must be kept 3" from top and sides.
- Airtight per ASTM-E283.
- Optional City of Chicago environmental air (CCEA) marking for plenum applications.
- EMI/RFI emissions per FCC 47CFR Part 18 non-consumer limits.
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79-08.
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11.
- Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.
- ENERGY STAR® listed for commercial applications, reference database for current listings.



**PD610**  
**PD615**  
**PD620**  
**PD630**

**PDM6A**

**61V**

**1000, 1500,**  
**2000 & 3000**  
**Lumen Series**

**LED**  
**6-Inch Aperture**  
**Lens Downlight**

THD: ≤ 20%
PF: ≥ 0.90
T Ambient -30 - +40°C
Sound Rating ≤ 22dba

Lumens	1000 Series	
Input Voltage	120V	277V
Input Current	.103 A	.058 A
Input Power	12.1 W	13.2 W
Efficiency	88 LPW	88 LPW
Inrush Current	.048 A	.080 A

Lumens	1500 Series	
Input Voltage	120V	277V
Input Current	.146 A	.1 A
Input Power	17.1 W	17.9 W
Efficiency	87 LPW	87 LPW
Inrush Current	1.920 A	0.960 A

Lumens	2000 Series	
Input Voltage	120V	277V
Input Current	.175 A	.536 A
Input Power	20.78 W	21.06 W
Efficiency	89 LPW	89 LPW
Inrush Current	.064 A	.128 A

Lumens	3000 Series	
Input Voltage	120V	277V
Input Current	.299 A	.145 A
Input Power	35.72 W	36.4 W
Efficiency	82 LPW	82 LPW
Inrush Current	.096 A	.928 A



## ORDERING INFORMATION

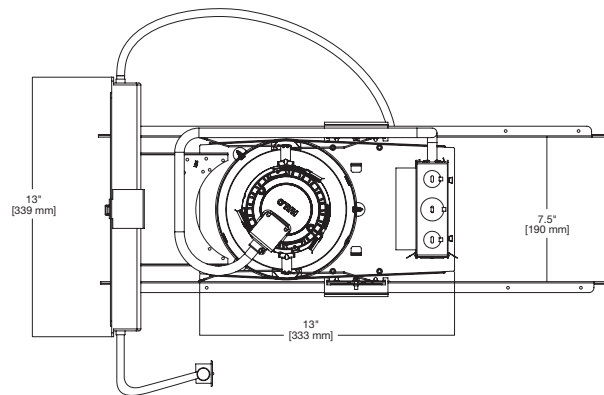
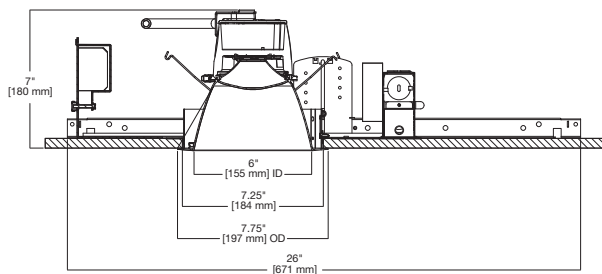
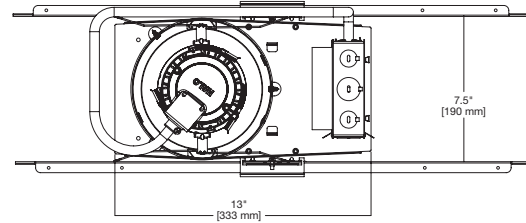
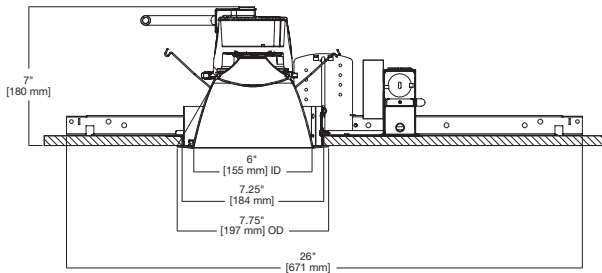
**SAMPLE NUMBER:** PD610ED010REM-PDM6A827-61VC

A complete luminaire consists of a housing, LED module and reflector, order separately.

Housing	Lumens	Driver	Options	LED Module	CRI/CCT
<b>PD6</b> = 6" aperture LED downlight <b>PD6CP</b> = 6" aperture LED downlight, CCEA listed for City of Chicago plenum requirements	<b>10</b> = 1,000 lumens (nominal) <b>15</b> = 1,500 lumens (nominal) <b>20</b> = 2,000 lumens (nominal)  <b>30</b> = 3,000 lumens (nominal)	<b>ED010</b> = 120-277V 50/60Hz, 0-10V and LE/TE phase cut dimming  <b>D010</b> = 120-277V 50/60Hz, 0-10V dimming (3,000 lumen only)	<b>REM</b> = Emergency operation with remote indicator and test switch  <b>IEM</b> = Emergency operation with integral indicator and test switch, 60 Hz only (REM and IEM options not available with PD6CP housing)	<b>PDM6A</b> = Downlight LED module for PD6 housing, provides 1,000, 1,500, 2,000, or 3,000 lumens (nominal) depending on connected housing type	<b>827</b> = 80 CRI, 2700K CCT <b>927</b> = 90 CRI, 2700K CCT <b>830</b> = 80 CRI, 3000K CCT <b>930</b> = 90 CRI, 3000K CCT <b>835</b> = 80 CRI, 3500K CCT <b>935</b> = 90 CRI, 3500K CCT <b>840</b> = 80 CRI, 4000K CCT <b>940</b> = 90 CRI, 4000K CCT

Reflector	Finish Option	Flange Option	Accessories
<b>61V</b> = 6" vertical parabolic reflector <b>61VEM</b> = 6" vertical parabolic reflector for IEM	<b>C</b> = Specular clear <b>G</b> = Specular gold <b>H</b> = Semi-specular clear <b>W</b> = White (white flange) <b>BB</b> = Black baffle (white flange) <b>WB</b> = White baffle (white flange)	<b>Blank</b> = Polished flange standard with C, G & H reflector finishes <b>Blank</b> = White flange standard with W, BB, & WB <b>WF</b> = White flange option available with C, G, & H reflector finishes	<b>HB128APK</b> = L channel hanger bar, 26", 'No-Fuss', pair (replacement) <b>RMB22</b> = 22" long wood joist mounting bars, pair <b>H347</b> = Step down transformer for 347V input <b>H347</b> = Step down transformer for 347V input, 75VA max <b>H347200</b> = Step down transformer for 347V input, 200VA max

## DIMENSIONS



## COMPLIANCE TABLE

### 1000 LUMEN

80 CRI																
Catalog #	PD610ED010- PDM6A827				PD610ED010- PDM6A830				PD610ED010- PDM6A835				PD610ED010- PDM6A840			
	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24
61VC	1032	77	ES	T24	1109	83	ES	T24	1177	88	ES	T24	1187	89	ES	T24
61VCWF	1005	75	ES	T24	1080	81	ES	T24	1146	86	ES	T24	1156	86	ES	T24
61VG	1003	75	ES	T24	1078	80	ES	T24	1144	85	ES	T24	1154	86	ES	T24
61VGWF	966	72	ES	T24	1039	78	ES	T24	1102	82	ES	T24	1111	83	ES	T24
61VH	924	69	ES	T24	993	74	ES	T24	1053	79	ES	T24	1062	79	ES	T24
61VHWF	921	69	ES	T24	990	74	ES	T24	1051	78	ES	T24	1060	79	ES	T24
61VW	960	72	ES	T24	1032	77	ES	T24	1095	82	ES	T24	1104	82	ES	T24
61VBB	897	67	ES	T24	964	72	ES	T24	1023	76	ES	T24	1031	77	ES	T24
61VWB	980	73	ES	T24	1053	79	ES	T24	1118	83	ES	T24	1127	84	ES	T24

90 CRI																
Catalog #	PD610ED010- PDM6A927				PD610ED010- PDM6A930				PD610ED010- PDM6A935				PD610ED010- PDM6A940			
	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24
61VC	795	59	ES	T24	853	64	ES	T24	917	68	ES	T24	1017	76	ES	T24
61VCWF	775	58	ES	T24	831	62	ES	T24	894	67	ES	T24	990	74	ES	T24
61VG	773	58	ES	T24	829	62	ES	T24	892	67	ES	T24	988	74	ES	T24
61VGWF	745	56	ES	T24	799	60	ES	T24	859	64	ES	T24	952	71	ES	T24
61VH	712	53	ES	T24	763	57	ES	T24	821	61	ES	T24	910	68	ES	T24
61VHWF	710	53	ES	T24	761	57	ES	T24	819	61	ES	T24	908	68	ES	T24
61VW	740	55	ES	T24	794	59	ES	T24	854	64	ES	T24	946	71	ES	T24
61VBB	691	52	ES	T24	741	55	ES	T24	797	59	ES	T24	884	66	ES	T24
61VWB	755	56	ES	T24	810	60	ES	T24	871	65	ES	T24	966	72	ES	T24

### 1500 LUMEN

80 CRI																
Catalog #	PD615ED010- PDM6A827				PD615ED010- PDM6A830				PD615ED010- PDM6A835				PD615ED010- PDM6A840			
	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24
61VC	1417	77	ES	T24	1523	82	ES	T24	1616	87	ES	T24	1630	88	ES	T24
61VCWF	1380	75	ES	T24	1483	80	ES	T24	1574	85	ES	T24	1587	86	ES	T24
61VG	1377	74	ES	T24	1480	80	ES	T24	1570	85	ES	T24	1584	86	ES	T24
61VGWF	1327	72	ES	T24	1426	77	ES	T24	1513	82	ES	T24	1526	82	ES	T24
61VH	1268	69	ES	T24	1363	74	ES	T24	1446	78	ES	T24	1458	79	ES	T24
61VHWF	1265	68	ES	T24	1359	73	ES	T24	1442	78	ES	T24	1455	79	ES	T24
61VW	1318	71	ES	T24	1417	77	ES	T24	1503	81	ES	T24	1516	82	ES	T24
61VBB	1231	67	ES	T24	1323	72	ES	T24	1404	76	ES	T24	1416	77	ES	T24
61VWB	1346	73	ES	T24	1446	78	ES	T24	1534	83	ES	T24	1548	84	ES	T24

90 CRI																
Catalog #	PD615ED010- PDM6A927				PD615ED010- PDM6A930				PD615ED010- PDM6A935				PD615ED010- PDM6A940			
	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24
61VC	1092	59	ES	T24	1171	63	ES	T24	1260	68	ES	T24	1396	75	ES	T24
61VCWF	1064	57	ES	T24	1141	62	ES	T24	1227	66	ES	T24	1360	74	ES	T24
61VG	1061	57	ES	T24	1138	62	ES	T24	1224	66	ES	T24	1357	73	ES	T24
61VGWF	1022	55	ES	T24	1096	59	ES	T24	1179	64	ES	T24	1307	71	ES	T24
61VH	977	53	ES	T24	1048	57	ES	T24	1127	61	ES	T24	1249	68	ES	T24
61VHWF	975	53	ES	T24	1045	57	ES	T24	1124	61	ES	T24	1246	67	ES	T24
61VW	1016	55	ES	T24	1090	59	ES	T24	1172	63	ES	T24	1299	70	ES	T24
61VBB	949	51	ES	T24	1018	55	ES	T24	1095	59	ES	T24	1213	66	ES	T24
61VWB	1037	56	ES	T24	1112	60	ES	T24	1196	65	ES	T24	1326	72	ES	T24

**ES** ES = ENERGY STAR® Compliant

**T24** T24 = Can be used to comply with California Title 24 Non-Residential

COMPLIANCE TABLE continued

2000 LUMEN

80 CRI																
Catalog #	PD620ED010- PDM6A827				PD620ED010- PDM6A830				PD620ED010- PDM6A835				PD620ED010- PDM6A840			
	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24
61VC	1724	78	ES	T24	1853	84	ES	T24	1966	89	ES	T24	1983	90	ES	T24
61VCWF	1679	76	ES	T24	1805	82	ES	T24	1915	87	ES	T24	1931	88	ES	T24
61VG	1675	76	ES	T24	1801	82	ES	T24	1910	87	ES	T24	1927	88	ES	T24
61VGWF	1614	73	ES	T24	1735	79	ES	T24	1841	84	ES	T24	1856	84	ES	T24
61VH	1543	70	ES	T24	1658	75	ES	T24	1759	80	ES	T24	1774	81	ES	T24
61VHWF	1539	70	ES	T24	1654	75	ES	T24	1755	80	ES	T24	1770	80	ES	T24
61VW	1604	73	ES	T24	1724	78	ES	T24	1829	83	ES	T24	1845	84	ES	T24
61VBB	1498	68	ES	T24	1610	73	ES	T24	1708	78	ES	T24	1723	78	ES	T24
61VWB	1637	74	ES	T24	1759	80	ES	T24	1867	85	ES	T24	1883	86	ES	T24

90 CRI																
Catalog #	PD620ED010- PDM6A927				PD620ED010- PDM6A930				PD620ED010- PDM6A935				PD620ED010- PDM6A940			
	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24
61VC	1328	60	ES	T24	1425	65	ES	T24	1532	70	ES	T24	1698	77	ES	T24
61VCWF	1294	59	ES	T24	1388	63	ES	T24	1493	68	ES	T24	1654	75	ES	T24
61VG	1291	59	ES	T24	1385	63	ES	T24	1489	68	ES	T24	1651	75	ES	T24
61VGWF	1244	57	ES	T24	1334	61	ES	T24	1435	65	ES	T24	1590	72	ES	T24
61VH	1189	54	ES	T24	1275	58	ES	T24	1371	62	ES	T24	1520	69	ES	T24
61VHWF	1186	54	ES	T24	1272	58	ES	T24	1368	62	ES	T24	1516	69	ES	T24
61VW	1236	56	ES	T24	1325	60	ES	T24	1426	65	ES	T24	1580	72	ES	T24
61VBB	1154	52	ES	T24	1238	56	ES	T24	1332	61	ES	T24	1476	67	ES	T24
61VWB	1262	57	ES	T24	1353	61	ES	T24	1455	66	ES	T24	1613	73	ES	T24

3000 LUMEN

80 CRI																
Catalog #	PD630D010- PDM6A827				PD630D010- PDM6A830				PD630D010- PDM6A835				PD630D010- PDM6A840			
	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24
61VC	2576	72	ES	T24	2768	78	ES	T24	2937	82	ES	T24	2963	83	ES	T24
61VCWF	2509	70	ES	T24	2697	76	ES	T24	2861	80	ES	T24	2886	81	ES	T24
61VG	2503	70	ES	T24	2691	75	ES	T24	2855	80	ES	T24	2879	81	ES	T24
61VGWF	2412	68	ES	T24	2592	73	ES	T24	2750	77	ES	T24	2774	78	ES	T24
61VH	2305	65	ES	T24	2477	69	ES	T24	2629	74	ES	T24	2651	74	ES	T24
61VHWF	2299	64	ES	T24	2471	69	ES	T24	2622	73	ES	T24	2645	74	ES	T24
61VW	2397	67	ES	T24	2576	72	ES	T24	2733	77	ES	T24	2757	77	ES	T24
61VBB	2238	63	ES	T24	2406	67	ES	T24	2553	72	ES	T24	2575	72	ES	T24
61VWB	2446	69	ES	T24	2629	74	ES	T24	2790	78	ES	T24	2814	79	ES	T24

90 CRI																
Catalog #	PD630D010- PDM6A927				PD630D010- PDM6A930				PD630D010- PDM6A935				PD630D010- PDM6A940			
	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24	LUMENS	LPW	ES	T24
61VC	1985	56	ES	T24	2129	60	ES	T24	2290	64	ES	T24	2538	71	ES	T24
61VCWF	1934	54	ES	T24	2074	58	ES	T24	2231	62	ES	T24	2472	69	ES	T24
61VG	1929	54	ES	T24	2069	58	ES	T24	2226	62	ES	T24	2466	69	ES	T24
61VGWF	1859	52	ES	T24	1993	56	ES	T24	2144	60	ES	T24	2376	67	ES	T24
61VH	1776	50	ES	T24	1905	53	ES	T24	2049	57	ES	T24	2271	64	ES	T24
61VHWF	1772	50	ES	T24	1900	53	ES	T24	2044	57	ES	T24	2265	63	ES	T24
61VW	1847	52	ES	T24	1981	55	ES	T24	2131	60	ES	T24	2361	66	ES	T24
61VBB	1725	48	ES	T24	1850	52	ES	T24	1990	56	ES	T24	2205	62	ES	T24
61VWB	1885	53	ES	T24	2022	57	ES	T24	2175	61	ES	T24	2410	68	ES	T24

**ES** ES = ENERGY STAR® Compliant

**T24** T24 = Can be used to comply with California Title 24 Non-Residential

## PHOTOMETRY - 1000 lumen / 80 CRI

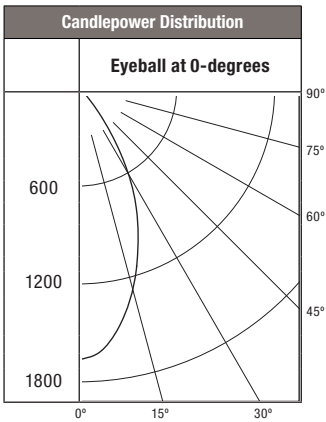
PD610ED010- PDM6A835-61VC

Spacing Criteria = 0.76

Lumens per Watt = 97.3 Lm/W

Test No. P137037

Test Model: PD610ED010- PDM6A835-61VC



Scaling factor for the Battery back up:

- 1000 Lumen = 0.55
- 1500 Lumen = 0.40
- 2000 Lumen = 0.33
- 3000 Lumen = 0.22

Candela Distribution	
Degrees Vertical	Candela
0*	1665
5	1614
10	1469
20	1057
30	609
40	166
50	18
60	3
70	1
80	0
90	0

\*CBCP

Luminance	
(Average Candela/M <sup>2</sup> )	
Degree	Avg. 0° Luminance
45	4791
55	497
65	221
75	191
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5	55.1	4	4
7	34	5.2	5.2
8	26	6	6
9	20.6	6.8	6.8
10	16.7	7.6	7.6
12	11.6	9	9

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot. Footcandle values are initial, apply appropriate light loss factors where necessary.

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	886	75.3
0-40	1113	94.6
0-60	1175	99.8
0-90	1177	100

## PHOTOMETRY - 1000 lumen / 90 CRI

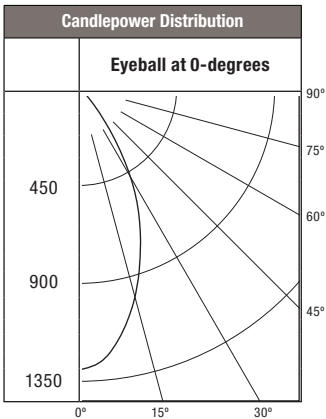
PD610ED010- PDM6A935-61VC

Spacing Criteria = 0.76

Lumens per Watt = 75.8 Lm/W

Test No. P137041

Test Model: PD610ED010- PDM6A935-61VC



Scaling factor for the Battery back up:

- 1000 Lumen = 0.55
- 1500 Lumen = 0.40
- 2000 Lumen = 0.33
- 3000 Lumen = 0.22

Candela Distribution	
Degrees Vertical	Candela
0*	1298
5	1258
10	1146
20	824
30	475
40	130
50	14
60	2
70	1
80	0
90	0

\*CBCP

Luminance	
(Average Candela/M <sup>2</sup> )	
Degree	Avg. 0° Luminance
45	3737
55	392
65	182
75	148
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5'	52	4.4	4.4
7'	32.1	5.8	5.8
8'	24.6	6.6	6.6
9'	19.4	7.4	7.4
10'	15.7	8.2	8.2
12'	10.9	10	10

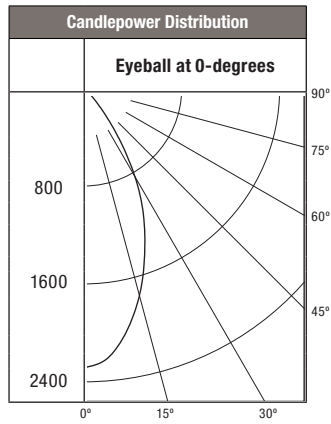
Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot. Footcandle values are initial, apply appropriate light loss factors where necessary.

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	691	75.3
0-40	868	94.6
0-60	916	99.8
0-90	917	100



## PHOTOMETRY - 1500 lumen / 80 CRI

**PD615ED010- PDM6A835-61VC**  
Spacing Criteria = 0.76  
Lumens per Watt = 87.3 Lm/W  
Test No. P166938  
Test Model: PD615ED010- PDM6A835-61VC



Candela Distribution	
Degrees Vertical	Candela
0*	2287
5	2216
10	2018
20	1452
30	836
40	228
50	25
60	4
70	1
80	0
90	0

\*CBCP

Luminance	
(Average Candela/M <sup>2</sup> )	
Degree	Avg. 0° Luminance
45	6582
55	688
65	311
75	254
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5	75.6	4	4
7	46.7	5.2	5.2
8	35.7	6	6
9	28.2	6.8	6.8
10	22.9	7.6	7.6
12	15.9	9	9

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot. Footcandle values are initial, apply appropriate light loss factors where necessary.

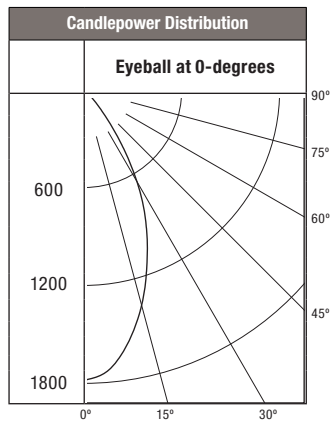
Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	1217	75.3
0-40	1529	94.6
0-60	1613	99.8
0-90	1616	100

Scaling factor for the Battery back up:

- 1000 Lumen = 0.55
- 1500 Lumen = 0.40
- 2000 Lumen = 0.33
- 3000 Lumen = 0.22

## PHOTOMETRY - 1500 lumen / 90 CRI

**PD615ED010- PDM6A935-61VC**  
Spacing Criteria = 0.76  
Lumens per Watt = 68.1 Lm/W  
Test No. P166942  
Test Model: PD615ED010- PDM6A935-61VC



Candela Distribution	
Degrees Vertical	Candela
0*	1783
5	1728
10	1573
20	1132
30	652
40	178
50	20
60	3
70	1
80	0
90	0

\*CBCP

Luminance	
(Average Candela/M <sup>2</sup> )	
Degree	Avg. 0° Luminance
45	5132
55	535
65	246
75	191
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5	58.9	4	4
7	36.4	5.2	5.2
8	27.9	6	6
9	22	6.8	6.8
10	17.8	7.6	7.6
12	12.4	9	9

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot. Footcandle values are initial, apply appropriate light loss factors where necessary.

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	948	75.3
0-40	1192	94.6
0-60	1257	99.8
0-90	1260	100

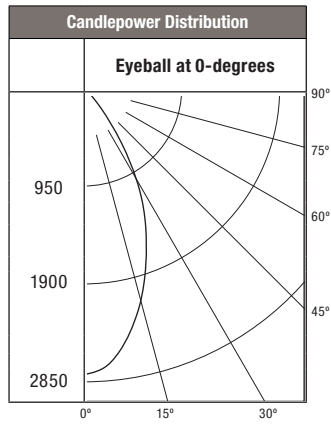
Scaling factor for the Battery back up:

- 1000 Lumen = 0.55
- 1500 Lumen = 0.40
- 2000 Lumen = 0.33
- 3000 Lumen = 0.22

## PHOTOMETRY - 2000 lumen / 80 CRI

**PD620ED010- PDM6A835-61VC**

Spacing Criteria = 0.76  
Lumens per Watt = 89.4 Lm/W  
Test No. P137021  
Test Model: PD620ED010- PDM6A835-61VC



Candela Distribution	
Degrees Vertical	Candela
0*	2782
5	2696
10	2454
20	1766
30	1017
40	278
50	31
60	4
70	2
80	0
90	0

\*CBCP

Luminance	
(Average Candela/M <sup>2</sup> )	
Degree	Avg. 0° Luminance
45	8009
55	832
65	376
75	318
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5	92	4	4
7	56.8	5.2	5.2
8	43.5	6	6
9	34.3	6.8	6.8
10	27.8	7.6	7.6
12	19.3	9	9

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot. Footcandle values are initial, apply appropriate light loss factors where necessary.

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	1480	75.3
0-40	1860	94.6
0-60	1962	99.8
0-90	1966	100

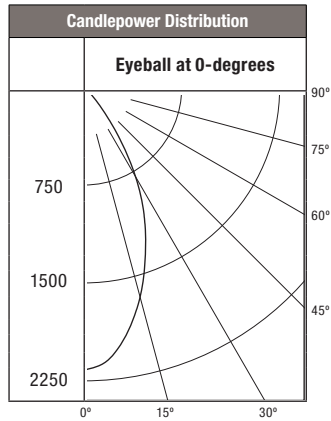
Scaling factor for the Battery back up:

- 1000 Lumen = 0.55
- 1500 Lumen = 0.40
- 2000 Lumen = 0.33
- 3000 Lumen = 0.22

## PHOTOMETRY - 2000 lumen / 90 CRI

**PD620ED010- PDM6A935-61VC**

Spacing Criteria = 0.76  
Lumens per Watt = 69.7 Lm/W  
Test No. P137025  
Test Model: PD620ED010- PDM6A935-61VC



Candela Distribution	
Degrees Vertical	Candela
0*	2168
5	2102
10	1913
20	1377
30	793
40	217
50	24
60	3
70	1
80	0
90	0

\*CBCP

Luminance	
(Average Candela/M <sup>2</sup> )	
Degree	Avg. 0° Luminance
45	6241
55	650
65	298
75	233
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5	71.7	4	4
7	44.3	5.2	5.2
8	33.9	6	6
9	26.8	6.8	6.8
10	21.7	7.6	7.6
12	15.1	9	9

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot. Footcandle values are initial, apply appropriate light loss factors where necessary.

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	1154	75.3
0-40	1450	94.6
0-60	1530	99.8
0-90	1532	100

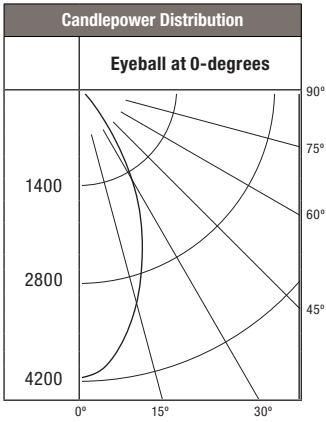
Scaling factor for the Battery back up:

- 1000 Lumen = 0.55
- 1500 Lumen = 0.40
- 2000 Lumen = 0.33
- 3000 Lumen = 0.22

## PHOTOMETRY - 3000 lumen / 80 CRI

PD630ED010- PDM6A835-61VC

Spacing Criteria = 0.76  
Lumens per Watt = 82.3 Lm/W  
Test No. P137053  
Test Model: PD630ED010- PDM6A835-61VC



Candela Distribution	
Degrees Vertical	Candela
0*	4157
5	4028
10	3668
20	2639
30	1520
40	415
50	46
60	6
70	2
80	0
90	0

\*CBCP

Luminance	
(Average Candela/M <sup>2</sup> )	
Degree	Avg. 0° Luminance
45	11970
55	1242
65	558
75	466
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5	137.4	4	4
7	84.8	5.2	5.2
8	65	6	6
9	51.3	6.8	6.8
10	41.6	7.6	7.6
12	28.9	9	9

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot. Footcandle values are initial, apply appropriate light loss factors where necessary.

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	2212	75.3
0-40	2779	94.6
0-60	2932	99.8
0-90	2937	100

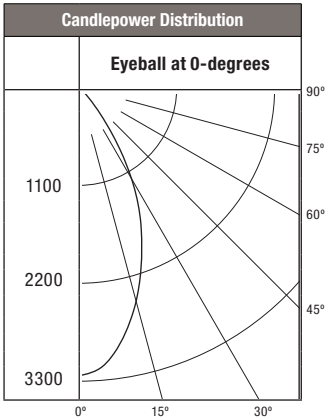
Scaling factor for the Battery back up:

- 1000 Lumen = 0.55
- 1500 Lumen = 0.40
- 2000 Lumen = 0.33
- 3000 Lumen = 0.22

## PHOTOMETRY - 3000 lumen / 90 CRI

PD630ED010- PDM6A935-61VC

Spacing Criteria = 0.76  
Lumens per Watt = 64.1 Lm/W  
Test No. P137057  
Test Model: PD630ED010- PDM6A935-61VC



Candela Distribution	
Degrees Vertical	Candela
0*	3240
5	3140
10	2859
20	2058
30	1185
40	324
50	36
60	5
70	2
80	0
90	0

\*CBCP

Luminance	
(Average Candela/M <sup>2</sup> )	
Degree	Avg. 0° Luminance
45	9327
55	975
65	441
75	360
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5	107.1	4	4
7	66.1	5.2	5.2
8	50.6	6	6
9	40	6.8	6.8
10	32.4	7.6	7.6
12	22.5	9	9

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot. Footcandle values are initial, apply appropriate light loss factors where necessary.

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	1724	75.3
0-40	2166	94.6
0-60	2286	99.8
0-90	2290	100

Scaling factor for the Battery back up:

- 1000 Lumen = 0.55
- 1500 Lumen = 0.40
- 2000 Lumen = 0.33
- 3000 Lumen = 0.22



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## Photometric Report (Type C)

Filename: PD610ED010- PDM6A830-61VH.ies  
[TEST] P137228 TEST IS SCALED FROM IESNA LM-79-08 TEST  
DATA (P25143)  
[TESTLAB] INNOVATIONS CENTER-P2  
[ISSUE DATE] 2/6/2015  
[MANUFAC] EATON - HALO COMMERCIAL (FORMER COOPER  
LIGHTING)  
[LUMCAT] PD610ED010- PDM6A830-61VH  
[LUMINAIRE] HALO COMMERCIAL 6 INCH RECESSED LED  
DOWNLIGHT WITH SEMI SPECULAR CLEAR FINISH REFLECTOR  
[LAMP] (1) HIGH LUMEN LED 80CRI / 3000K CCT

Maximum Candela = 1064.7 at 0 H 0 V

### Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)  
Upward Wast Light Ratio: 0.00  
Luminaire Efficacy Rating (LER): 82  
Indoor Classification: Direct  
BUG Rating : B1-U0-G0

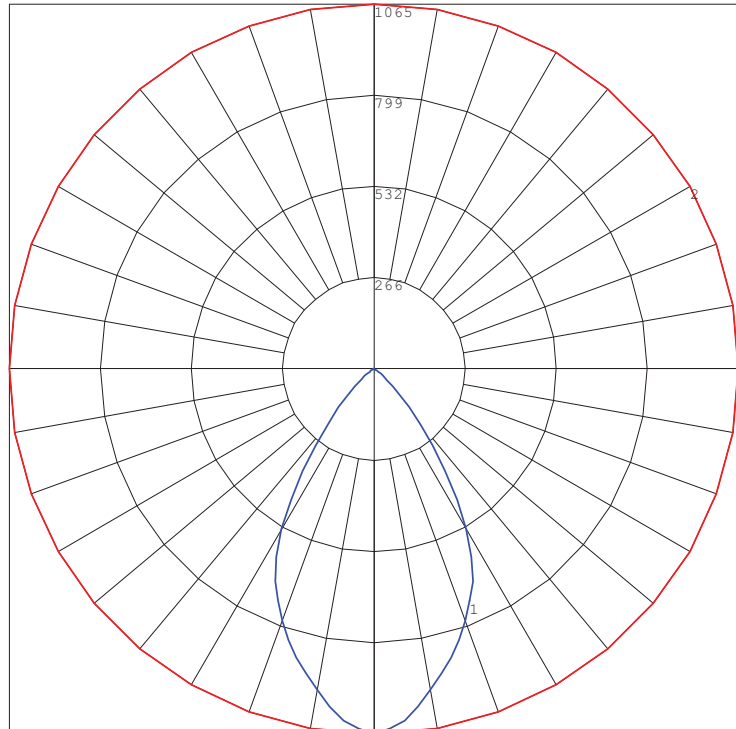
### Polar Candela Curves:

Vertical Plane Through:

1) 0 - 180 Horizontal

Horizontal Cone Through:

2) 0 Vertical







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## Photometric Report (Type C)

Filename: PD610ED010- PDM6A830-61VH.ies  
[TEST] P137228 TEST IS SCALED FROM IESNA LM-79-08 TEST  
DATA (P25143)  
[TESTLAB] INNOVATIONS CENTER-P2  
[ISSUE DATE] 2/6/2015  
[MANUFAC] EATON - HALO COMMERCIAL (FORMER COOPER  
LIGHTING)  
[LUMCAT] PD610ED010- PDM6A830-61VH  
[LUMINAIRE] HALO COMMERCIAL 6 INCH RECESSED LED  
DOWNLIGHT WITH SEMI SPECULAR CLEAR FINISH REFLECTOR  
[LAMP] (1) HIGH LUMEN LED 80CRI / 3000K CCT

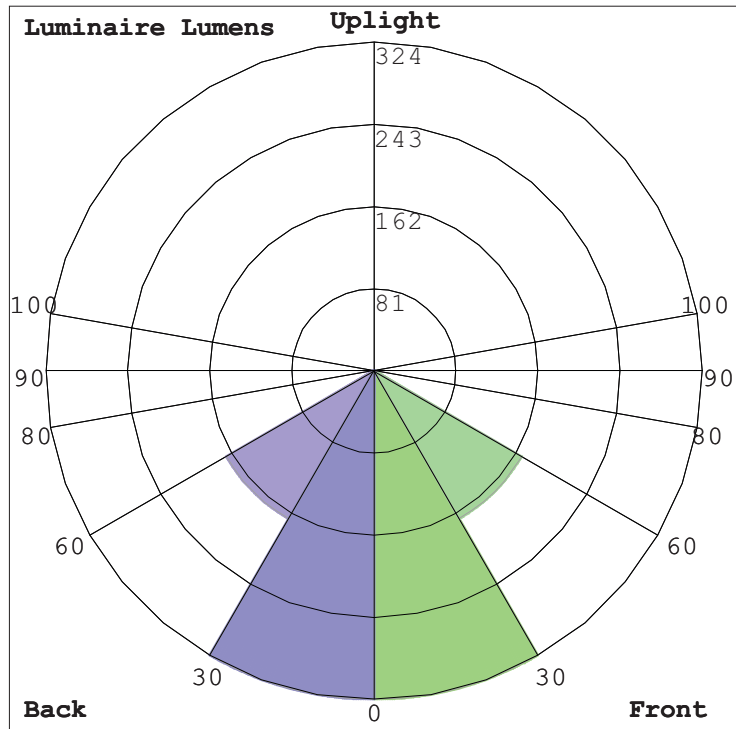
Maximum Candela = 1064.7 at 0 H 0 V

### Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)  
Upward Waste Light Ratio: 0.00  
Luminaire Efficacy Rating (LER): 82  
Indoor Classification: Direct  
BUG Rating : B1-U0-G0

### LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	324.4	N.A.	32.7
FM (30-60)	168.6	N.A.	17.0
FH (60-80)	3.2	N.A.	0.3
FVH (80-90)	0.1	N.A.	0.0
BL (0-30)	324.4	N.A.	32.7
BM (30-60)	168.6	N.A.	17.0
BH (60-80)	3.2	N.A.	0.3
BVH (80-90)	0.1	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	992.6	N.A.	100.0
BUG Rating	B1-U0-G0		





Date:		Approved:
Type:	F6	
Fixture:		
Project:		

## FCSL550 Series

Exterior Die-Cast Mini Step Light with Die-Cast or 316 Stainless Steel Faceplate.



## ORDERING



75 pcs or Less / ships in 2 weeks

EXAMPLE: FCSL550-120V-4K-95-SL

SERIES	VOLTAGE	SOURCE/TEMPERATURE/LAMP	FINISH	ACCESSORIES
FCSL550	120V	LED 3K 95 Lumens min (2W)	BK Black	EC E-Coat (on SL550 only)
FCSL552	277V	4K 190 Lumens min (3W)	BZ Bronze	
FCSL553	347V <sup>△</sup>		CC Custom Color	
			SL Silver	
			WH White	
			SS Stainless Steel ▲	

<sup>△</sup> contact factory

▲ SL552 & SL553 only

## SPECIFICATION

### MOUNTING

- Concrete pour standard.

### CONSTRUCTION

- Marine grade, corrosion resistant, heavy walled, high pressure die-cast aluminum construction.
- Clear (FCSL550) or opal, tempered lens.
- 316 stainless steel (FCSL552, FCSL553 - opal lens standard).
- Precision formed semi-specular aluminum reflector.
- Neoprene continuous closed cell urethane 'O' ring gasket. Captive stainless steel, tamper resistant hex socket screws.

### LED

- Lumens stated are the minimum delivered out of the luminaire. LED lifetime is greater than or equal to 70,000 hours with the lumen depreciation greater than L70. All of our luminaires are tested to LM 80 with a minimum CRI of 80 and color consistency of step 4 MacAdam Ellipse. Integral power supply standard. Input voltage 120V or 277V. Consult factory for non-white static color LED options; Red, Green, Blue or Amber.

### FINISH

- Six stage chemical pre-treatment process that includes iron phosphate, to prepare the substrate for a UV stable, super durable standard polyester powder coat. Optional e-coat process is added to the standard finish including zinc phosphate for a 5 year limited warranty on the finish. Brushed 316 stainless steel faceplate (FCSL552, FCSL553 only).

### ELECTRICAL

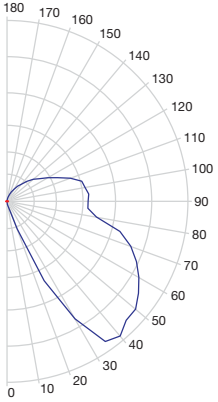
- Ballast** UL listed electronic driver standard with 5 year manufacturers warranty.

### LISTING

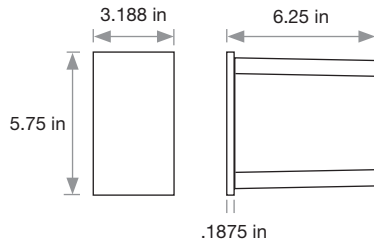
- UL & cUL listed for interior and exterior wet locations. IP65 rating.

## PHOTOMETRY

### FCSL550



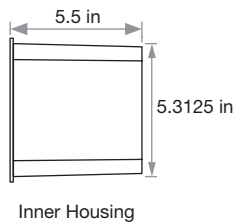
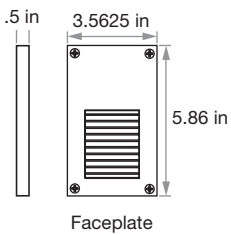
## PVC - DIMENSIONS



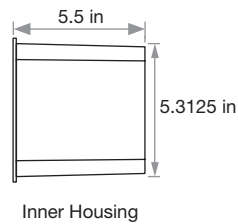
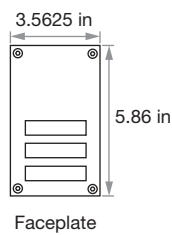
PVC Outer Housing

## DIMENSIONS

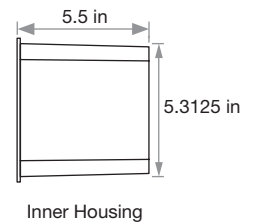
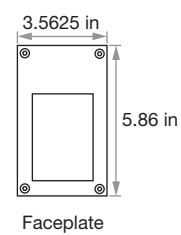
### FCSL550



### FCSL552



### FCSL553





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## Photometric Report (Type C)

Filename: FCSSL550-LED.IES  
[ISSUEDATE] 6-5-2009  
[MANUFAC] FC LIGHTING  
[LUMCAT] FCSSL550 LED-5W  
[LUMINAIRE] FCSSL550 STEP LIGHT

Maximum Candela = 81.647998175025 at 0 H 45 V

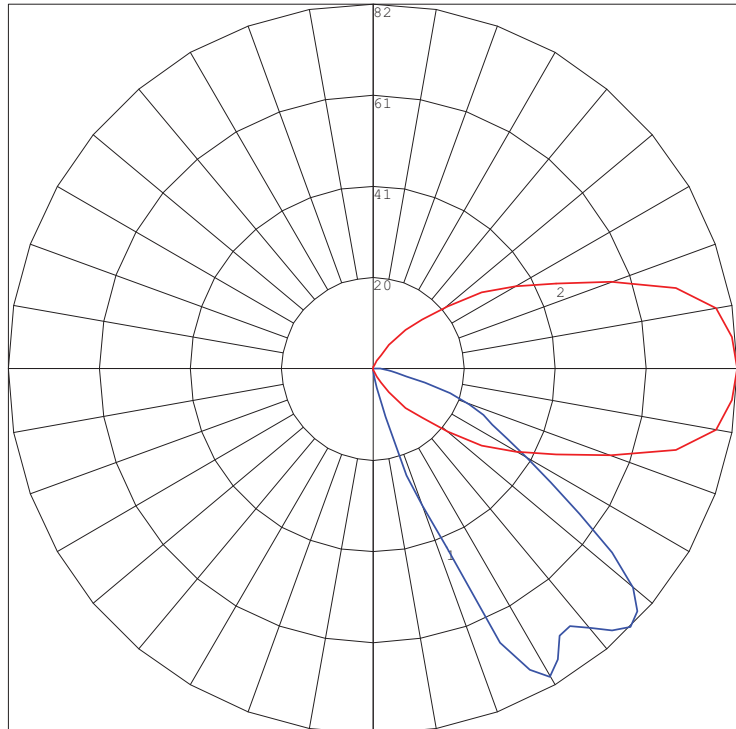
### Classification:

Road Classification: Type II, Very Short, Cutoff (deprecated)  
Upward Wast Light Ratio: 0.01  
Luminaire Efficacy Rating (LER): 22  
Indoor Classification: Direct  
BUG Rating : B0-U1-G0

### Polar Candela Curves:

Vertical Plane Through:  
1) 0 - 180 Horizontal

Horizontal Cone Through:  
2) 45 Vertical





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## Photometric Report (Type C)

Filename: FCSSL550-LED.IES  
[ISSUEDATE] 6-5-2009  
[MANUFAC] FC LIGHTING  
[LUMCAT] FCSSL550 LED-5W  
[LUMINAIRE] FCSSL550 STEP LIGHT

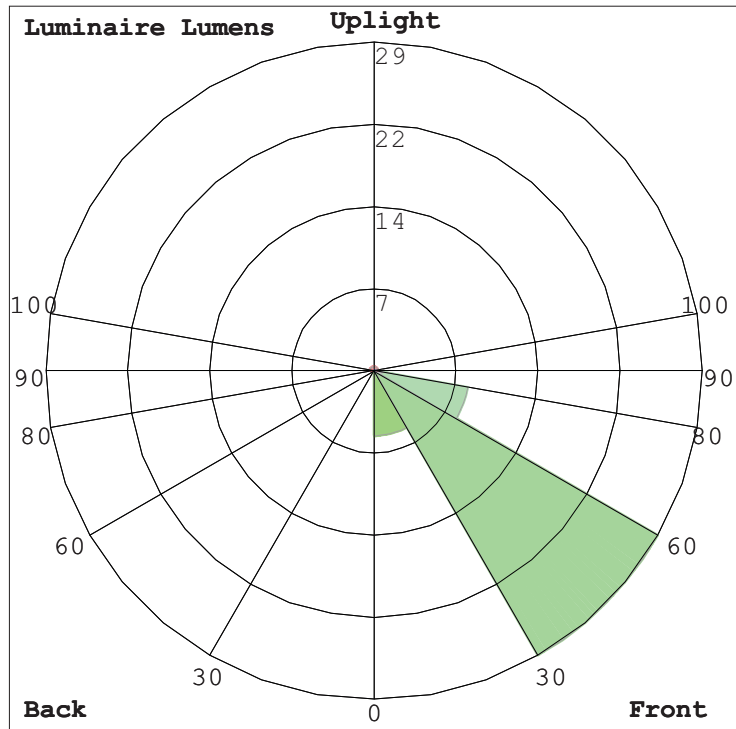
Maximum Candela = 81.647998175025 at 0 H 45 V

### Classification:

Road Classification: Type II, Very Short, Cutoff (deprecated)  
Upward Waste Light Ratio: 0.01  
Luminaire Efficacy Rating (LER): 22  
Indoor Classification: Direct  
BUG Rating : B0-U1-G0

### LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	5.7	2.4	12.9
FM (30-60)	29.0	12.1	65.3
FH (60-80)	8.4	3.5	18.9
FVH (80-90)	0.7	0.3	1.7
BL (0-30)	< 0.05	0.0	0.0
BM (30-60)	< 0.05	0.0	0.0
BH (60-80)	< 0.05	0.0	0.0
BVH (80-90)	< 0.05	0.0	0.0
UL (90-100)	0.2	0.1	0.4
UH (100-180)	0.4	0.2	0.8
Total	44.4	18.6	100.0
BUG Rating	B0-U1-G0		





# eCOVELINE XL WET



The **eCOVELINE XL WET** is a powerful and versatile interior / exterior cove luminaire. **eCOVELINE XL WET** comes in a 1 ft, 4 ft or 6 ft nominal lengths and 24K, 27K, 3K, 35K or 4K color temperatures. The housing is constructed of extruded aluminum with tooled end caps and is IP66 rated for interior & exterior use. Features IP68 line voltage Plug N' Play connectors for easy installation. Power supply is integral, no remote driver required. Universal orientation fixture; up, down, horizontal or vertical positioning and 2 optical solutions. Flicker free dimmable to 3% full brightness ELV trailing edge dimming.

## SPECIFICATION

color temperature	2400K (consult factory)	2700K	3000K	4000K
beam spread	30° x 80° - 120°			
lumen output		530 per foot	538 per foot	555 per foot (35K also)
LEDs per foot	14			
color consistency	3-step MacAdam Ellipse / CRI ≥ 84			
lifetime	> 70,000 hours / L70 or better			
input voltage	Universal 120-277V AC			
power consumption	6W per foot			
dimensions [ L x W x H ]	12.25" x 1.77" x 1.9"	47" x 1.77" x 1.9"	70.25" x 1.77" x 1.9"	
weight	1.3 lbs. per foot			
housing	extruded aluminum housing with tooled end caps			
lens	etched polycarbonate			
mounting	surface mounting with (+/- 15°), Adjustable Bracket (80°/15° Bi-directional)			
operating temperature	-10°C to 40°C			
junction temperature	66°C @ T <sup>a</sup> 25°C			
interface	dimmable to 3% full brightness, (ELV) electronic low-voltage trailing edge, synchronized w/ soft shut-off			
power supply	integral Class II, electronic high-power factor >94%			
certification	ETL / cETL or CE			
standards	UL-Class I / IES LM-79 / LM-80			
environment	wet, exterior location / IP66 (Connectors IP68)			
warranty	5 year limited warranty (refer to website for details)			

Due to continuous development and improvements, specifications are subject to change without notice.

## CATALOG NUMBER

ECVLXWET		length		temperature		optics		accessories	
model									
<b>ECVLXWET</b> eCOVELINE XL WET	<b>1</b>	305 mm [ 12 in. ]	<b>24K</b>	2400K **	<b>3080</b>	30° x 80° beam	<b>BL</b>	Black Louvre	
	<b>4</b>	1189 mm [ 46.8 in. ]	<b>27K</b>	2700K	<b>120</b>	120° x 120° beam	<b>ADB</b>	Adjustable Bracket (80°/15° Bi-directional)	
	<b>6</b>	1778 mm [ 70 in. ]	<b>3K</b>	3000K			<b>ADB90</b>	Adjustable Bracket Angle 90°	
			<b>35K</b>	3500K **			<b>BEA</b>	Bracket Extension Arm (Up to 18")	
			<b>4K</b>	4000K			<b>SC10W</b>	10 ft. Starter Connection Cord	
							<b>TCAPW</b>	Terminator Cap	
							<b>EC12W</b>	12 in. Extension Cord	
							<b>EC24W</b>	24 in. Extension Cord	
							<b>EC60W</b>	60 in. Extension Cord	

\*\* Consult factory (minimum order quantity)

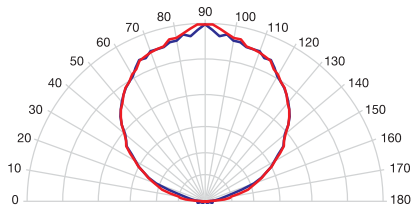
**REQUIRED:** Starter Cable (SC10W) and Terminator Cap (TCAPW) for every run.  
**Maximum Run Length = 100 feet**

**PHOTOMETRY**

**ECVLXWET-1-120-4K-120°**

**Zonal Lumen Summary**

**Illuminance at a Distance**



Zone	Lumens	% Luminaire
0-30	140	25%
0-40	233	42%
0-60	418	75%
60-90	130	24%
0-90	548	99%
90-180	7	1%
0-180	555	100%

	center beam fc	beam width	
8 ft	3 fc	25 ft	25 ft
4 ft	12 fc	12 ft	13 ft
1ft	189 fc	3 ft	3 ft

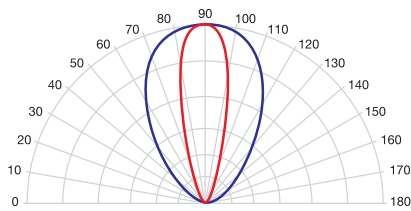
— beam spread: 115°

Efficiency Total: 98%

**ECVLXWET-1-120-4K-30°x 80°**

**Zonal Lumen Summary**

**Illuminance at a Distance**



Zone	Lumens	% Luminaire
0-30	378	67%
0-40	477	85%
0-60	545	97%
60-90	14	3%
0-90	560	99%
90-180	1	1%
0-180	561	100%

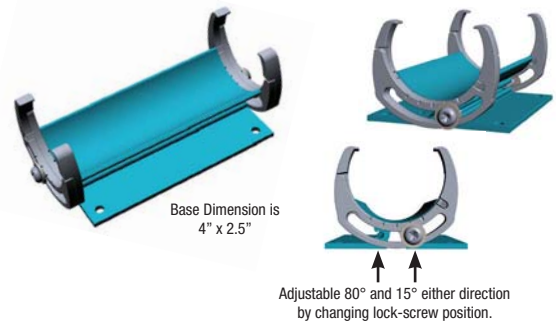
	center beam fc	beam width	
8 ft	11 fc	6 ft	9 ft
4 ft	47 fc	3 ft	5 ft
1ft	747 fc	1 ft	1 ft

Efficiency Total: 99%

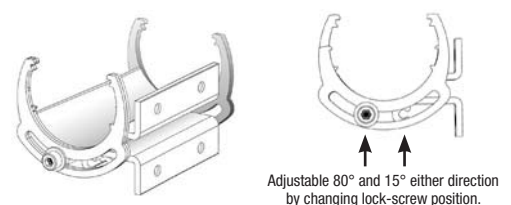
**PERFORMANCE**

Model	Connected Wattage	Delivered Lumens		
		2700K	3000K	4000K
ECVLXWET-1	6	530	538	555
ECVLXWET-4	24	2120	2152	2220
ECVLXWET-6	36	3180	3228	3330

**ADJUSTABLE BRACKET (ADB)**

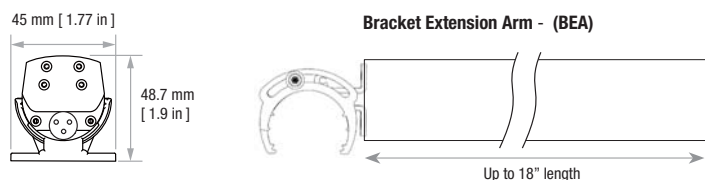
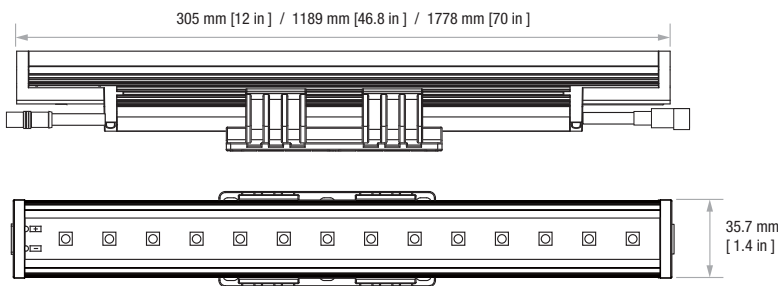


**ADJUSTABLE BRACKET 90° (ADB90)**



**DIMENSIONS**

Available in 4 lengths





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## Photometric Report (Type C)

Filename: SSL-eCOVELINE XL WET-3K-1FT-120DEG.IES  
[TESTLAB] EVERLIGHT  
[ISSUEDATE] 2013-11-27  
[MANUFAC] SSL  
[LUMCAT] SSL eCOVELINE XL WET 1FT 3000K 120 DEGREE  
[LUMINAIRE] 1' LINEAR eCOVELINE XL WET FIXTURE W/ 120  
DEGREE OPTIC  
[LAMP] LM 80 DIODES 3000K

Maximum Candela = 147.629884711504 at 0 H 11 V

### Classification:

Road Classification: Type VS, Very Short, Cutoff (deprecated)  
Upward Wast Light Ratio: 0.04  
Luminaire Efficacy Rating (LER): 69  
Indoor Classification: Direct  
BUG Rating : B0-U1-G0

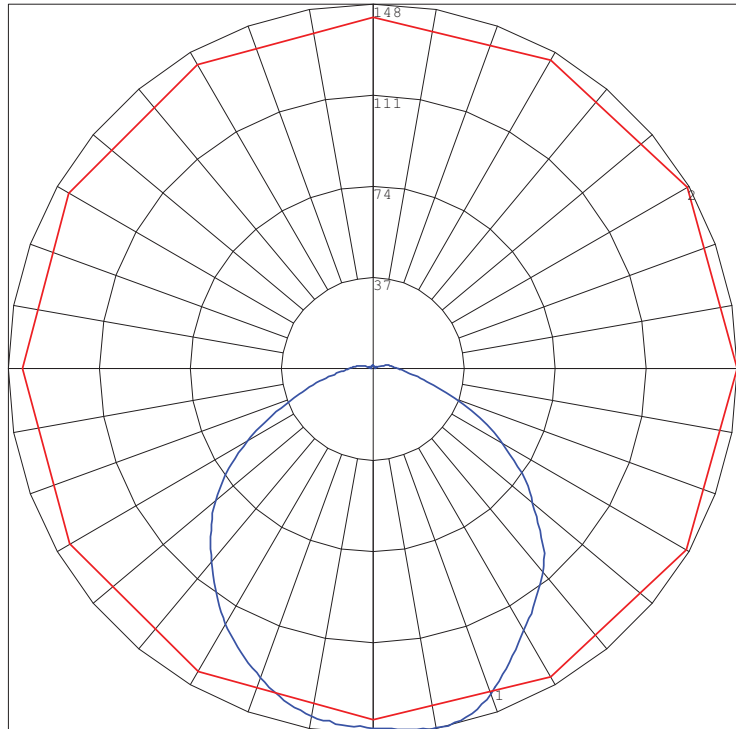
### Polar Candela Curves:

Vertical Plane Through:

1) 0 - 180 Horizontal

Horizontal Cone Through:

2) 11 Vertical





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## Photometric Report (Type C)

Filename: SSL-eCOVELINE XL WET-3K-1FT-120DEG.IES  
[TESTLAB] EVERLIGHT  
[ISSUEDATE] 2013-11-27  
[MANUFAC] SSL  
[LUMCAT] SSL eCOVELINE XL WET 1FT 3000K 120 DEGREE  
[LUMINAIRE] 1' LINEAR eCOVELINE XL WET FIXTURE W/ 120  
DEGREE OPTIC  
[LAMP] LM 80 DIODES 3000K

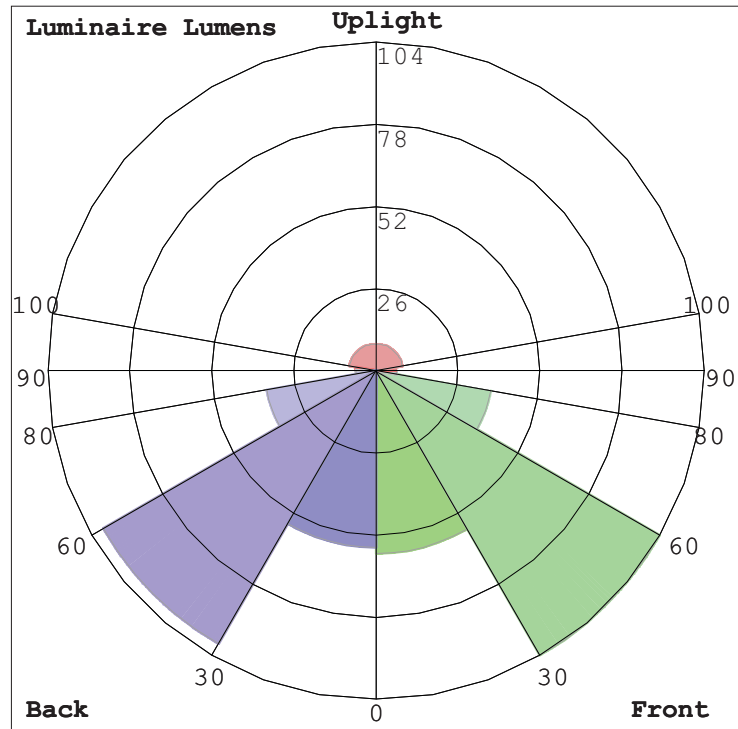
Maximum Candela = 147.629884711504 at 0 H 11 V

### Classification:

Road Classification: Type VS, Very Short, Cutoff (deprecated)  
Upward Waste Light Ratio: 0.04  
Luminaire Efficacy Rating (LER): 69  
Indoor Classification: Direct  
BUG Rating : B0-U1-G0

### LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	57.6	13.8	13.9
FM (30-60)	103.6	24.8	24.9
FH (60-80)	36.8	8.8	8.9
FVH (80-90)	6.6	1.6	1.6
BL (0-30)	55.6	13.3	13.4
BM (30-60)	99.5	23.9	23.9
BH (60-80)	35.0	8.4	8.4
BVH (80-90)	6.2	1.5	1.5
UL (90-100)	6.3	1.5	1.5
UH (100-180)	8.5	2.0	2.0
Total	415.7	99.6	100.0
BUG Rating	B0-U1-G0		



## PROJECT

Job _____	Notes
Type <b>F8</b> _____	
Part # _____	

## SPECIFICATIONS

- Source Xicato XTM LED module - up to 2000 lumens
- C.C.T. 2700K, 3000K, 3500K or 4000K
- Color Consistency 1x2 SDCM (MacAdam) along BBL, CCT +/- 40K to 70K, Duv +/- .001
- CRI (Ra) 83 or 98
- Driver / Location Included / Remote mount or deep canopy options
- Dimming 0-10V or phase dimming to 10% standard; DALI, DMX and 1% dimming available
- Input Voltage 100 to 277VAC, phase dimmable versions are 120VAC only
- Power Up to 24 watts max, depending on LED module / driver
- Reflector 20°, 40° or 60° - field replaceable without tools
- Material CNC machined aluminum with stainless steel hardware
- Finish Powder coat - TGIC polyester for exterior and interior use
- Weight 2.1 lb. [0.95 kg], ADA Compliant Version 1.8 lb. [0.8 kg]
- Location Listed for Wet & Damp locations
- Approvals ETL Listed to UL 1598, 2108, 8750 and CSA C22.2# 9 & #250.0
- L80 Life > 50,000 hours at 80% lumen maintenance based on IESNA LM-80-08
- Warranty Lifetime Limited Warranty - see warranty for details
- IES Files LM-79-08 IES files available at [www.v2LightingGroup.com/downloads](http://www.v2LightingGroup.com/downloads)
- Modifications Any modification or customization is possible - consult factory



## ORDERING LOGIC

Model	Driver		Mounting		Output	CRI *	C.C.T.	Reflector	Shell Color	Options
	Location	Dimming	Location	Location						
<b>C2SS</b>										
	R=Remote	N=None	D=Damp		07=700 lm	83=83	27=2700K	20=20°	XX	ADA=ADA Compliant
	D=Deep	P=Phase	W=Wet		10=950 lm	98=98*	30=3000K	40=40°	(see chart on page 4)	
	Canopy	V=0-10V			13=1300 lm		35=3500K	60=60°		
		Z=Other			20=2000 lm		40=4000K		ZZ=Custom	

\* 98 CRI not available in 2000 lm

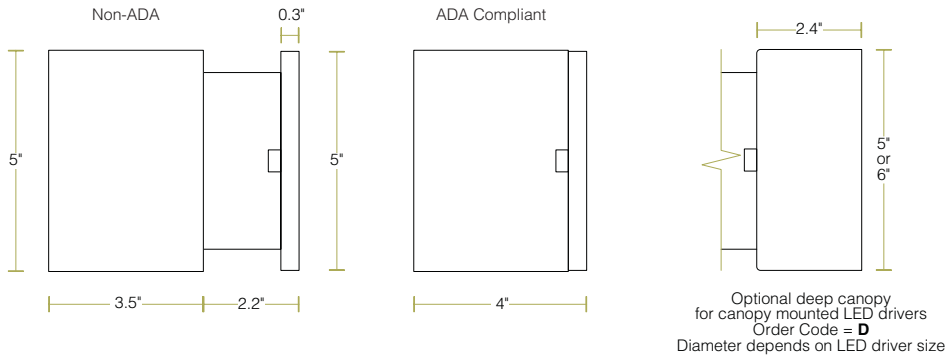
VERIFY FINISH SELECTION WITH ARCHITECT

Example Part Number: **C2SS-RND-13832740-S3**

**CORE 200 SX Sconce** - Remote Driver, No Dimming, Damp Location - 1300 lm, 83 CRI, 2700K, 40° Reflector - S3 Red Shell



## DIMENSIONS



All canopies fit standard 3.5" and 4" round and octagonal junction boxes  
Not to scale, dimensions are nominal  
Consult factory for CAD drawings

## LED OPTIONS

Reflector Option	LES <sup>1</sup>	CRI	LED Specifications		
			Lumens <sup>2,3,4</sup>	Wattage <sup>5</sup> (W)	Efficacy <sup>6</sup> (lm/W)
20°, 40° & 60°	19mm	Ra = 83 ± 3	700	5.6	129
			950	8.2	118
			1300	11.7	111
			2000	19.5	102
		Ra = 98 R9 ≥ 90 R15 ≥ 95	700	7.4	97
			950	10.9	89
		1300	15.6	83	

- <sup>1</sup> LES: Light Emitting Surface diameter
- <sup>2</sup> ±10%
- <sup>3</sup> Source lumens - see photometrics on page 3 for LOR to calculate delivered lumens
- <sup>4</sup> Higher lumen outputs are available in CORE / QUBE 300 and 400 series
- <sup>5</sup> Maximum luminaire wattage including LED driver = LED wattage x 1.2
- <sup>6</sup> Higher efficacies are available via lower drive currents - consult factory

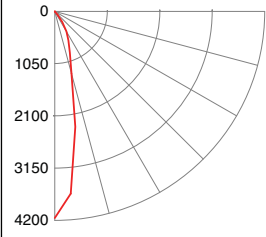
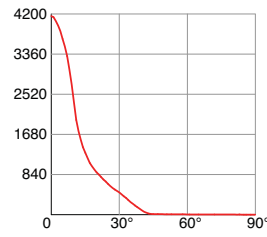
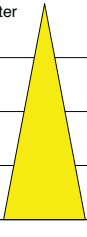
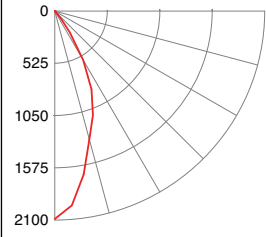
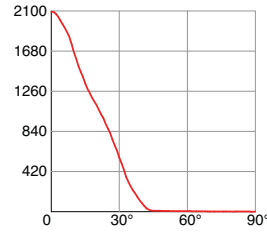

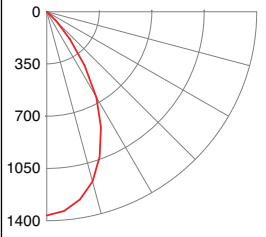
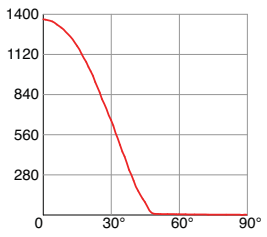

## CONTROL OPTIONS

Standard LED Drivers* (included in base price)	Order Code <b>V</b> = 0-10V dimming to 10%
	Order Code <b>P</b> = Phase dimming to 10% Compatible with both forward and reverse phase dimmers
Optional LED Drivers*	eldoLED 0-10V, DALI, or DMX dimming to 0%
	Lutron Hi-lume™ A-series, EcoSystem or forward phase dimming to 1% Lutron Hi-lume™ 5-series, EcoSystem dimming to 5%

- \* All LED drivers must be mounted in a deep canopy or remote
- \* Standard LED drivers are suitable for Wet Location
- \* Optional LED drivers are suitable for Damp Location
- \* For EM applications:  
All LED drivers may be used with 3rd party inverter style systems

## PHOTOMETRICS

LM-79-08 IES files available at [www.v2LightingGroup.com/downloads](http://www.v2LightingGroup.com/downloads)

Beam Angle	Order Code	Intensity Plot (cd) (1300lm)	Polar Plot (cd) (1300lm)	Cone Diagram (1300lm)	Description										
20°	<b>20</b>			 <table border="1"> <thead> <tr> <th>Beam Diameter</th> <th>Distance</th> </tr> </thead> <tbody> <tr> <td>1.9'</td> <td>5' 166 fc</td> </tr> <tr> <td>3.8'</td> <td>10' 42 fc</td> </tr> <tr> <td>5.7'</td> <td>15' 18 fc</td> </tr> <tr> <td>7.6'</td> <td>20' 10 fc</td> </tr> </tbody> </table>	Beam Diameter	Distance	1.9'	5' 166 fc	3.8'	10' 42 fc	5.7'	15' 18 fc	7.6'	20' 10 fc	CBCP = 3195 cd/klm Beam Angle = 21° Field Angle = 63° LOR = 89.4% Beam = full width @ 50% Field = full width @ 90%
Beam Diameter	Distance														
1.9'	5' 166 fc														
3.8'	10' 42 fc														
5.7'	15' 18 fc														
7.6'	20' 10 fc														
40°	<b>40</b>			 <table border="1"> <thead> <tr> <th>Beam Diameter</th> <th>Distance</th> </tr> </thead> <tbody> <tr> <td>3.9'</td> <td>5' 84 fc</td> </tr> <tr> <td>7.9'</td> <td>10' 21 fc</td> </tr> <tr> <td>11.8'</td> <td>15' 9 fc</td> </tr> <tr> <td>15.7'</td> <td>20' 5 fc</td> </tr> </tbody> </table>	Beam Diameter	Distance	3.9'	5' 84 fc	7.9'	10' 21 fc	11.8'	15' 9 fc	15.7'	20' 5 fc	CBCP = 1607 cd/klm Beam Angle = 43° Field Angle = 73° LOR = 88.7% Beam = full width @ 50% Field = full width @ 90%
Beam Diameter	Distance														
3.9'	5' 84 fc														
7.9'	10' 21 fc														
11.8'	15' 9 fc														
15.7'	20' 5 fc														
60°	<b>60</b>			 <table border="1"> <thead> <tr> <th>Beam Diameter</th> <th>Distance</th> </tr> </thead> <tbody> <tr> <td>5.6'</td> <td>5' 55 fc</td> </tr> <tr> <td>11.3'</td> <td>10' 14 fc</td> </tr> <tr> <td>16.9'</td> <td>15' 6 fc</td> </tr> <tr> <td>22.6'</td> <td>20' 3 fc</td> </tr> </tbody> </table>	Beam Diameter	Distance	5.6'	5' 55 fc	11.3'	10' 14 fc	16.9'	15' 6 fc	22.6'	20' 3 fc	CBCP = 1050 cd/klm Beam Angle = 59° Field Angle = 86° LOR = 85.2% Beam = full width @ 50% Field = full width @ 90%
Beam Diameter	Distance														
5.6'	5' 55 fc														
11.3'	10' 14 fc														
16.9'	15' 6 fc														
22.6'	20' 3 fc														

### Beam Shaping Options

Add the order code shown below to the options box at the end of the part number:

Order Code	Description
-HL	Honeycomb Louver
-DF	Diffusion Lens
-SF	Satin finish on any standard reflector
-LS	Linear Spread Lens (60° x 1°)
-WW	Wall Wash Lens (shifts beam 20° from vertical)



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## Photometric Report (Type C)

Filename: CORE 200 1300lm 80CRI 60deg.IES  
[TEST] Report XSM80XX-1300-C with XSA-12 (59deg\_70mm  
Plastic reflector)-17.8-12\_10\_2012  
[MANUFAC] Xicato Inc, San Jose, CA USA  
(<http://www.xicato.com>)  
[LUMCAT] "XSM80XX-1300-C with XSA-12 (59deg\_70mm  
Plastic reflector) - typical module at 70C and 1050mA"  
[LUMINAIRE] "XSM80XX-1300-C with XSA-12 (59deg\_70mm  
Plastic reflector)"  
[LAMP] "Xicato XSM80XX-1300-C - typical module at 70C,  
1050mA, 80CRI (min)"

Maximum Candela = 1365 at 0 H 0 V

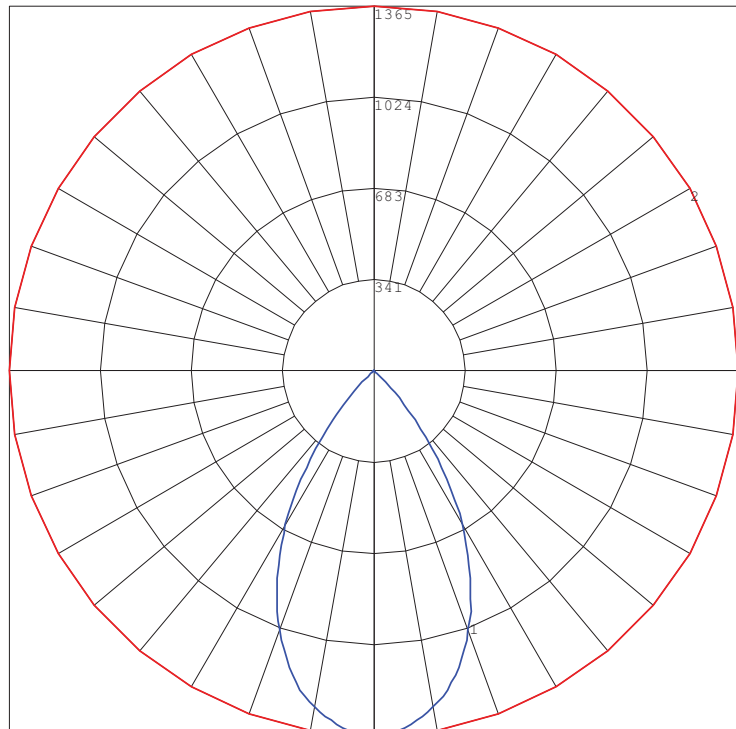
### Classification:

Road Classification: Type V, Very Short, Cutoff (deprecated)  
Luminaire Efficacy Rating (LER): 67  
Indoor Classification: Direct  
BUG Rating : B0-U1-G0

### Polar Candela Curves:

Vertical Plane Through:  
1) 0 - 180 Horizontal

Horizontal Cone Through:  
2) 0 Vertical



# 12V | Litesphere™ LED Strand

CAT:	FEET:
------	-------

TYPE:	PROJECT:
-------	----------



Energy-efficient, low voltage strand lighting using wedge-base LED lamps protected by clear, frosted or colored polycarbonate globes.

**Features**

- Flexible 16AWG. cord available in Black or White with matching socket.
- Shatterproof, polycarbonate, O-ring fitted globes protect lamps with clarity and seamless appearance.
- Socket is parallel wired and permanently fixed to cord.
- Field cuttable.

**Mounting**

Each Socket has mounting holes for screw attachment in under-eave applications. Use 1/8" stainless steel wire cable (by others) and included hanger clips for festoon applications.

**Applications**

Ideal for indoor and outdoor applications.

**Warranty**

3 years

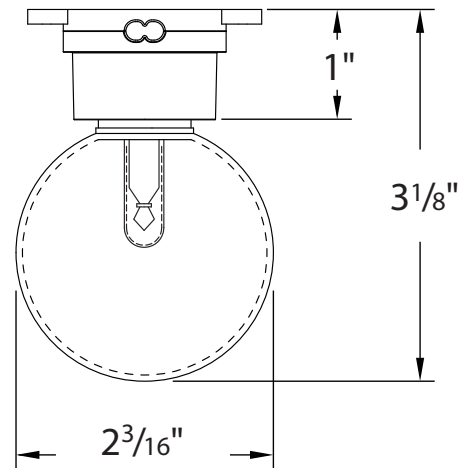
## Technical Information



Lamp Spacing	6" O.C.	12" O.C.	18" O.C.	24" O.C.
*Lumens/ft (STD)	8	4	3	2
*Lumens/ft (HO)	24	12	9	6
*Watts/ft (STD)	0.2	0.1	0.08	0.05
*Watts/ft (HO)	0.52	0.26	0.20	0.13
*Lumens/watt* (STD)	40			
*Lumens/watt (HO)	46			
CRI	> 80/TYP83			
LED Colors	1900°K, 2700°K, 3000°K, 3500°K, 4000°K (+/- 80°K) 3SDCM			
Rated Life	75,000 hr.			
Ordering Increment	1'			
Operating Voltage	12V DC			
Power Supply	Class 2			
Dimming	Yes			

\* 3000°K Sample

**Profile Dimensions**



## Recommended Power Supplies

CAT NO	APPLICATION	PRIMARY AND SECONDARY	TOTAL WATTAGE / AMPS PER BREAKER	LISTING	DIMENSIONS	ELECTRONIC OR AC MAGNETIC	
ADNM-80-1-5-12-D	Outdoor	120-277V AC / 12V DC	60W / 1X5A	cULus	12"W X 12"L X 4"D	Electronic	
ADNM-150-2-5-12-D		120-277V AC / 12V DC	120W / 2X5A	cULus	12"W X 12"L X 4"D		
ADNM-240-3-5-12-D		120-277V AC / 12V DC	180W / 3X5A	cULus	12"W X 12"L X 4"D		
ADNM-320-4-5-12-D		120-277V AC / 12V DC	240W / 4X5A	cULus	12"W X 12"L X 4"D		
ADUL-80-1-5-12-D	Indoor	120-277V AC / 12V DC	60W / 1X5A	UL/ETL/CSA	10"W X 10"L X 4"D		
ADUL-150-2-5-12-D		120-277V AC / 12V DC	120W / 2X5A	UL/ETL/CSA	10"W X 10"L X 4"D		
ADUL-240-3-5-12-D		120-277V AC / 12V DC	180W / 3X5A	UL/ETL/CSA	10"W X 10"L X 4"D		
ADUL-320-4-5-12-D		120-277V AC / 12V DC	240W / 4X5A	UL/ETL/CSA	10"W X 10"L X 4"D		
MT-60-1-5-12-D	Indoor/Outdoor	120V AC / 12V DC	60W / 1X5A	cULus	2.50"W X 12.32"L X 1.56"D		Magnetic
MT-60-1-5-12-DD		120V AC / 12V DC	60W / 1X5A	cULus	2.50"W X 12.32"L X 1.56"D		
JT-60-1-5-12-D		120V AC / 12V DC	60W / 1X5A	cETLus	4.25"W X 8.50"L X 3.25"D		
JTH-60-1-5-12-D		277V AC / 12V DC	60W / 1X5A	cETLus	4.25"W X 8.50"L X 3.25"D		
JT-240-4-5-12-D		120V AC / 12V DC	240W / 4X5A	cETLus	8.50"W X 16.00"L X 4.50"D		
JTH-240-4-5-12-D		277V AC / 12V DC	240W / 4X5A	cETLus	8.50"W X 16.00"L X 4.50"D		

### Dimming Interface

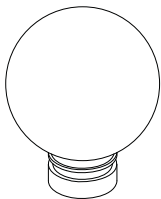
DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	MAX LOAD	CIRCUIT BREAKERS	CIRCUIT CAPACITY	DIMENSION
DIM-OT	DIM-OT-1-4-5-D	Indoor	12V/24V	12V/24V	96W	1	5A /4A	7"L X 1½"W X ¾"H

## Ordering Information

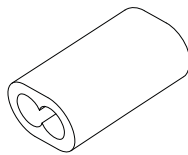
PRODUCT CODE	WIRE	LAMP SPACING	LED	LED COLOR	*GLOBE COLOR	VOLTAGE	REQUIRED POWER SUPPLY
LSL - Litesphere LED™	B = Black W = White	06 = 6" O.C. 12 = 12" O.C. 18 = 18" O.C. 24 = 24" O.C.	H = High Output S = Standard Output	19 = 1900°K 27 = 2700°K 30 = 3000°K 35 = 3500°K 40 = 4000°K	C = Clear F = Frosted G = Green B = Blue Y = Yellow P = Purple R = Red O = Orange Z = Varied Colors	12 = 12V DC	PSU See Above

\* for best results use 3500°K, with colored bulb.

## Wiring Accessories



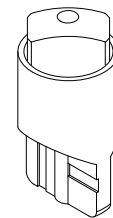
- |                         |                        |
|-------------------------|------------------------|
| <b>LS-CG</b><br>Clear   | <b>LS-OG</b><br>Orange |
| <b>LS-FG</b><br>Frosted | <b>LS-GG</b><br>Green  |
| <b>LS-YG</b><br>Yellow  | <b>LS-BG</b><br>Blue   |
| <b>LS-RG</b><br>Red     | <b>LS-PG</b><br>Purple |



- LS-EC-BK**  
Black end cap  
**LS-EC-WH**  
White end cap



- LS-HANG-CLIP**  
Hanger clip for installation from 8 gauge stainless steel aircraft cable



- |  |  |
|--|--|
| <b>STANDARD</b>                                | <b>HIGH OUTPUT</b>                             |
| <b>LSL-19-S-12</b><br>12V Wedge base<br>1900°K | <b>LSL-19-H-12</b><br>12V Wedge base<br>1900°K |
| <b>LSL-27-S-12</b><br>12V Wedge base<br>2700°K | <b>LSL-27-H-12</b><br>12V Wedge base<br>2700°K |
| <b>LSL-30-S-12</b><br>12V Wedge base<br>3000°K | <b>LSL-30-H-12</b><br>12V Wedge base<br>3000°K |
| <b>LSL-35-S-12</b><br>12V Wedge base<br>3500°K | <b>LSL-35-H-12</b><br>12V Wedge base<br>3500°K |
| <b>LSL-40-S-12</b><br>12V Wedge base<br>4000°K | <b>LSL-40-H-12</b><br>12V Wedge base<br>4000°K |





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## Photometric Report (Type C)

Filename: GLEON-AE-01-LED-E1-SL4-7030-HSS.ies  
[TEST] P126770 TEST IS SCALED FROM IESNA LM-79-08 TEST  
DATA (P24301)  
[TESTLAB] Innovations Center P2  
[ISSUE DATE] 2/17/2014  
[MANUFAC] EATON - MCGRAW-EDISON (FORMER COOPER  
LIGHTING)  
[LUMCAT] GLEON-AE-01-LED-E1-SL4-7030-HSS  
[LUMINAIRE] GALLEON LED AREA AND ROADWAY LUMINAIRE (1)  
70 CRI, 3000K, 1A LIGHTSQUARE WITH 16 LEDS AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD

Maximum Candela = 3153 at 40 H 69 V

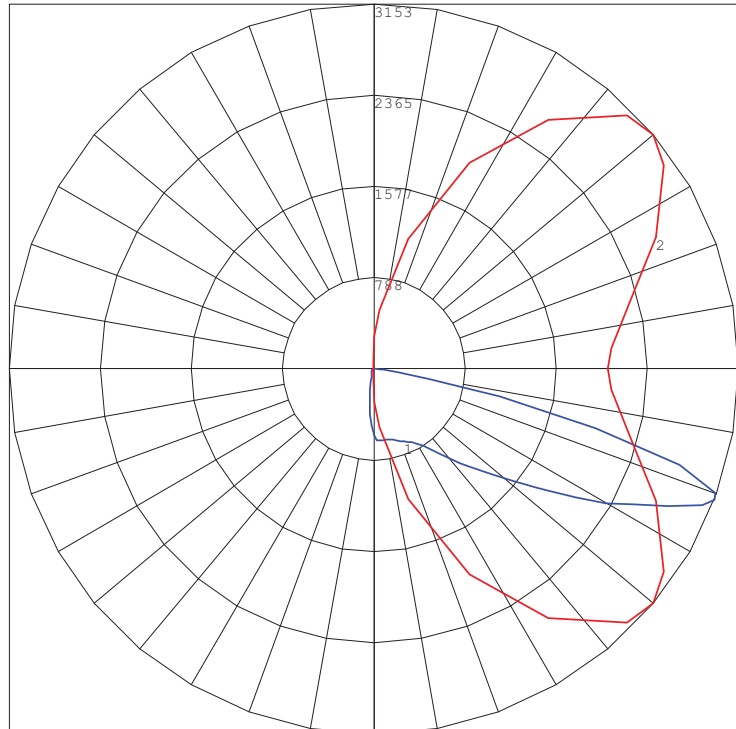
### Classification:

Road Classification: Type IV, Short, N.A. (deprecated)  
Upward Wast Light Ratio: 0.00  
Luminaire Efficacy Rating (LER): 69  
Indoor Classification: Direct  
BUG Rating : B0-U0-G1

### Polar Candela Curves:

Vertical Plane Through:  
1) 40 - 220 Horizontal

Horizontal Cone Through:  
2) 69 Vertical





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## Photometric Report (Type C)

Filename: GLEON-AE-01-LED-E1-SL4-7030-HSS.ies  
[TEST] P126770 TEST IS SCALED FROM IESNA LM-79-08 TEST  
DATA (P24301)  
[TESTLAB] Innovations Center P2  
[ISSUE DATE] 2/17/2014  
[MANUFAC] EATON - MCGRAW-EDISON (FORMER COOPER  
LIGHTING)  
[LUMCAT] GLEON-AE-01-LED-E1-SL4-7030-HSS  
[LUMINAIRE] GALLEON LED AREA AND ROADWAY LUMINAIRE (1)  
70 CRI, 3000K, 1A LIGHTSQUARE WITH 16 LEDS AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD

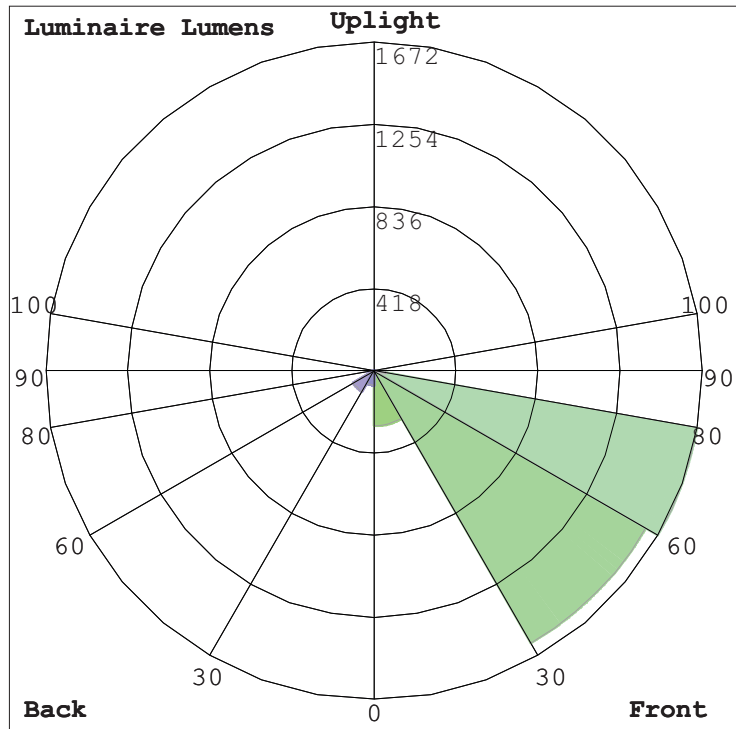
Maximum Candela = 3153 at 40 H 69 V

### Classification:

Road Classification: Type IV, Short, N.A. (deprecated)  
Upward Waste Light Ratio: 0.00  
Luminaire Efficacy Rating (LER): 69  
Indoor Classification: Direct  
BUG Rating : B0-U0-G1

### LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	280.6	N.A.	7.3
FM (30-60)	1599.8	N.A.	41.7
FH (60-80)	1671.6	N.A.	43.6
FVH (80-90)	60.6	N.A.	1.6
BL (0-30)	72.7	N.A.	1.9
BM (30-60)	120.7	N.A.	3.1
BH (60-80)	29.2	N.A.	0.8
BVH (80-90)	2.0	N.A.	0.1
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	3837.2	N.A.	100.0
BUG Rating	B0-U0-G1		



## DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

<b>Catalog #</b>		<b>Type</b>
<b>Project</b>		<b>F10</b>
<b>Comments</b>		<b>Date</b>
<b>Prepared by</b>		

## SPECIFICATION FEATURES

### Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

### Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 6000K CCT and 3000K CCT.

### Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

### Mounting

**STANDARD ARM MOUNT:** Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table.

Round pole adapter included.

For wall mounting, specify wall mount bracket option. 3G vibration rated. **QUICK MOUNT ARM:** Arm is bolted directly to the pole and the fixture slides onto the quick mount arm and is secured via a single fastener, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

### Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

### Warranty

Five-year warranty.

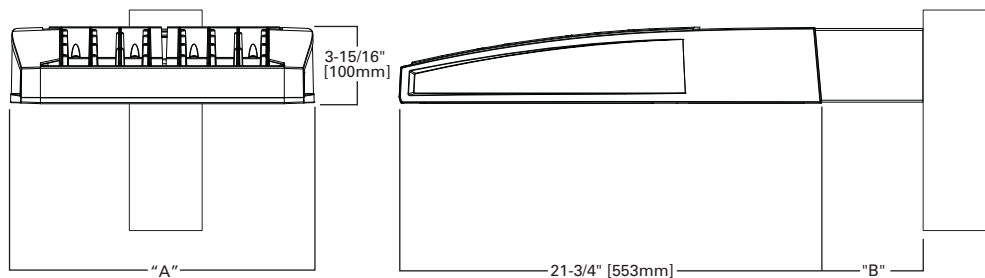


## GLEON GALLEON LED

**1-10 Light Squares**  
**Solid State LED**

**AREA/SITE LUMINAIRE**

## DIMENSIONS

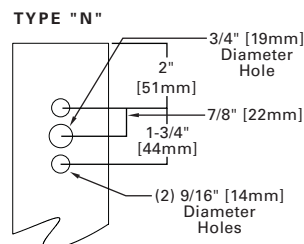


### DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length <sup>1</sup>	Weight with Arm (lbs.)	EPA with Arm <sup>2</sup> (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

### DRILLING PATTERN



### CERTIFICATION DATA

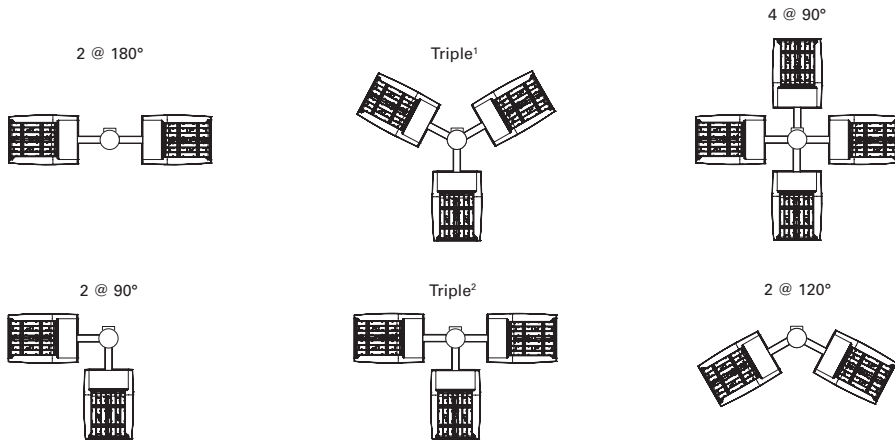
UL/cUL Wet Location Listed  
ISO 9001  
LM79 / LM80 Compliant  
3G Vibration Rated  
IP66 Rated  
DesignLights Consortium™ Qualified\*

### ENERGY DATA

**Electronic LED Driver**  
>0.9 Power Factor  
<20% Total Harmonic Distortion  
120V-277V 50/60Hz  
347V & 480V 60Hz  
-40°C Min. Temperature  
40°C Max. Temperature  
50°C Max. Temperature (HA Option)

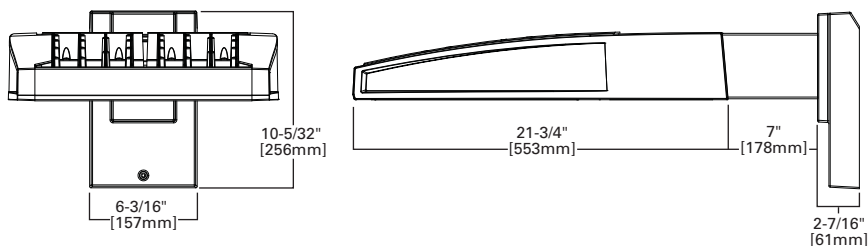
**ARM MOUNTING REQUIREMENTS**

Configuration	90° Apart	120° Apart
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)

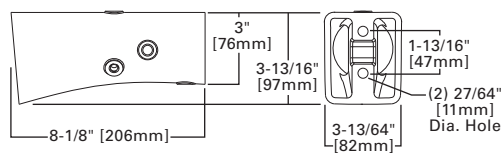


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

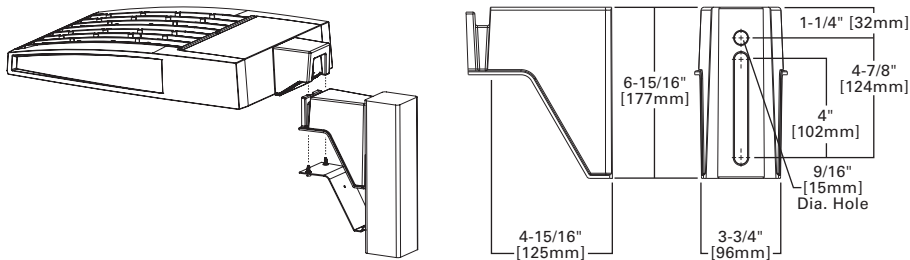
**STANDARD WALL MOUNT**



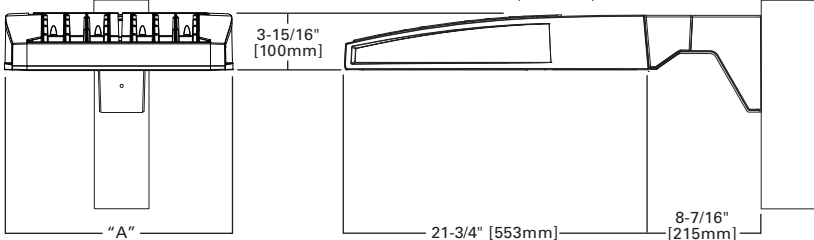
**MAST ARM MOUNT**



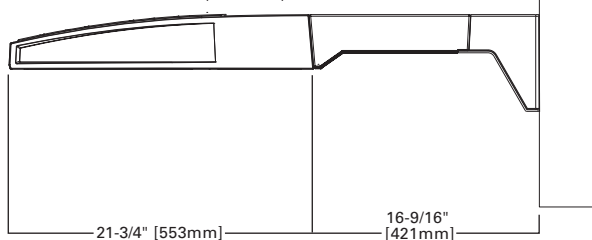
**QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)**



QM Quick Mount Arm (Standard)



QMEA Quick Mount Arm (Extended)

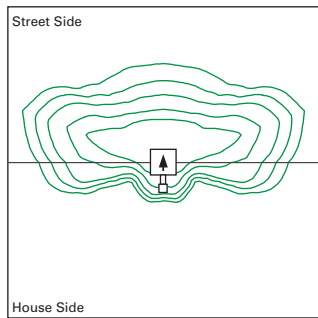


**QUICK MOUNT ARM DATA**

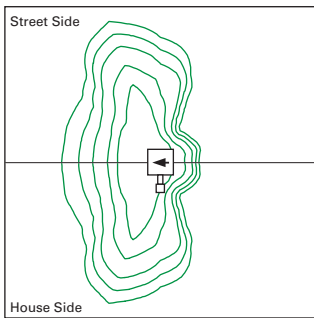
Number of Light Squares <sup>1,2</sup>	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 <sup>3</sup>	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	59 (26.82 kgs.)	

NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

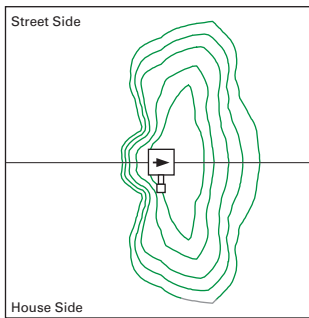
**OPTIC ORIENTATION**



**Standard**



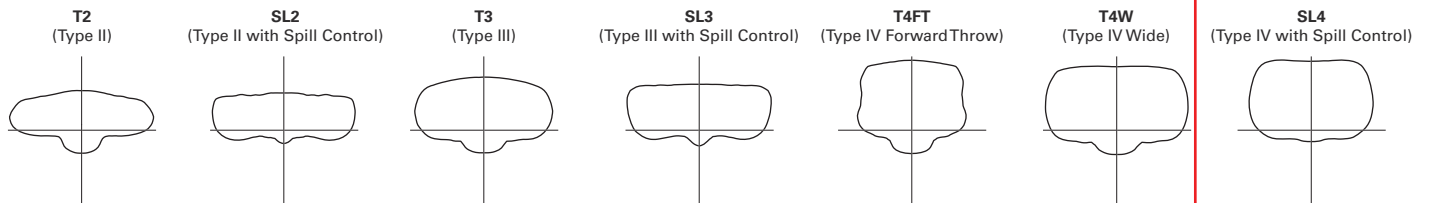
**Optics Rotated Left @ 90° [L90]**



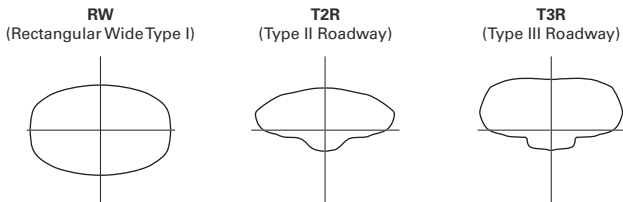
**Optics Rotated Right @ 90° [R90]**

**OPTICAL DISTRIBUTIONS**

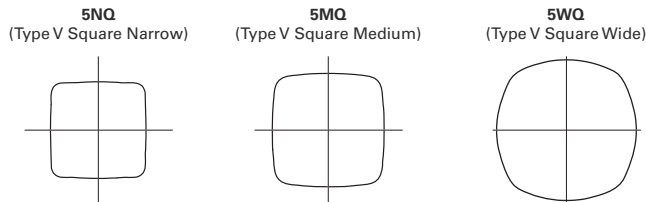
**Asymmetric Area Distributions**



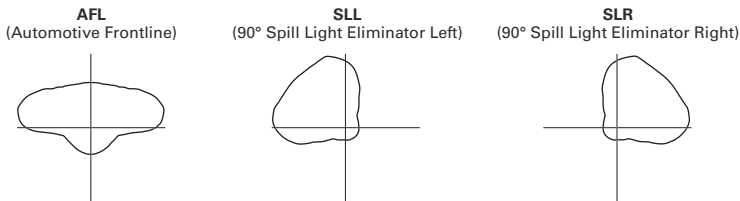
**Asymmetric Roadway Distributions**



**Symmetric Distributions**



**Specialized Distributions**



## NOMINAL POWER AND LUMENS (1A)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Drive Current	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	
Nominal Power (Watts)	56	107	157	213	264	315	370	421	475	528	
Input Current @ 120V (A)	0.47	0.90	1.31	1.79	2.21	2.64	3.09	3.51	3.96	4.41	
Input Current @ 208V (A)	0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50	
Input Current @ 240V (A)	0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20	
Input Current @ 277V (A)	0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00	
Optics											
T2	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2R	Lumens	5,597	10,938	16,321	21,565	26,719	31,974	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,669	20,704	25,652	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,760	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,838	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,128	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,886	19,669	24,370	29,163	34,488	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	Lumens	5,542	10,830	16,160	21,352	26,455	31,658	37,439	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
5MQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
5WQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	Lumens	4,722	9,227	13,767	18,191	22,539	26,971	31,897	36,141	40,315	44,635
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,486	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

\* Nominal data for 4000K CCT.

## LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

## LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

\* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.



## NOMINAL POWER AND LUMENS (700MA)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Drive Current	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	
Nominal Power (Watts)	38	72	105	138	176	210	243	276	314	348	
Input Current @ 120V (A)	0.32	0.59	0.86	1.14	1.45	1.72	2	2.28	2.58	2.86	
Input Current @ 208V (A)	0.21	0.36	0.51	0.67	0.87	1.02	1.18	1.34	1.53	1.69	
Input Current @ 240V (A)	0.19	0.32	0.45	0.59	0.77	0.90	1.04	1.18	1.35	1.49	
Input Current @ 277V (A)	0.20	0.29	0.40	0.51	0.69	0.80	0.91	1.02	1.20	1.31	
Optics											
T2	Lumens	3,854	7,531	11,237	14,847	18,395	22,013	26,033	29,497	32,904	36,430
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	Lumens	4,091	7,995	11,929	15,762	19,529	23,370	27,638	31,316	34,932	38,676
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	Lumens	3,928	7,676	11,453	15,133	18,750	22,437	26,534	30,065	33,537	37,132
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	Lumens	4,015	7,846	11,707	15,469	19,166	22,936	27,124	30,733	34,283	37,957
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	Lumens	3,951	7,720	11,519	15,221	18,858	22,567	26,688	30,240	33,732	37,347
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	3,900	7,620	11,370	15,024	18,615	22,276	26,343	29,849	33,296	36,864
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	Lumens	3,847	7,518	11,217	14,821	18,364	21,975	25,988	29,447	32,847	36,368
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	Lumens	3,927	7,675	11,451	15,131	18,747	22,434	26,531	30,061	33,533	37,126
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	Lumens	3,731	7,292	10,880	14,376	17,812	21,315	25,208	28,562	31,861	35,275
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5NQ	Lumens	4,051	7,916	11,811	15,606	19,336	23,139	27,365	31,006	34,587	38,294
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	Lumens	4,125	8,062	12,029	15,894	19,692	23,565	27,869	31,577	35,224	38,999
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
5WQ	Lumens	4,136	8,083	12,061	15,936	19,745	23,628	27,943	31,661	35,318	39,103
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	3,451	6,744	10,063	13,296	16,474	19,714	23,314	26,416	29,467	32,625
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	Lumens	4,014	7,844	11,704	15,465	19,162	22,930	27,118	30,726	34,274	37,948
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	Lumens	4,029	7,873	11,747	15,522	19,231	23,014	27,216	30,838	34,399	38,086
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

\* Nominal data for 4000K CCT.

## LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

## LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

\* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

## NOMINAL POWER AND LUMENS (530MA)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Drive Current	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	
Nominal Power (Watts)	30	54	80	105	130	159	184	209	234	259	
Input Current @ 120V (A)	0.25	0.45	0.66	0.86	1.07	1.32	1.52	1.72	1.93	2.14	
Input Current @ 208V (A)	0.17	0.28	0.39	0.51	0.63	0.78	0.9	1.02	1.14	1.26	
Input Current @ 240V (A)	0.17	0.25	0.35	0.45	0.55	0.70	0.80	0.90	1.00	1.10	
Input Current @ 277V (A)	0.19	0.24	0.32	0.40	0.49	0.64	0.72	0.80	0.89	0.98	
Optics											
T2	Lumens	3,079	6,017	8,978	11,862	14,697	17,588	20,800	23,567	26,289	29,106
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
T2R	Lumens	3,269	6,388	9,531	12,593	15,603	18,672	22,082	25,020	27,909	30,900
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
T3	Lumens	3,138	6,133	9,150	12,091	14,980	17,926	21,200	24,021	26,795	29,667
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3R	Lumens	3,208	6,269	9,354	12,359	15,313	18,325	21,671	24,555	27,390	30,326
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4FT	Lumens	3,156	6,168	9,203	12,161	15,067	18,030	21,323	24,160	26,950	29,839
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T4W	Lumens	3,116	6,088	9,084	12,004	14,872	17,797	21,047	23,848	26,602	29,453
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL2	Lumens	3,074	6,006	8,962	11,842	14,672	17,558	20,764	23,527	26,244	29,056
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL3	Lumens	3,138	6,132	9,149	12,089	14,978	17,924	21,197	24,018	26,791	29,662
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL4	Lumens	2,981	5,826	8,693	11,486	14,231	17,030	20,140	22,820	25,456	28,184
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5
5NQ	Lumens	3,236	6,324	9,437	12,469	15,449	18,487	21,863	24,773	27,634	30,595
	BUG Rating	B1-U0-G0	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2
5MQ	Lumens	3,296	6,441	9,610	12,698	15,733	18,828	22,266	25,229	28,142	31,158
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5WQ	Lumens	3,305	6,458	9,636	12,732	15,775	18,878	22,325	25,296	28,217	31,241
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	2,757	5,388	8,040	10,623	13,162	15,751	18,627	21,105	23,543	26,066
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4
RW	Lumens	3,207	6,267	9,351	12,356	15,309	18,320	21,666	24,549	27,384	30,319
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
AFL	Lumens	3,219	6,290	9,385	12,401	15,365	18,387	21,745	24,638	27,484	30,429
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3

\* Nominal data for 4000K CCT.

## LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

## LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

\* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

ORDERING INFORMATION

GLEON GALLEON LED

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family <sup>1,2</sup>	Light Engine	Number of Light Squares <sup>3</sup>	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AE=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 10=10	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V 480=480V	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5N0=Type V Narrow 5MO=Type V Square Medium 5WO=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLR=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AF=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm MA=Mast Arm Adapter WM=Wall Mount QM=Quick Mount Arm (Standard Length) OMEA=Quick Mount Arm (Extended Length)

Options (Add as Suffix)		Accessories (Order Separately)	
Z1=Two Circuits <sup>12,13</sup>		OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V	
7030=20 CRI / 3000K <sup>14</sup>		OA/RA1027=NEMA Photocontrol - 480V	
8030=80 CRI / 3000K <sup>15</sup>		OA/RA1201=NEMA Photocontrol - 347V	
7050=70 CRI / 5000K <sup>15</sup>		OA/RA1013=Photocontrol Shorting Cap	
7060=70 CRI / 6000K <sup>14</sup>		OA/RA1014=120V Photocontrol	
530=Drive Current Factory Set to 530mA <sup>16</sup>		MA1252=10kV Surge Module Replacement	
700=Drive Current Factory Set to 700mA <sup>16</sup>		MA1036=XX=Single Tenon Adapter for 2-3/8" O.D. Tenon	
P=Button Type Photocontrol (120, 208, 240 or 277V)		MA1037=XX=2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon	
R=NEMA Twistlock Photocontrol Receptacle		MA1197=XX=3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon	
HA=50°C High Ambient <sup>15,17</sup>		MA1188=XX=4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon	
MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height <sup>18,19,20,21,22</sup>		MA1189=XX=2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon	
MS/DIM-L20=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>18,19,20,21,22</sup>		MA1190=XX=3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon	
MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>18,19,20,21,25,26</sup>		MA1191=XX=2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon	
MS/X-L120=BI-Level Motion Sensor, 9' - 20' Mounting Height <sup>18,19,20,21,23,26</sup>		MA1038=XX=Single Tenon Adapter for 3-1/2" O.D. Tenon	
MS/X-L140W=BI-Level Motion Sensor, 21' - 40' Mounting Height <sup>18,19,20,21,24,26</sup>		MA1039=XX=2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon	
MS-X-L08=BI-Level Motion Sensor, Maximum 8' Mounting Height <sup>18,19,20,21,23,26</sup>		MA1192=XX=3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon	
MS-X-L120=BI-Level Motion Sensor, 9' - 20' Mounting Height <sup>18,19,20,21,22,26</sup>		MA1193=XX=4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon	
MS/X-L140W=BI-Level Motion Sensor, 21' - 40' Mounting Height <sup>18,19,20,21,24,26</sup>		MA1194=XX=2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon	
MS-X-L140W=BI-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) <sup>18,19,20,21,25,26</sup>		MA1195=XX=3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon	
MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height <sup>18,19,20,21,22</sup>		FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>31</sup>	
MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height <sup>18,19,20,21,23</sup>		GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares	
MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height <sup>18,19,20,21,24</sup>		GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares	
MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) <sup>18,19,20,25</sup>		GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares	
DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height <sup>27</sup>		GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares	
DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>27</sup>		GLEON-QM=Quick Mount Arm Kit <sup>18</sup>	
L90=Optics Rotated 90° Left		GLEON-QM-EA=Quick Mount Extended Length Arm Kit <sup>18</sup>	
R90=Optics Rotated 90° Right		LS/HSS=Field Installed House Side Shield <sup>28,29</sup>	
MT=Factory Installed Mesh Top			
TH=Toolless Door Hardware			
LCF=Light Square Trim Plate Painted to Match Housing <sup>28</sup>			
HSS=Factory Installed House Side Shield <sup>28</sup>			
CE=CE Marking <sup>30</sup>			

NOTES:

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WPS13001EN for additional support information.
- DesignLights Consortium™ Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details.
- Standard 4000K CCT and minimum 70 CRI.
- Not compatible with extended quick mount arm (QMEA).
- Not compatible with standard quick mount arm (QMA) or extended quick mount arm (QMEA).
- Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF.
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems. Impedance grounded systems or corner grounded systems (commonly known as Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
- May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
- Factory installed.
- Maximum 8 light squares.
- Maximum 6 light squares.
- 2L is not available with MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
- Not available with LumaWatt wireless sensors.
- Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
- Extended lead times apply. For 8030, factor 7030 IES files x .92 (8% lumen loss). For 7050, use 7060 IES files.
- 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
- 50°C lumen maintenance data applies to 530mA and 700mA drive currents.
- Consult factory for more information.
- Utilizes internal step-down transformer when 347V or 480V is selected.
- The FSIR-100 accessory 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.
- Not available with HA option.
- Approximately 22' detection diameter at 8' mounting height.
- Approximately 40' detection diameter at 20' mounting height.
- Approximately 60' detection diameter at 40' mounting height.
- Approximately 100' detection diameter at 40' mounting height.
- Replace X with number of light squares operating in low output mode.
- LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROU-T1 in appropriate quantities. See [www.eaton.com/lighting](http://www.eaton.com/lighting) for LumaWatt application information.
- Not available with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
- CE is not available with the DIMRF, MS, MS/X, MS/DIM, P, R or PARY options. Available in 120-277V only.
- This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
- One required for each Light Square.



Powering Business Worldwide

Eaton

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 Peachtree City, GA 30269  
 P-770-486-4800  
[www.eaton.com/lighting](http://www.eaton.com/lighting)

Specifications and dimensions subject to change without notice.

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