

## NRM-611 / NRM-612 / NRM-618

### 6" Marquise I Reflectors

Source: 11W to 26W LED  
850lm to 2000lm

#### PRODUCT DESCRIPTION

6" Marquise Series with thermal management system combined in a single compact unit. Cree TrueWhite® LED ceramic package and Unitized Thermal Management (UTM) system. Outboard mounted driver allows for cooler operation and extends life.

Cree TrueWhite technology with the highest performing commercially available LEDs and mixes in complementary light from red and unsaturated yellow LEDs to create beautiful, warm, white light. This patented approach enables precise color management to preserve reliable high color consistency over the life of the product.

#### FEATURES

- 5-year Limited Warranty
- Cree TrueWhite® or Comfort Dim Technology
- 850lm, 1250lm or 2000lm LED packages
- 2700K, 3000K, 3500K and 4000K @ 90+CRI
- Can be used to comply with 2016 Title 24 - part 6 High Efficacy LED light source requirements

#### CONSTRUCTION

**Trim:** Aluminum spun reflector with deep set diffused lens for excellent visual comfort while providing high lumen output.

**Mounting:** Trim includes torsion springs to mount trim securely to housing.

#### ELECTRICAL

##### Delivered Lumens / Wattage:

**L85** = 802lm / 11W; **L12** = 1148lm / 16W;

**L20** = 1798lm / 26W

**Color Temperature:** 2700K, 3000K, 3500K, 4000K

**CRI:** 90+CRI

**Operating Temp.:** 0°C to 75°C ambient temperature

**Comfort Dim:** Comfort Dim color tunes the temperature from a bright 2700K, to a romantic and comfortable 1800K on a gradual, even curve.

- Comfort Dim is available in 2 different lumen levels:
  - 850 and 1250 Lumens for lower ceiling heights in commercial and residential applications.
  - 2000 Lumens for light commercial and residential high ceiling applications.

**Dimming:** Specified by housing

#### COMPATIBLE HOUSINGS

Reflectors are compatible with respective Marquise I series housings manufactured by Nora Lighting.

##### CATALOG NO. DESCRIPTION

<b>NHM-612</b>	6" Non-IC New Construction (1250lm)
<b>NHM-620</b>	6" Non-IC New Construction (2000lm)
<b>NHRM-612</b>	6" Non-IC Remodel (1250lm)
<b>NHRM-620</b>	6" Non-IC Remodel (2000lm)
<b>NHMIC-685</b>	6" IC New Construction (850lm)
<b>NHRM-685</b>	6" IC Remodel (850lm)
<b>NHMICD-612</b>	6" IC Double Wall (1250lm)
<b>NHMICD-620</b>	6" IC Double Wall (2000lm)
<b>NFBIC-6L</b>	6" IC Dedicated Fire Box (850 or 1250lm)

#### DECO GLASS OPTIONS

NRM-618 is compatible with up to two decorative glass options sold separately. Each glass includes mounting hardware.

<b>NTG-6B/120</b>	6" Tempered Blue Glass with 4-3/8" Open Center
<b>NTG-6B/80</b>	6" Tempered Blue Glass with 3-1/8" Open Center
<b>NTG-6CF</b>	6" Tempered Clear Glass with Frosted Center
<b>NTG-6FC</b>	6" Tempered Frosted Glass with Clear Center
<b>NTG-6HF</b>	6" Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

#### LABELS AND LISTINGS

- cULus Listed for Wet Location when used with compatible housing
- ENERGY STAR® certified
- Can be used to comply with 2016 Title 24 - part 6 High Efficacy LED light source requirements
- 5-Year Limited Warranty
- WSEC ASTM E283 for Air-Tight



#### PRODUCT IMAGES AND DIMENSIONS



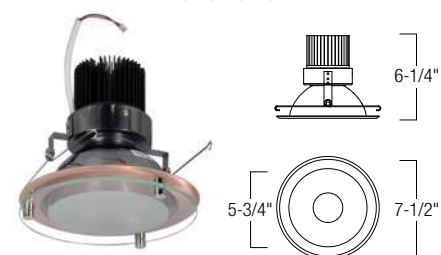
##### NRM-611 Round Open Reflector

BW, BZ, CO, DW, HZW, NN, WW



##### NRM-612 Round Baffle

BW, BZ, CO, NN, WW



##### NRM-618 Decorative Glass Reflector (Specify glass separately)

BW, BZ, CO, DW, HZW, NN, WW

### 6" Marquise I Reflectors - Dedicated Housing Required

Reflector Type	Lumens / Wattage	Color Temp.	Finish (see chart below)
<b>NRM-611</b> = Round Open Reflector	<b>L85</b> = 850lm / 11W	<b>27</b> = 2700K	<b>BW</b> = Black / White Flange
<b>NRM-612</b> = Round Baffle	<b>L12</b> = 1250lm / 16W	<b>30</b> = 3000K	<b>BZ</b> = Bronze / Bronze Flange
<b>NRM-618</b> = Round Deco Glass*	<b>L20</b> = 2000lm / 26W	<b>35</b> = 3500K	<b>CO</b> = Copper / Copper Flange
		<b>40</b> = 4000K	<b>DW</b> = Diffused Clear / White Flange
		<b>CD</b> = Comfort Dim	<b>HZW</b> = Haze / White Flange
			<b>NN</b> = Natural Metal / Natural Metal Flange
			<b>WW</b> = White / White Flange

#### \*Deco Glass Option

<b>NTG-6B/120</b>	Tempered Blue Glass with 4-3/8" Open Center
<b>NTG-6B/80</b>	Tempered Blue Glass with 3-1/8" Open Center
<b>NTG-6CF</b>	Tempered Clear Glass with Frosted Center
<b>NTG-6FC</b>	Tempered Frosted Glass with Clear Center
<b>NTG-6HF</b>	Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

#### Available Trim Finishes

	BW	BZ	CO	DW	HW	NN	WW
<b>611</b>	•	•	•	•	•	•	•
<b>612</b>	•	•	•	•	•	•	•
<b>618</b>	•	•	•	•	•	•	•

Example: **NRM-611L1230WW** = 6" Marquise I Round Open Reflector, 1250lm / 16W LED, 3000K, White Reflector / White Flange

## NRM-614 / NRM-617 / NRM-619

### 6" Marquise I Adjustable Reflectors

Source: 11W to 26W LED  
850lm to 2000lm

#### PRODUCT DESCRIPTION

Nora Lighting's 6" recessed downlight fixture solution with thermal management system combined in a single compact unit. CREE True White LED ceramic package and Unitized Thermal Management (UTM) system. Outboard mounted driver allows for cooler operation and extends life.

#### FEATURES

- 5-year Limited Warranty
- Cree TrueWhite® or Comfort Dim Technology
- 850lm, 1250lm or 2000lm LED packages
- 2700K, 3000K, 3500K and 4000K @ 90+CRI
- Certified to the Energy Commission as meeting high efficacy light source requirements

#### CONSTRUCTION

**Trim:** Aluminum spun reflector with deep set diffused lens for excellent visual comfort while providing high lumen output.

**Mounting:** Trim includes torsion springs to mount trim securely to housing.

#### ELECTRICAL

##### Delivered Lumens / Wattage:

**L85** = 870lm / 11W; **L12** = 1246lm / 16W;

**L20** = 1951lm / 26W

**Color Temperature:** 2700K, 3000K, 3500K, 4000K

**CRI:** 90+CRI

**Operating Temp.:** 0°C to 75°C ambient temperature

**Comfort Dim:** Comfort Dim color tunes the temperature from a bright 2700K, to a romantic and comfortable 1800K on a gradual, even curve.

Comfort Dim is available in 2 different lumen levels:

- 850 and 1250 Lumens for lower ceiling heights in commercial and residential applications.
- 2000 Lumens for light commercial and residential high ceiling applications.

**Dimming:** Specified by housing

#### COMPATIBLE HOUSINGS

Reflectors are compatible with respective Marquise I series housings manufactured by Nora Lighting.

#### CATALOG NO. DESCRIPTION

**NHM-612** 6" Non-IC New Construction (1250lm)

**NHM-620** 6" Non-IC New Construction (2000lm)

**NHRM-612** 6" Non-IC Remodel (1250lm)

**NHRM-620** 6" Non-IC Remodel (2000lm)

**NHMC-685** 6" IC New Construction (850lm)

**NHMC-685** 6" IC Remodel (850lm)

**NHMC-612** 6" IC Double Wall (1250lm)

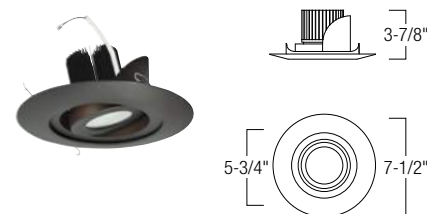
**NFBIC-6L** 6" IC Dedicated Fire Box (850 or 1250lm)

#### LABELS AND LISTINGS

- cULus Listed for Damp Location when used with compatible housing
- ENERGY STAR® certified
- Can be used to comply with 2016 Title 24 - part 6 High Efficacy LED light source requirements
- 5-Year Limited Warranty
- WSEC ASTM E283 for Air-Tight

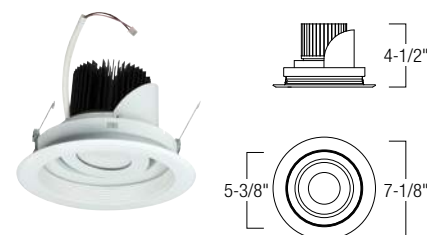


#### PRODUCT IMAGES AND DIMENSIONS



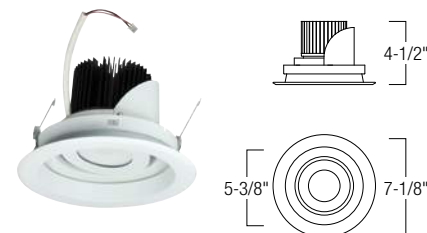
##### NRM-614 Surface Adjustable Reflector

B, BZ, C, CO, NN, WW



##### NRM-617 Regressed Baffle Adjustable

BW, BZ, CO, NN, WW



##### NRM-619 Regressed Reflector Adjustable

BW, BZ, CO, HZW, NN, WW

#### 6" Adjustable Marquise I Reflectors - Dedicated Housing Required

Reflector Type	Lumens / Wattage	Color Temp.	Finish (see chart below)
<b>NRM-614</b> = Surface Adjustable	<b>L85</b> = 850lm / 11W	<b>27</b> = 2700K	<b>B</b> = Black
<b>NRM-617</b> = Regress Baffle Adj.	<b>L12</b> = 1250lm / 16W	<b>30</b> = 3000K	<b>BW</b> = Black / White Flange
<b>NRM-619</b> = Regress Reflector Adj.	<b>L20</b> = 2000lm / 26W	<b>35</b> = 3500K	<b>BZ</b> = Bronze / Bronze Flange
		<b>40</b> = 4000K	<b>C</b> = Chrome
		<b>CD</b> = Comfort Dim	<b>CO</b> = Copper / Copper Flange
			<b>HZW</b> = Haze / White Flange
			<b>NN</b> = Natural Metal / Natural Metal Flange
			<b>WW</b> = White / White Flange

#### Available Trim Finishes

	B	BW	BZ	C	CO	HZW	NN	WW
<b>614</b>	•		•	•	•		•	•
<b>617</b>		•	•		•		•	•
<b>619</b>		•	•		•	•	•	•

Example: **NRM-614L1230BZ** = 6" Marquise I Surface Adjustable, 1250lm / 16W LED, 3000K, Bronze Finish

## NHMICD-612 / NHMICD-620

6" Marquise I IC Air-Tight Double Wall New Construction Housing

Source: 16W to 26W LED  
1250lm to 2000lm

### PRODUCT DESCRIPTION

Dedicated new construction housing for use in insulated ceilings can be in direct contact with thermal insulation. Air-tight construction provides energy savings by reducing the flow of air through the ceiling.

### CONSTRUCTION

**Plaster Frame:** 0.040 steel frame with integral bar hanger brackets. Brackets can accommodate longer 27" accessory flat bar hangers. Brackets run along all sides of frame to allow bar hangers to be run parallel or perpendicular to junction box.

**Housing:** 0.040 aluminum housing with riveted cap adjusts from 3/8" to 7/8". Spring brackets accept torsion wing trim springs; slots on socket plate surface accept standard coil springs.

**Air Flow Restriction:** Housing has factory installed gaskets to restrict airflow from room into ceiling plenum to <2CFM (cubic feet per minute) in accordance with ASTM-283 Air-Tight requirements.

**Clearance:** "IC" Insulated ceiling housings are direct contact rated; no minimum clearance is required.

**Bar Hangers:** Two 13-3/4" to 24-1/2" adjustable bar hangers with captive nails are included on frame. Bar hangers are parallel to junction box, but can be repositioned 90° perpendicular to junction box if desired. "L" Shaped bar hanger foot to align to bottom of construction joist. A T-Bar notch allow for easy installation in a suspended ceiling.

**Junction Box:** Prewired 25 cubic inch 0.064" thick galvanized steel, with five 1/2", two 3/4" knockouts, four Romex® pryouts, and snap on covers. All leads are #18AWG wire, the ground wire is connected to the bottom, and quick connectors are supplied on all leads. Through branch circuit wiring, (4-in, 4-out).

### ELECTRICAL

**Input Voltage:** 120V or 277V

**Delivered Lumens / Wattage:**

**NHMIC-612** = 1246lm / 16W;

**NHMIC-620** = 1951lm / 26W

**Operating Temp.:** 0°C to 75°C ambient temperature

**Comfort Dim:** Available in 1250lm & 2000lm

**Dimming:** Triac, ELV or 0-10V dimming

[Click Here](#) or check complete dimmer list at [www.NoraLighting.com](http://www.NoraLighting.com) in the "Compatibility" page under "Resources" tab

### Emergency LED Driver (BSL17C-C2)

- Requires access from above the ceiling
- Up to 7.5W emergency illumination with LEDs.
- Illumination Time: 90min
- Voltage: 120/277 VAC, 60Hz
- Output Voltage: 15.0-50.0 VDC

### COMPATIBLE REFLECTORS

#### CATALOG NO. DESCRIPTION

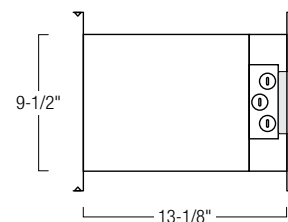
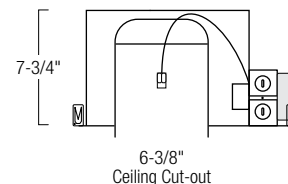
NRM-611	6" Round Open Reflector
NRM-612	6" Round Baffle
NRM-618	6" Round Deco Glass
NRM-614	6" Round Surface Adjustable
NRM-617	6" Round Regress Baffle Adjustable
NRM-619	6" Round Regress Reflector Adjustable

### LABELS AND LISTINGS

- cULus Listed for Damp Location w/ Feed Through
- cULus Wet Listed (Only with designated trims)
- Meets or exceeds ASTM-283 Air-Tight Requirements



### PRODUCT IMAGES AND DIMENSIONS



### 6" Marquise I IC Air-Tight Double Wall New Construction Housing - Compatible with Marquise I Reflectors

Installation Type / Lumens / Wattage	LED Module	Driver	Emergency
<b>NHMICD-612</b> = IC / 1250lm / 16W	<b>(blank)</b> = Cree TrueWhite®	<b>LE1</b> = 120V Input; Triac/ELV/0-10V dimming <sup>1</sup>	<b>EM</b> - Emergency Pack w/ Remote Test Switch
<b>NHMICD-620</b> = IC / 2000lm / 26W	<b>C</b> = Comfort Dim	<b>LE2</b> = 277V Input; 0-10V dimming <sup>1</sup>	
		<b>LE4</b> = 120V Input; Triac/ELV/0-10V dimming <sup>1</sup>	

<sup>1</sup> LE1 - 120V Triac/ELV dimming for 1250lm; 0-10V dimming for 2000lm (Note: when used with 1250lm Comfort Dim, only use ELV dimmers)

LE2 - 277V 0-10V dimming

LE4 - 120V Triac/ELV dimming for 2000lm; 0-10V dimming for 1250lm

Example: **NHMICD-620LE1** = 6" Marquise I IC Air-Tight Double Wall New Construction Housing, 2000lm / 26W LED, 120V Input

## NHM-612 / NHM-620 / NHMIC-685

### 6" Marquise I Air-Tight New Construction Housing

Source: 11W to 26W LED  
850lm to 2000lm

#### PRODUCT DESCRIPTION

Dedicated new construction housing for installation in Non-IC or insulated ceilings, must specify. Air-tight construction provides energy savings by reducing the flow of air through the ceiling.

#### CONSTRUCTION

**Plaster Frame:** 0.040 steel frame with integral bar hanger brackets. Brackets can accommodate longer 27" accessory flat bar hangers. Brackets run along all sides of frame to allow bar hangers to be run parallel or perpendicular to junction box.

**Housing:** 0.040 aluminum one-piece can. Adjustable ceiling thickness from 3/8" to 7/8".

**Air Flow Restriction:** Housing has factory installed gaskets to restrict airflow from room into ceiling plenum to <2CFM (cubic feet per minute) in accordance with ASTM-283 Air-Tight requirements.

**Bar Hangers:** Two 13-3/4" to 24-1/2" adjustable bar hangers with captive nails are included on frame. Bar hangers are parallel to junction box, but can be repositioned 90° perpendicular to junction box if desired. "L" Shaped bar hanger foot to align to bottom of construction joist. A T-Bar notch allow for easy installation in a suspended ceiling.

**Junction Box:** Prewired 25 cubic inch 0.064" thick galvanized steel, with seven 1/2" knockouts, four Romex® pryouts, and snap on covers. All leads are #18AWG wire, the ground wire is connected to the bottom, and quick connectors are supplied on all leads. Through branch circuit wiring, (4-in, 4-out).

#### CLEARANCE

**Non-IC:** Non-Insulated housings require a minimum clearance of 3" from thermal insulation and 1/2" from adjacent building components.

**IC:** Insulated ceiling housings are direct contact rated; no minimum clearance is required.

#### ELECTRICAL

**Input Voltage:** 120V or 277V

**Delivered Lumens / Wattage:**

**NHMIC-685** = 870lm / 11W;

**NHM-612** = 1246lm / 16W;

**NHM-620** = 1951lm / 26W

**Operating Temp.:** 0°C to 75°C ambient temperature

**Comfort Dim:** Available in 850-2000lm

**Dimming:** Triac, ELV or 0-10V dimming

[Click Here](#) or check complete dimmer list at [www.NoraLighting.com](http://www.NoraLighting.com) in the "Compatibility" page under "Resources" tab

#### Emergency LED Driver (BSL17C-C2)

- Up to 7.5W emergency illumination with LEDs.
- Illumination Time: 90min
- Voltage: 120/277 VAC, 60Hz
- Output Voltage: 15.0-50.0 VDC

#### COMPATIBLE REFLECTORS

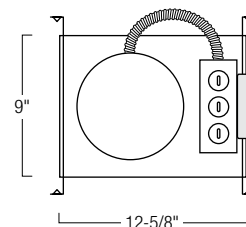
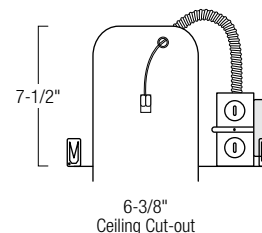
CATALOG NO.	DESCRIPTION
NRM-611	6" Round Open Reflector
NRM-612	6" Round Baffle
NRM-618	6" Round Deco Glass
NRM-614	6" Round Surface Adjustable
NRM-617	6" Round Regress Baffle Adjustable
NRM-619	6" Round Regress Reflector Adjustable

#### LABELS AND LISTINGS

- cULus Listed for Damp Location w/ Feed Through
- cULus Wet Listed (Only with designated trims)
- Meets or exceeds ASTM-283 Air-Tight Requirements



#### PRODUCT IMAGES AND DIMENSIONS



### 6" Marquise I Air-Tight New Construction Housing - Compatible with Marquise I Reflectors

Installation Type / Lumens / Wattage	LED Module	Driver / Dimming	Emergency
<b>NHMIC-685</b> = IC / 850lm / 11W	<b>(blank)</b> = Cree TrueWhite®	<b>LE1</b> = 120V Input; Triac/ELV/0-10V dimming <sup>1</sup>	<b>EM</b> - Emergency Pack w/ Remote Test Switch
<b>NHM-612</b> = Non-IC / 1250lm / 16W	<b>C</b> = Comfort Dim	<b>LE2</b> = 277V Input; 0-10V dimming <sup>1</sup>	
<b>NHM-620</b> = Non-IC / 2000lm / 26W		<b>LE4</b> = 120V Input; Triac/ELV/0-10V dimming <sup>1</sup>	

<sup>1</sup> LE1 - 120V Triac/ELV dimming for 850-1250lm; 0-10V dimming for 2000lm (Note: when used with 850lm-1250lm Comfort Dim, only use ELV dimmers)

LE2 - 277V 0-10V dimming

LE4 - 120V Triac/ELV dimming for 2000lm; 0-10V dimming for 850-1250lm

Example: **NHMIC-685LE1** = 6" Marquise I IC Air-Tight New Construction Housing, 850lm / 11W LED, 120V Input



## NHRM-612 / NHRM-620 / NHRMIC-685

6" Marquise I Air-Tight Remodel Housing

Source: 11W to 26W LED  
850lm to 2000lm

### PRODUCT DESCRIPTION

Dedicated remodel housing for use in Non-IC or insulated ceilings, must specify. Air-tight construction provides energy savings by reducing the flow of air through the ceiling.

### CONSTRUCTION

**Housing:** 0.040 aluminum housing adjusts to a maximum ceiling thickness of 5/8" (16mm). Housing terminates at a 1/4" ceiling flange for even positioning of housing angle within the ceiling. Structural arm consists of 0.050 steel and connects to housing with j-box and ballast. Integral springs brackets provided.

**Air Flow Restriction:** Housing has factory installed gaskets to restrict airflow from room into ceiling plenum to <2CFM (cubic feet per minute) in accordance with ASTM-283 Air-Tight requirements.

**Mounting:** Four high tension tempered steel springs secure remodel housing to 5/8" thick (max) ceiling (Hole cutout template provided for convenience).

**Junction Box:** Prewired 25 cubic inch 0.064" thick galvanized steel, with five 1/2", two 3/4" knockouts, four Romex® pryouts, and snap on covers. All leads are #18AWG wire, the ground wire is connected to the bottom, and quick connectors are supplied on all leads. Through branch circuit wiring, (4-in, 4-out).

### CLEARANCE

**Non-IC:** Non-Insulated housings require a minimum clearance of 3" from thermal insulation and 1/2" from adjacent building components.

**IC:** Insulated ceiling housings are direct contact rated; no minimum clearance is required.

### ELECTRICAL

**Input Voltage:** 120V or 277V

**Delivered Lumens / Wattage:**

**NHRMIC-685** = 870lm / 11W;

**NHRM-612** = 1246lm / 16W;

**NHRM-620** = 1951lm / 26W

**Operating Temp.:** 0°C to 75°C ambient temperature

**Comfort Dim:** Available in 850-2000lm

**Dimming:** Triac, ELV or 0-10V dimming

[Click Here](#) or check complete dimmer list at [www.NoraLighting.com](http://www.NoraLighting.com) in the "Compatibility" page under "Resources" tab

### Emergency LED Driver (BSL17C-C2)

- Up to 7.5W emergency illumination with LEDs.
- Illumination Time: 90min
- Voltage: 120/277 VAC, 60Hz
- Output Voltage: 15.0-50.0 VDC

### COMPATIBLE REFLECTORS

#### CATALOG NO. DESCRIPTION

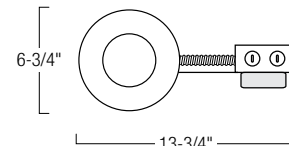
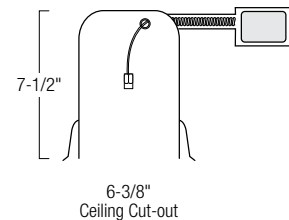
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### LABELS AND LISTINGS

- cULus Listed for Damp Location w/ Feed Through
- cULus Wet Listed (Only with designated trims)
- Meets or exceeds ASTM-283 Air-Tight Requirements



### PRODUCT IMAGES AND DIMENSIONS



### 6" Marquise I Air-Tight Remodel Housing - Compatible with Marquise I Reflectors

Installation Type / Lumens / Wattage	LED Module	Driver	Emergency
<b>NHRMIC-685</b> = IC / 850lm / 11W	<b>(blank)</b> = Cree TrueWhite®	<b>LE1</b> = 120V Input; Triac/ELV/0-10V dimming <sup>1</sup>	<b>EM</b> - Emergency Pack w/ Remote Test Switch
<b>NHRM-612</b> = Non-IC / 1250lm / 16W	<b>C</b> = Comfort Dim	<b>LE2</b> = 277V Input; 0-10V dimming <sup>1</sup>	
<b>NHRM-620</b> = Non-IC / 2000lm / 26W		<b>LE4</b> = 120V Input; Triac/ELV/0-10V dimming <sup>1</sup>	

<sup>1</sup> LE1 - 120V Triac/ELV dimming for 850-1250lm; 0-10V dimming for 2000lm (Note: when used with 850lm-1250lm Comfort Dim, only use ELV dimmers)

LE2 - 277V 0-10V dimming

LE4 - 120V Triac/ELV dimming for 2000lm; 0-10V dimming for 850-1250lm

Example: **NHRMIC-685LE1** = 6" Marquise I IC Air-Tight Remodel Housing, 850lm / 11W LED, 120V Input

## NFBIC-6L85AT / NFBIC-6L12AT

6" Marquise I IC Air-Tight Housing - 2 Hour Fire &amp; Sound Dampening Rated

Source: 11W to 16W LED  
850lm to 1250lm

### PRODUCT DESCRIPTION

Specification grade fire-rated new construction housing. The double wall fixture incorporates a non-combustible fiber insulation to prevent passage of flames, toxic gases, ignitable gasses into ceiling plenums. The cULus listed housing is rated for a minimum of 2 hours protection. The noncombustible fiber fill also acts as sound deadening material eliminating the transfer of sound between floors. Suitable for commercial, multi-family and residential applications.

### FEATURES

- Rated for direct contact with insulation
- cULus classified 2 Hour Fire Rating
- cULus Wet Listed (Only with designated trims)
- cULus listed for damp location and through branch circuit wiring
- Quick connect provided
- 24-1/2" Bar hangers with captive nails and alignment foot
- Accommodates 1-3/4" maximum ceiling thickness

### CONSTRUCTION

**Plaster Frame:** High quality 0.03" steel die cut one piece frame.

**Housing:** Die formed 20 guage galvanized steel construction. Housing interior is comprised of a flexible non-combustible insulation.

**Air Flow Restriction:** Housing has factory installed gaskets to restrict airflow from room into ceiling plenum to <2CFM (cubic feet per minute) in accordance with ASTM-283 Air-Tight requirements.

**Bar Hangers:** Two 13-3/4" to 24-1/2" adjustable bar hangers with captive nails are included on frame. Bar hangers are parallel to junction box, but can be repositioned 90° perpendicular to junction box if desired. "L" Shaped bar hanger foot to align to bottom of construction joist. A T-Bar notch allow for easy installation in a suspended ceiling.

**Junction Box:** Prewired 0.03" thick galvanized steel, with seven 1/2" knockouts, four Romex® pryouts, and snap on covers. All leads are #18AWG wire, the ground wire is connected to the bottom, and quick connectors are supplied on all leads. Through branch circuit wiring, (4-in, 4-out).

**Quick Connect Feature:** Housing contains three UL approved quick connections that allow insertion of 1/4" stripped solid or tinned standard conductors to be inserted into the connector. Connectors are pre-attached to fixture power, common, and ground circuits.

**Thermal Protector:** Standard UL thermal protector rated for 90°C is affixed to inner top surface of housing.

**Installation:** Number of luminaires not to exceed the ratio, one per 25sq ft of the total ceiling area, with minimum separation of 3ft between luminaires.

**Comfort Dim:** Nora Lighting introduces Comfort Dim™, a warm new lumen range that creates a candlelight ambiance in dining rooms, restaurants, cineplexes, home theatres, multipurpose venues and other facilities. Comfort Dim color tunes the temperature from a bright 2700K to a soft and comfortable 1800K on a gradual even curve.

### ELECTRICAL

**Input Voltage:** 120V or 277V

**Delivered Lumens / Wattage:**

**L85** = 870lm / 11W; **L12** = 1246lm / 16W

**Operating Temp.:** 0°C to 75°C ambient temperature

**Comfort Dim:** Available in 850lm-1250lm

**Dimming:** Triac, ELV or 0-10V dimming

[Click Here](#) or check complete dimmer list at [www.NoraLighting.com](http://www.NoraLighting.com) in the "Compatibility" page under "Resources" tab

### COMPATIBLE REFLECTORS

#### CATALOG NO. DESCRIPTION

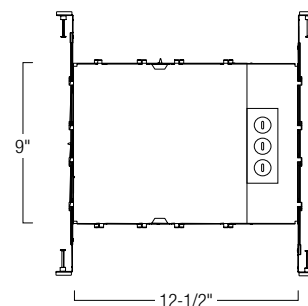
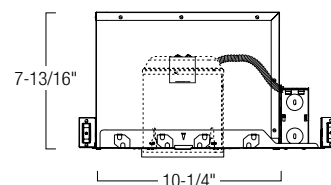
NRM-611	6" Round Open Reflector
NRM-612	6" Round Baffle
NRM-618	6" Round Deco Glass
NRM-614	6" Round Surface Adjustable
NRM-617	6" Round Regress Baffle Adjustable
NRM-619	6" Round Regress Reflector Adjustable

### LABELS AND LISTINGS

- UL Classified. Two Hour Fire Rating
- cULus Listed for Damp Location w/ Feed Through
- cULus Wet Listed (Only with designated trims)
- Meets or exceeds ASTM-283 Air-Tight Requirements
- ANSI/UL 263
- ANSI/UL 1598



### PRODUCT IMAGES AND DIMENSIONS



### 6" Marquise I LED Firebox - Compatible with Marquise I Reflectors

Installation Type / Lumens / Wattage	LED Module	Driver
<b>NFBIC-6L85AT</b> = IC / 850lm / 11W	<b>(blank)</b> = Cree TrueWhite®	<b>1</b> = 120V Input; Triac/ELV dimming <sup>1</sup>
<b>NFBIC-6L12AT</b> = IC / 1250lm / 16W	<b>C</b> = Comfort Dim	<b>2</b> = 277V Input; 0-10V dimming
		<b>4</b> = 120V Input; 0-10V dimming

<sup>1</sup> When used with Comfort Dim, only use ELV dimmers

Example: NFBIC-6L12AT1 = 6" Marquise I LED Firebox Housing, 1250lm / 16W LED, 120V Input

## PHOTOMETRICS

### 6" Marquise I Series

#### Test Information

Test Number: 727354

Part Number: NRM-611L2040DW

Lumens: 1798lm

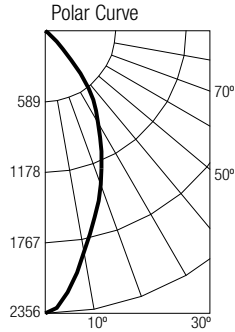
Wattage: 25W

Efficacy: 72lpw

CCT / CRI: 4000K / 90 CRI

Spacing Criteria (0°-180): 0.7

Spacing Criteria (90°-270): 0.7



#### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	147fc	3'-6"
6'	65.4fc	5'-4"
8'	36.8fc	7'
10'	23.6fc	8'-10"
12'	16.4fc	10'-6"

#### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1159	64.5
0-40	1589	88.4
0-60	1798	100
0-90	1798	100
90-180	0	0
0-180	1798	100

#### Candela Table

Vertical Angles	Candela
0	2356
5	2190
15	1607
25	1110
35	701
45	210

#### Test Information

Test Number: 727389

Part Number: NRM-612L2040WW

Lumens: 1721lm

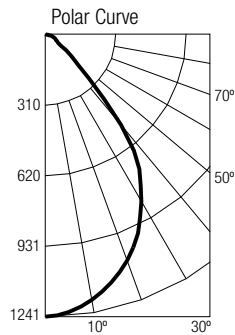
Wattage: 25W

Efficacy: 69lpw

CCT / CRI: 4000K / 90 CRI

Spacing Criteria (0°-180): 1.06

Spacing Criteria (90°-270): 1.06



#### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	77.5fc	6'-2"
6'	34.5fc	9'-5"
8'	19.4fc	12'-6"
10'	12.4fc	15'-7"
12'	8.6fc	18'-8"

#### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	874	50.8
0-40	1316	76.5
0-60	1629	94.7
0-90	1721	100
90-180	0	0
0-180	1721	100

#### Candela Table

Vertical Angles	Candela
0	1241
5	1224
15	1126
25	964
35	723
45	277

#### Test Information

Test Number: 727401

Part Number: NRM-614L2040WW

Lumens: 1951lm

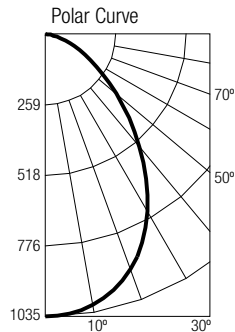
Wattage: 25W

Efficacy: 78lpw

CCT / CRI: 4000K / 90 CRI

Spacing Criteria (0°-180): 1.12

Spacing Criteria (90°-270): 1.12



#### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	64.7fc	7'
6'	28.8fc	10'-6"
8'	16.2fc	13'-11"
10'	10.4fc	17'-5"
12'	7.2fc	20'-11"

#### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	757	38.8
0-40	1161	59.5
0-60	1732	88.8
0-90	1951	100
90-180	0	0
0-180	1951	100

#### Candela Table

Vertical Angles	Candela
0	1035
5	1028
15	972
25	843
35	648
45	435

## 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.

## 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.

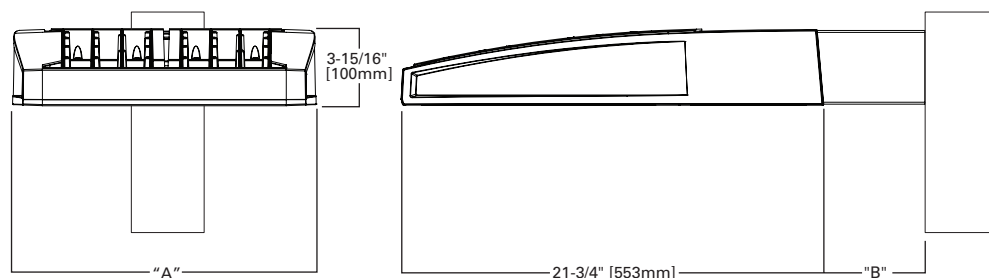


## GLEON GALLEON LED

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

**AREA/SITE LUMINAIRE**

## DIMENSIONS

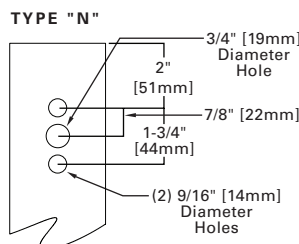


### DIMENSION DATA

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

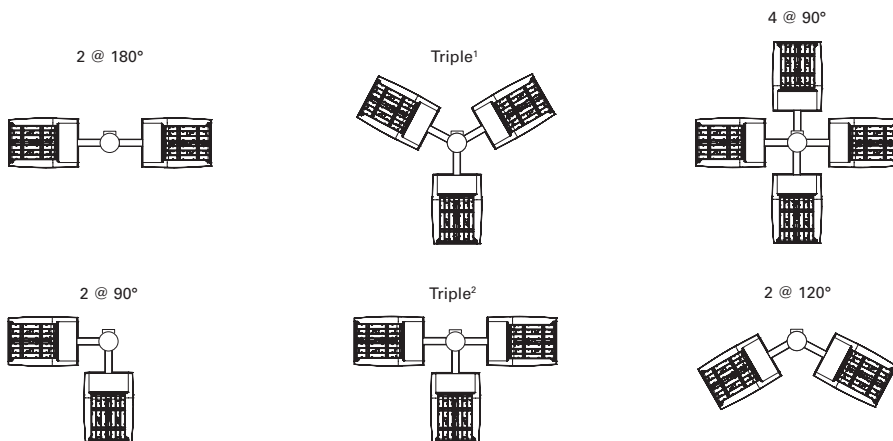
UL/cUL Wet Location Listed  
ISO 9001  
LM79 / LM80 Compliant  
3G Vibration Rated  
IP66 Rated  
DesignLights Consortium™ Qualified\*

### 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)

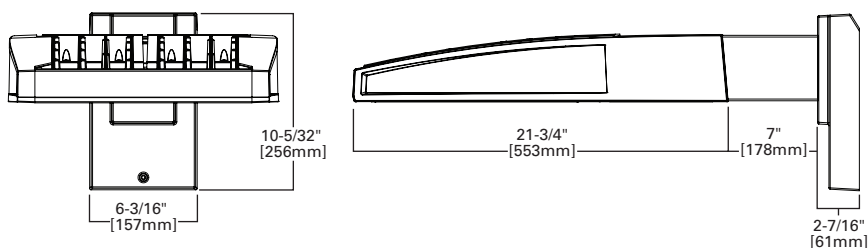
## ARM MOUNTING REQUIREMENTS

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)

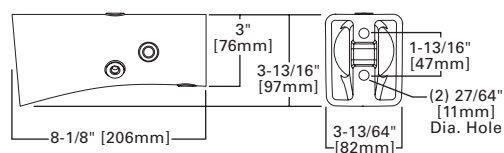


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

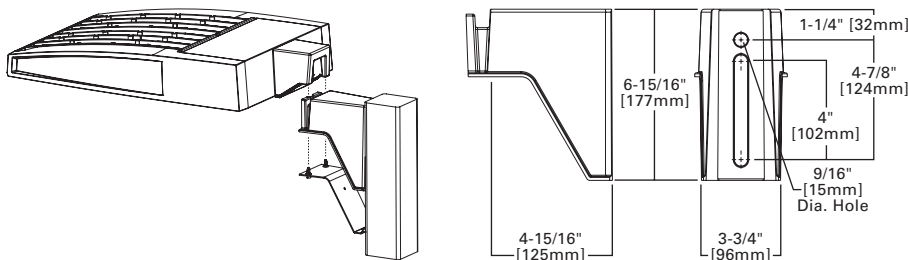
## STANDARD WALL MOUNT



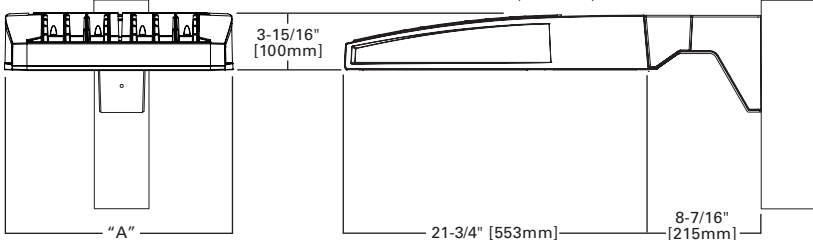
## MAST ARM MOUNT



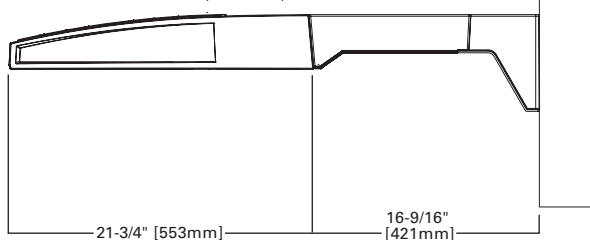
## QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



QM Quick Mount Arm (Standard)



QMEA Quick Mount Arm (Extended)



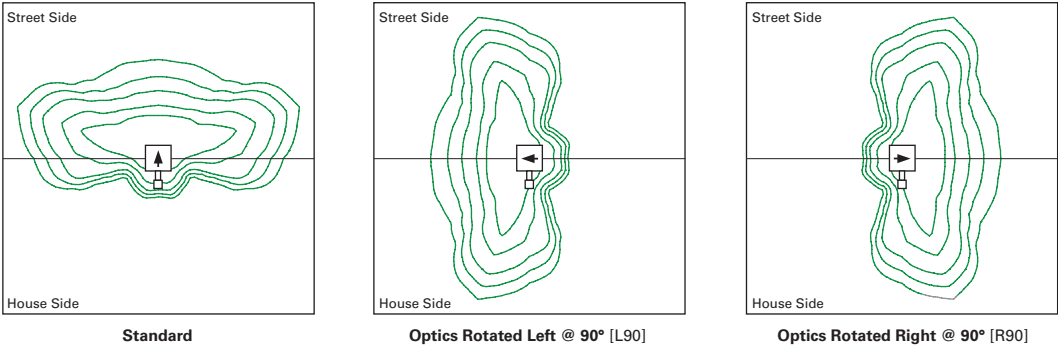
## QUICK MOUNT ARM DATA

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.)	

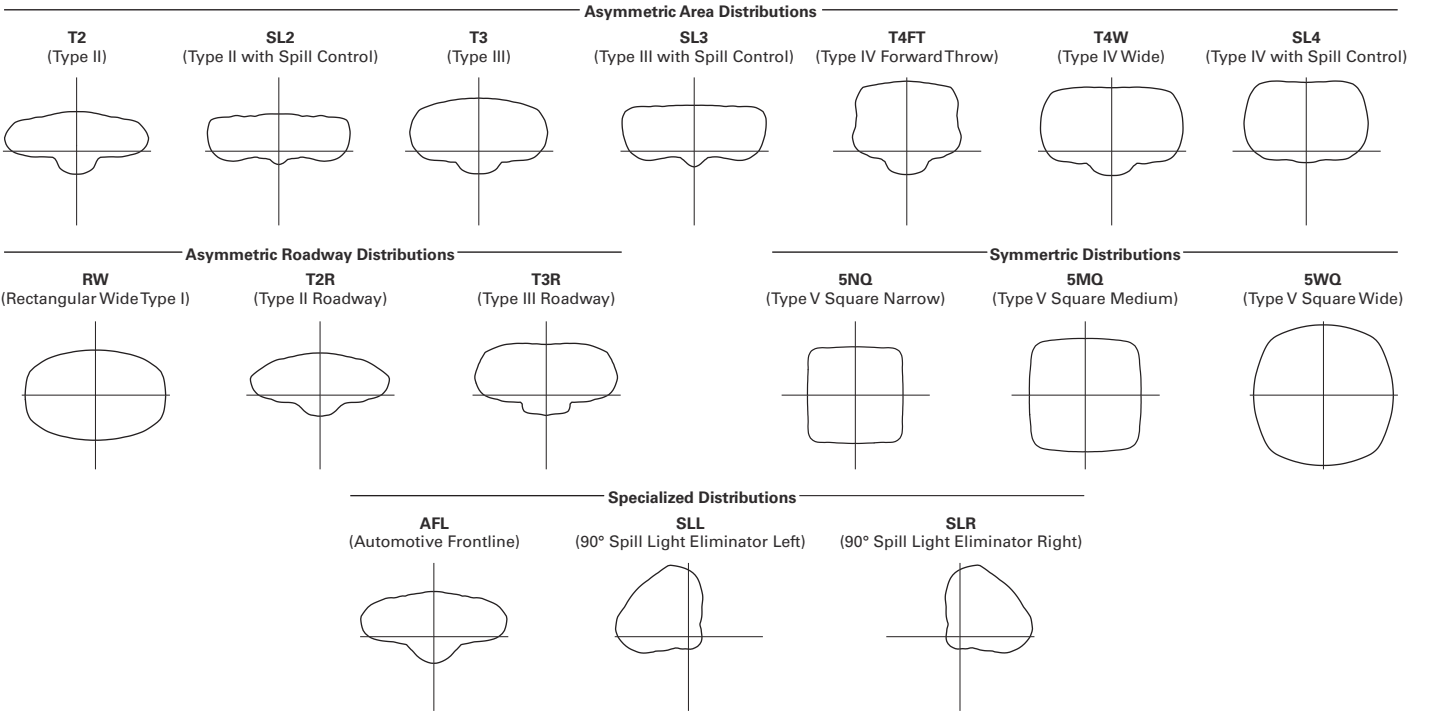
NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.



OPTIC ORIENTATION



OPTICAL 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

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 <sup>4</sup> 08=8 <sup>4</sup> 09=9 <sup>5</sup> 10=10 <sup>5</sup>	LED=Solid State Light Emitting Diodes	E1=(120-277V) 347=347V <sup>6</sup> 480=480V <sup>6,7</sup>	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=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 <sup>8</sup> MA=Mast Arm Adapter <sup>9</sup> WM=Wall Mount QM=Quick Mount Arm (Standard Length) <sup>10</sup> QMEA=Quick Mount Arm (Extended Length) <sup>11</sup>
Options (Add as Suffix)					Accessories (Order Separately)		
2L=Two Circuits <sup>12,13</sup> 7030=70 CRI / 3000K <sup>14</sup> 8030=80 CRI / 3000K <sup>15</sup> 7050=70 CRI / 5000K <sup>15</sup> 7060=70 CRI / 6000K <sup>14</sup> 530=Drive Current Factory Set to 530mA <sup>16</sup> 700=Drive Current Factory Set to 700mA <sup>16</sup> P=Button Type Photocontrol (120, 208, 240 or 277V) PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle R=NEMA Twistlock Photocontrol Receptacle HA=50°C High Ambient <sup>13,17</sup> MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height <sup>18,19,20,21,22</sup> MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>18,19,20,21,22</sup> MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>18,19,20,21</sup> MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) <sup>18,19,20,21,25</sup> MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height <sup>18,19,20,21,22,26</sup> MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height <sup>18,19,20,21,23,26</sup> MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height <sup>18,19,20,21,24,26</sup> MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) <sup>18,19,20,21,25,26</sup> MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height <sup>18,19,20,21,22</sup> MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height <sup>18,19,20,21,23</sup> MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height <sup>18,19,20,21,24</sup> MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) <sup>18,19,20,25</sup> DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height <sup>27</sup> DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>27</sup> L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing <sup>28</sup> HSS=Factory Installed House Side Shield <sup>29</sup> CE=CE Marking <sup>30</sup>					OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>31</sup> GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares GLEON-QM=Quick Mount Arm Kit <sup>10</sup> GLEON-QM-EA=Quick Mount Extended Length Arm Kit <sup>11</sup> LS/HSS=Field Installed House Side Shield <sup>28,32</sup>		

## NOTES:

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- 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 (QM) 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 Phase 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-ROUT-1 in appropriate quantities. See [www.eaton.com/lighting](http://www.eaton.com/lighting) for LumaWatt application information.
- Not available with house side shield (HSS).
- Only for use 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 PER7 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.



## DESCRIPTION

The Concise™ LED luminaire features a rugged and low profile housing construction incorporating patent pending, modular LED LightBAR™ technology. Through superior optical control, the Concise luminaire delivers uniform and energy conscious illumination optimized to improve vehicular movement and pedestrian safety. UL/cUL listed for wet locations.

Catalog #		Type
Project		
Comments		Date
Prepared by		

## SPECIFICATION FEATURES

### Construction

One-piece, low copper die-cast aluminum housing features heavy wall construction for superior heat transfer and resistance to corrosion. Formed aluminum faceplate is secured via four stainless steel fasteners and is recessed for clean mating of door and housing. Optional tamper-proof Torx™-head fasteners offer vandal resistant access to the electrical compartment.

### Optics

Choice of nine 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. 480V is compatible for use with 480V Wye systems only. Greater than 0.9 power factor, less than 20% harmonic distortion, and is 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. Occupancy sensor and dimming options available.

### Mounting

Standard fixture mounts to a square or octagonal 4" surface or recessed j-box via heavy gauge painted quick mount box complete with toolless removable cable allowing for hands-free fixture wiring. Single carton packaging of

housing and quick mounting box for contractor friendly arrival of product to site. Optional mounting methods include rigid or free swinging pendant, trunnion mount and wall mount and surface mount configurations.

### Finish

Cast components and mounting box finished in a 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.

### Warranty

Five-year warranty.



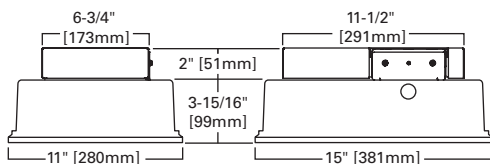
## CNC CONCISE LED

1 - 4 LightBARs  
Solid State LED

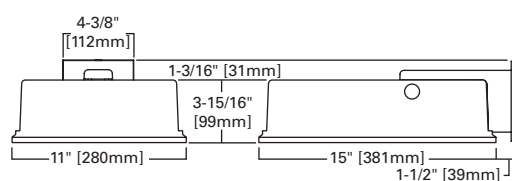
CANOPY LUMINAIRE

## MOUNTING METHODS

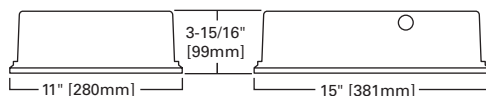
### J-Box Mount [Standard]



### Wall Mount [WM]



### Surface Mount [SM]



## CERTIFICATION DATA

UL/cUL Listed  
LM79 / LM80 Compliant  
IP65 Fixture Rating  
IP66 LightBARs  
ISO 9001

## ENERGY DATA

### Electronic LED Driver

>0.9 Power Factor  
<20% Total Harmonic Distortion  
120V-277V/50 & 60Hz, 347V/60Hz,  
480V/60Hz  
-40°C Minimum Temperature  
40°C Ambient Temperature Rating  
50°C Ambient Temperature Rating (HA option)

## SHIPPING DATA

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

## POWER AND LUMENS BY BAR COUNT (21 LED LIGHTBARS)

Number of LightBARS		E01	E02	E03	E04
Drive Current		350mA Drive Current			
Power (Watts)		25W	52W	75W	97W
Current @ 120V (A)		0.22	0.44	0.63	0.82
Current @ 277V (A)		0.10	0.20	0.28	0.36
Power (Watts)		31W	58W	82W	99W
Current @ 347V (A)		0.11	0.19	0.28	0.29
Current @ 480V (A)		0.09	0.15	0.20	0.21
CQ	Lumens	3,108	6,215	9,323	12,431
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2
SQ	Lumens	3,066	6,131	9,197	12,262
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2
WQ	Lumens	3,092	6,184	9,276	12,368
	BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B4-U0-G3
GL2	Lumens	2,928	5,856	8,784	11,712
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2
GL3	Lumens	2,969	5,937	8,906	11,875
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2
GL4	Lumens	2,882	5,764	8,646	11,528
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2
RW	Lumens	3,004	6,007	9,011	12,015
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3
CPL/CPR	Lumens	2,693	5,387	8,080	10,774
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3

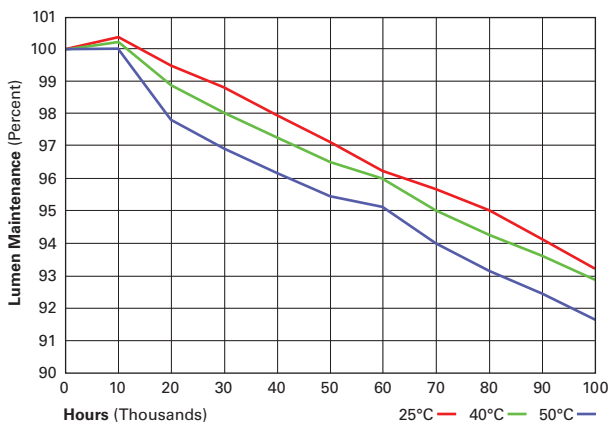
## POWER AND LUMENS BY BAR COUNT (7 LED LIGHTBARS)

Number of LightBARS		F01	F02	F03	F04
Drive Current		1A Drive Current			
Power (Watts)		26W	55W	78W	102W
Current @ 120V (A)		0.22	0.46	0.66	0.86
Current @ 277V (A)		0.10	0.21	0.29	0.37
Power (Watts)		32W	60W	85W	105W
Current @ 347V (A)		0.11	0.19	0.28	0.30
Current @ 480V (A)		0.09	0.15	0.21	0.22
CQ	Lumens	2,565	5,131	7,696	10,262
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2
SQ	Lumens	2,531	5,061	7,592	10,123
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2
WQ	Lumens	2,553	5,105	7,658	10,210
	BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B4-U0-G3
GL2	Lumens	2,417	4,834	7,251	9,668
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2
GL3	Lumens	2,451	4,901	7,352	9,803
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2
GL4	Lumens	2,379	4,758	7,138	9,517
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2
RW	Lumens	2,480	4,959	7,439	9,918
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3
CPL/CPR	Lumens	2,224	4,447	6,671	8,894
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3

## 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.

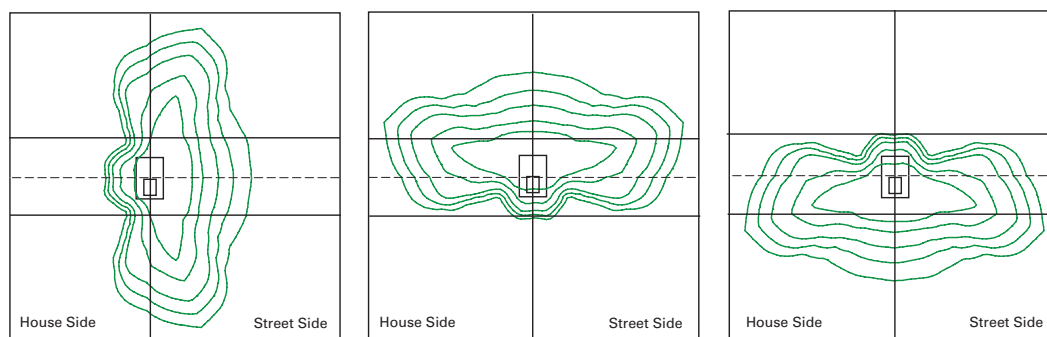


## LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99
50°C	0.96

## OPTIC ORIENTATION

Dotted lines represent driving lanes.



## ORDERING INFORMATION

Sample Number: CNC-E04-LED-E1-SQ-TW

Product Family	Number of LightBARs <sup>1,2</sup>	Lamp Type	Voltage	Distribution	Color
CNC=Concise	<b>E01</b> =(1) 21 LED LightBAR <sup>3</sup> <b>E02</b> =(2) 21 LED LightBARs <b>E03</b> =(3) 21 LED LightBARs <b>E04</b> =(4) 21 LED LightBARs <b>F01</b> =(1) 7 LED LightBAR <sup>3</sup> <b>F02</b> =(2) 7 LED LightBARs <b>F03</b> =(3) 7 LED LightBARs <b>F04</b> =(4) 7 LED LightBARs	LED=Solid State Light Emitting Diodes	<b>E1</b> =Electronic (120V-277V) <b>347</b> =347V <b>480</b> =480V <sup>4</sup>	<b>CQ</b> =Concentrated Type V Square <b>SQ</b> =Type V Square <b>WQ</b> =Wide Type V Square <b>GL2</b> =Type II w/Glare Control <b>GL3</b> =Type III w/Glare Control <b>GL4</b> =Type IV w/Glare Control <b>RW</b> =Rectangular <b>CPL</b> =90° Forward Throw Perimeter Left <b>CPR</b> =90° Forward Throw Perimeter Right	<b>AP</b> =Grey <b>BZ</b> =Bronze <b>BK</b> =Black <b>DP</b> =Dark Platinum <b>GM</b> =Graphite Metallic <b>TW</b> =True White
Options (Add as Suffix)					Accessories (Order Separately)
<b>DIM</b> =0-10V Dimming Drivers <sup>5</sup> <b>HA</b> =50°C High Ambient Temperature Rating <sup>6</sup> <b>2L</b> =Two Circuits <sup>7,8</sup> <b>WM</b> =Wall Mount <b>L90</b> =Optics Rotated 90° Left <b>R90</b> =Optics Rotated 90° Right <b>TR</b> =Tamper-Resistant Fasteners <b>TMB</b> =Trunnion Mount with Connection Box (Some Assembly Required)					<b>MA1253</b> =10kV Circuit Module Replacement <b>RV/WG</b> =Field-Installed Wire Guard

## NOTES:

- Standard 4000K CCT and greater than 70CRI.
- 21 LED LightBAR powered at 350mA, 7 LED LightBAR powered at 1A.
- Not available with 2L two circuits option.
- 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).
- Not available with HA option. Not available in E04 or F04 with 347V or 480V.
- Not available in models with E04 or F04.
- Available in models with E02-E04, or F02-F04. Low-level output varies by bar count specified. Consult factory.
- Consult factory before ordering in combination with OSX option.
- Surface mount configuration limited to 25°C ambient conditions.
- Lead times apply. See website for IES files.
- Available with E01 and F01 configurations only. Rated for 25°C ambient operating temperature.
- Housed in external box mounted to the luminaire. Available in E02-E04 and F02-F04 configurations. Replace X with number of LightBARs (e.g., OS2) controlled by the occupancy sensor, default time delay setting is 15-minutes. Standard lens covers up to 12' mounting height, 360° and maximum 20' diameter. For other configurations, consult customer service.



# A850SRLED OLD TOWN SERIES

LED

CLICK  
FOR FAQ's



EPA  
1.21 (ft<sup>2</sup>)  
WEIGHT  
32 LBS

RATED  
IP65  
IP 65

LUMEN  
RANGE  
2570 to  
10845

LIFE  
SPAN  
L70  
UP TO  
100,000  
HOURS

7 YEAR  
WARRANTY  
7



JOB NAME

FIXTURE TYPE

MEMO

## BUILD A PART NUMBER

ORDERING EXAMPLE: **2A-A850SRLED-5P-4ARC45T5-MDH03-A-PEC-FHD/480PM/4212FP4/BKT**

Mounting Config.	Fixture	Fitter	LED	CCT	Type	Driver	Lens	Option Photocontrol	Option Term. Block	Option GFI	Option Fuse	Option House Side Shield	Option Deco. Ring	Arm See Arm Spec Sheets	Pole See Pole Spec Sheets	Finish

### Mounting Configuration

(Click here to link to mounting configuration specification page)

- IW • 2A • 3A90 • 1AM
- PT • 2A90 • 3APT • 2AM
- 1A • 2APT • 4A • 450PB
- 1APT • 3A • 4APT

W = Wall Mount PT = Post Top APT = Post Top Arm Mid-Mount A = Arm Mount AM = Arm Mid-Mount PB = Pier Base

### Fixture

- A850SRLED

### Fitter

- 5P<sup>1</sup> • 991<sup>1</sup> • 995<sup>1</sup> • OLF3<sup>1</sup>
- 73 • 992<sup>1</sup> • BD4 • OLF4<sup>1</sup>
- 74 • 993<sup>1</sup> • BD5 • 588
- 990<sup>1</sup> • 994<sup>1</sup> • BD7 • C2097<sup>1</sup>

<sup>1</sup> Add "T" after fitter designation for optional "Twist-lock" fitter.

### LED

- 6ARC • 4ARC • 3ARC • 2ARC

### CCT - Color Temperature (K)

- 45(OO) • 35(OO) • 27(OO)

### Type

- T2 • T3 • T3R • T4 • T5

### Driver

- MDL03 (120v-277v, 350Ma)
- MDH03 (347v-480v, 350Ma)
- MDL05 (120v-277v, 525Ma)
- MDH05 (347v-480v, 525Ma)

### Lens

- A (Acrylic) • P (Polycarbonate)

### Options

- PEC Electronic Photocontrol (120v-277v)
- R<sup>2</sup> Receptacle Only for Twist-Lock Photocontrol
- R1<sup>2</sup> Twist-Lock Photocontrol & Receptacle (120v-277v)
- SRR Solid Roof: Receptacle Only for Twist-Lock Photocontrol
- SRR1 Solid Roof: Twist-Lock Photocontrol & Receptacle (120v-277v); 3-PIN

- TB<sup>2</sup> Terminal Block
- G<sup>2</sup> 15A Duplex GFI for Utility Fitter
- FHD<sup>3</sup> Double Fuse and Holder
- HSS House Side Shield
- IHSS Internal House Side Shield
- CDRCL<sup>4</sup> Cast Decorative Ring with Custom Logo
- CDR Cast Decorative Ring
- PBDR<sup>5</sup> Perforated Brass Decorative Ring

<sup>2</sup> For 900 series utility fitter only. <sup>3</sup> Ships loose for installation in base. <sup>4</sup> Consult factory for specification details.

<sup>5</sup> Standard is polished, for painted ring specify PBDR-P.

### Arm (Click here to link to arm specification page)

See Arms & Wall Brackets specification sheets.

- 50 • 70 • 480 • 6236 • TA • BA
- 478 • 80 • 55 • 579 • TASCR

### Pole (Click here to link to pole specification page)

See Pole specification sheets.

### Finish (Click here to view paint finish sheet)

#### Standard Finishes<sup>6</sup>

- BKT Black Textured
- WHT White Textured
- PGT Park Green Textured
- ABZT Architectural Medium Bronze Textured
- DBT Dark Bronze Textured

<sup>6</sup> Smooth finishes are available upon request.

#### Custom Finishes<sup>7</sup>

- CM Custom Match
- OI Old Iron
- RT Rust
- WBR Weathered Brown
- CD Cedar
- WBK Weathered Black
- TT Two Tone

<sup>7</sup> Custom colors require upcharge.

#### Sternberg Select Finishes

- VG Verde Green
- SI Swedish Iron
- OWGT Old World Gray Textured

## Specifications

### Fixture

The luminaire shall be 16" diameter and 40-1/2". The acorn shall be supplied with a cast aluminum finial and a solid, cast aluminum roof which includes optimized heat sinks to provide maximum life and performance for the LED light sources. The acorn shall be sealed to the cast aluminum roof to provide a moisture-free and bug-free optics chamber for the LED light sources and Rated IP65.

### Fitter - Standard

The fitter shall be heavy wall cast aluminum, 356 alloy for high tensile strength. It shall have an 8-1/2" inside diameter opening to attach to the 8" neck of the acorn globe. When ordered with a Sternberg aluminum pole, the fitter shall be welded to the pole top or tenon for safety and to ensure the fixture will be plumb, secure and level over the life of the installation. The fitter shall have a one-piece ring bug gasket to resist insect penetration into lamp assembly.

### 900 Series Utility Fitter Option

The fitter shall be heavy wall cast aluminum, 360 die cast alloy for high tensile strength. It shall have a 9-1/4" inside diameter opening to attach to the 8" neck of the acorn globe. It shall have a hinged, tool-less entry door that provides open access to all of the components. The 900 series shall have an optional terminal block for ease of wiring, an optional Twist-Lock Photocontrol receptacle, an optional single GFCI outlet for auxiliary power needs. The top mounted ballast mounting plate shall be cast aluminum and provide tool-less removal from the housing using 2 finger latches. When ordered with a Sternberg aluminum pole, the fitter shall be set screwed to the pole top or tenon. The fitter shall have a one-piece ring bug gasket to resist insect penetration into lamp assembly. When supplied with GFI receptacle a hole will be provided for cord and plug installation with the access door closed. When cord and plug is not in use a filler plug will be provided and shall be tethered to the fitter for easy recovery and installation.

See next page



SternbergLighting

ESTABLISHED 1923 / EMPLOYEE OWNED

800-621-3376  
555 Lawrence Ave., Roselle, IL 60172  
info@sternberglighting.com  
www.sternberglighting.com

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# A850SRLED OLD TOWN SERIES

LED

## Twist-Lock Fitter (Optional)

The TL (Twist-Lock) fitter shall have an aluminum die-cast twist-lock mechanism. The tool-less 1/4 turn action allows for easy globe removal and replacement. A die-cast ring assembly is mechanically attached to the globe and is removable if the globe is broken or replaced.

## LEDs

The luminaire shall use high output, high brightness LED's. They shall be mounted in arrays, on printed circuit boards designed to maximize heat transfer to the heat sink surface. The arrays shall be roof mounted to minimize up-light. The LED's and printed circuit boards shall be environmentally friendly and 100% recyclable, they shall also be protected from moisture and corrosion by a conformal coating of 1 to 3 mils. They shall not contain lead, mercury or any other hazardous substances and shall be RoHS compliant. The LED life rating data shall be determined in accordance with IESNA LM-80. They shall operate in a -40°C (-40°F) to +50°C (122°F) ambient air temperature range. The High Performance white LED's will have a life expectancy of approximately 100,000 hours with not less than 70% of original brightness (lumen maintenance), rated at 25°C. The High Brightness, High Output LED's shall be 4500K (3500K or 2700K option) color temperature with a typical of 70 CRI. The luminaire shall have a minimum \_\_\_\_\_ (see table) delivered initial lumen rating when operated at steady state with an average ambient temperature of 25°C (77°F).

## Optics

The luminaire shall be provided with individual, refractor type optics applied to each LED. The luminaire shall provide Type \_\_\_\_ (2, 3, 3R, 4 or 5) light distribution per the IESNA classifications. Testing shall be done in accordance with IESNA LM-79.

## Electronic Drivers

The LED driver shall be U.L. Recognized. It shall be securely mounted inside the fitter, for optimized performance and longevity. The LED driver shall be supplied with a quick-disconnect electrical connector on the power supply, providing easy power connections and fixture installation. It shall have overload as well as short circuit protection, and have a DC voltage output, constant current design, 50/60HZ. The LED driver shall be supplied with line-ground, line-neutral and neutral-ground electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines.

**For Sources Over 50W:** The driver shall have a minimum efficiency of 90%. The driver shall be rated at full load with THD<20% and a power factor of greater than 0.90.

The driver shall contain over-heat protection which reduces output to less than half rating if the case temperature reaches 85°C.

## Photocontrols

**Button Style:** On single post top fixtures the photocontrol shall be mounted in the fitter and pre-wired to ballast. On multiple head fixture assembly's photocontrol shall be mounted in the pole shaft on an access plate and are not pre-wired as ballast housing assemblies and fitters are packaged separately for ease of wiring to source. The electronic button type photocontrol is instant on with a 5-10 second turn off, and shall turn on at 1.5 footcandles with a turn-off at 2-3 footcandles. Photocontrol is 120-277 volt.

**Twist-Lock Style:** The photocontrol shall be mounted in the utility fitter and pre-wired to ballast. The twist lock type photocontrol is instant on with a 3-6 second turn off, and shall turn on at 1.5 footcandles with a turn-off at 2-3 footcandles. Photocontrol is 120-277 volt.

Photocontrols are warranted for 2 years and electronic photocontrols are warranted for 6 years.

## Warranty

Seven-year limited warranty. See product and finish warranty guide for details.

## Finish

Refer to website for details.

## Performance

Light Source	T2 Spec Lumens	T3 Spec Lumens	T3R Spec Lumens	T4 Spec Lumens	T5 Spec Lumens	Watts
6ARC27T-MDL05	9970	10160	10015	10030	10160	144
6ARC35T-MDL05	11375	11595	11425	11445	11595	144
6ARC45T-MDL05	12785	13025	12840	12860	13025	144
6ARC27T-MDL03	7210	7345	7315	7290	7380	96
6ARC35T-MDL03	8225	8380	8345	8320	8420	96
6ARC45T-MDL03	9245	9415	9375	9345	9460	96
4ARC27T-MDL03	4800	4940	4850	4865	4935	66
4ARC35T-MDL03	5480	5635	5535	5550	5630	66
4ARC45T-MDL03	6155	6330	6215	6235	6330	66
3ARC27T-MDL03	3635	3730	3670	3665	3740	53
3ARC35T-MDL03	4150	4260	4190	4180	4270	53
3ARC45T-MDL03	4660	4785	4710	4700	4795	53
2ARC27T-MDL03	2375	2495	2415	2440	2560	33
2ARC35T-MDL03	2715	2850	2755	2780	2920	33
2ARC45T-MDL03	3050	3200	3095	3125	3285	33



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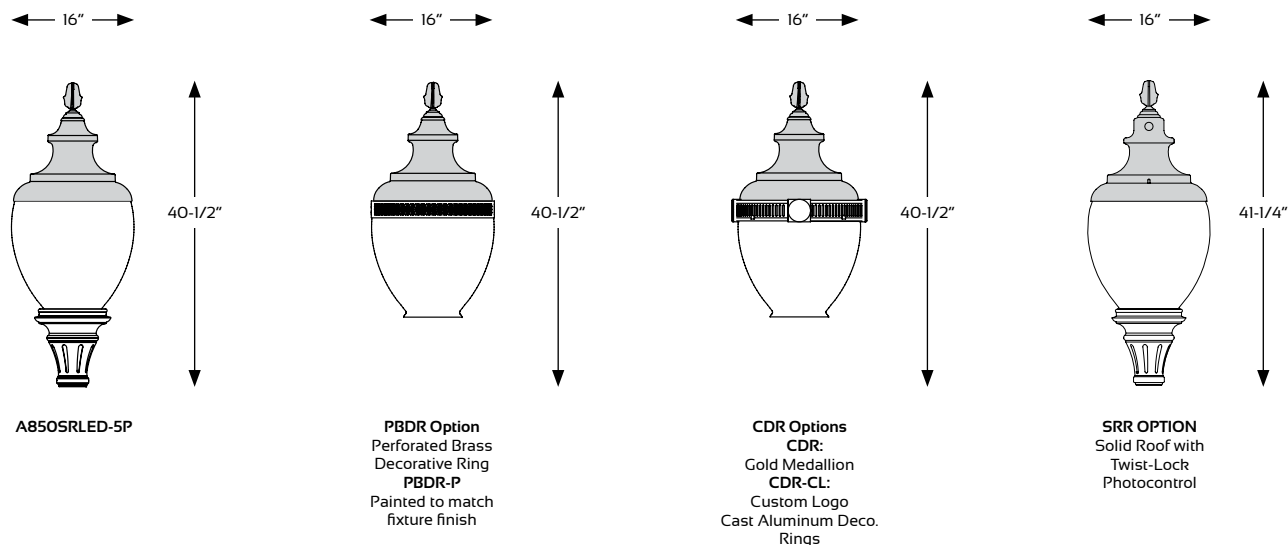
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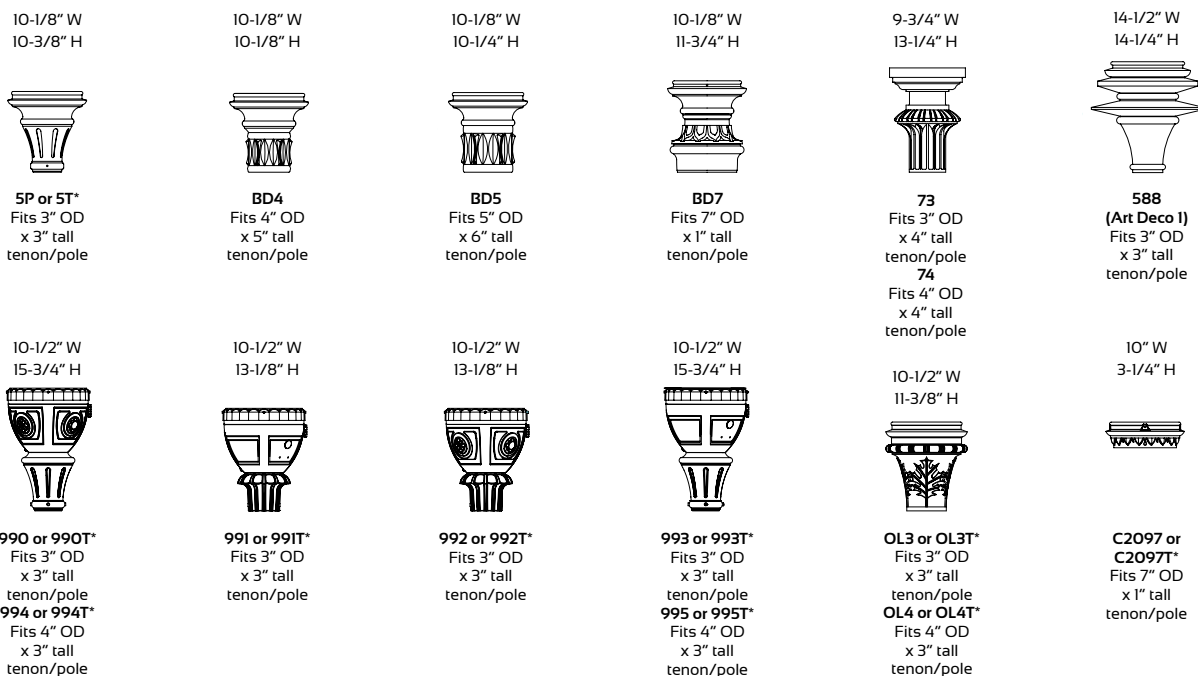
# A850SRLED OLD TOWN SERIES

LED

## Fixture Examples



## Fitters



\*Twist Lock Acorn (Fitter TL)



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## DESCRIPTION

The Impact Elite family of wall luminaires is the ideal complement to site design. Incorporating modular LightSquares 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.

Catalog #		Type
Project		
Comments		Date
Prepared by		

## 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 10 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, 5000K 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. LightSquares feature an IP66 enclosure rating and maintain greater than 90% 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**

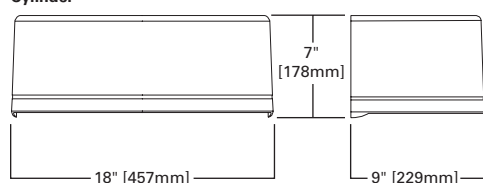
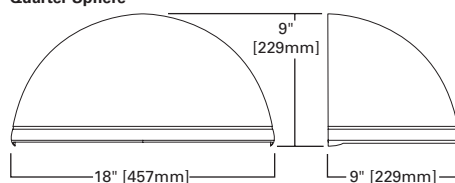
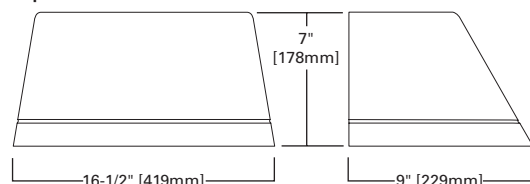
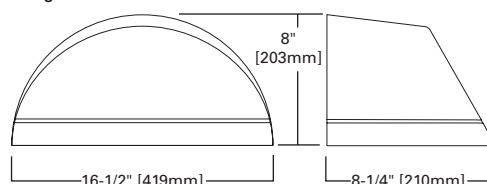
Cast components finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison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

### WALL MOUNT LUMINAIRE

**CERTIFICATION DATA**

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

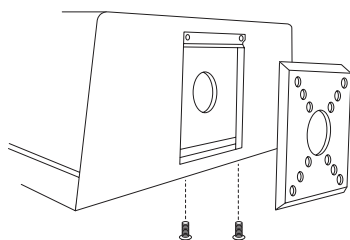
**ENERGY DATA**

**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



## POWER AND LUMENS

1 LightSquare (AF)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120-277V	20.3	25.5	33.4	43.9	55.1	66.2	20.3	25.5	33.4	43.9	55.1	66.2
Current (A)	120V	0.17	0.22	0.29	0.38	0.48	0.56	0.17	0.22	0.29	0.38	0.48	0.56
	277V	0.09	0.10	0.13	0.17	0.21	0.25	0.09	0.10	0.13	0.17	0.21	0.25
Power (Watts)		23.3	28.7	36.6	49.5	60.7	70.1	23.3	28.7	36.6	49.5	60.7	70.1
Current (A)	347V	0.07	0.08	0.11	0.15	0.18	0.21	0.07	0.08	0.11	0.15	0.18	0.21
	480V	0.05	0.06	0.08	0.11	0.13	0.16	0.05	0.06	0.08	0.11	0.13	0.16
Optics													
T2	Lumens	2,336	2,934	3,827	4,791	5,663	6,444	2,498	3,136	4,091	5,122	6,054	6,889
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
T3	Lumens	2,385	2,994	3,906	4,889	5,779	6,577	2,504	3,144	4,101	5,133	6,068	6,905
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
T4FT	Lumens	2,360	2,963	3,866	4,839	5,720	6,509	2,530	3,177	4,145	5,188	6,133	6,979
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
T4W	Lumens	2,386	2,996	3,908	4,892	5,783	6,581	2,500	3,139	4,095	5,126	6,059	6,895
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
SL2	Lumens	2,257	2,834	3,697	4,628	5,470	6,225	2,413	3,030	3,953	4,948	5,849	6,656
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
SL3	Lumens	2,220	2,787	3,636	4,552	5,380	6,122	2,365	2,970	3,874	4,849	5,732	6,523
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
SL4	Lumens	2,110	2,649	3,456	4,326	5,113	5,818	2,234	2,805	3,660	4,581	5,415	6,162
	BUG Rating	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
SLL/SLR	Lumens	1,990	2,498	3,259	4,080	4,823	5,488	2,154	2,705	3,529	4,418	5,222	5,942
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
RW	Lumens	2,380	2,988	3,898	4,880	5,768	6,564	2,465	3,095	4,037	5,054	5,974	6,798
	BUG Rating	B2-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0	B3-U1-G1	B3-U1-G1	B3-U1-G1	B3-U1-G1	B3-U1-G1	B3-U1-G1

## LUMEN MAINTENANCE

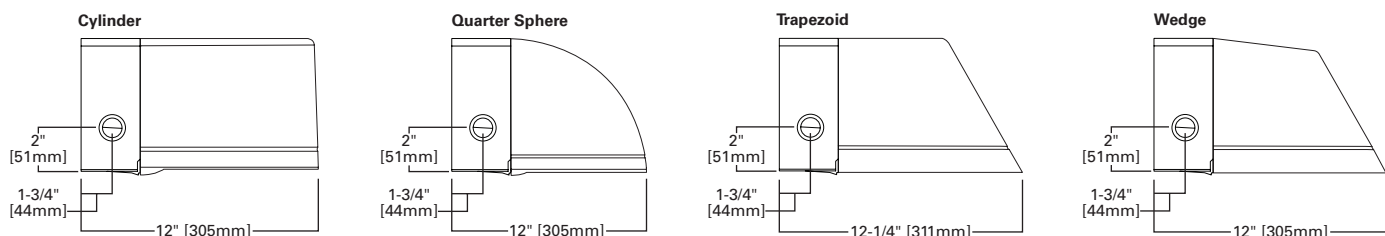
Current	Ambient Temperature	25000 Hours*	50000 Hours*	60000 Hours*	100000 Hours*	Theoretical L70 (Hours)*
Up to 1.2A	Up to 40°C	>95%	>91%	>90%	>83%	20,4000

\*Data calculated based on TM-21 calculator.

## LUMEN MULTIPLIER

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

## THRUWAY BACK BOX



## ORDERING INFORMATION

Sample Number: ISC-AF-1200-LED-E1-T3-BZ

Product Family <sup>1</sup>	Light Engine	Drive Current	Lamp Type	Voltage	Distribution	Color
<b>ISC</b> =Impact Elite LED Small Cylinder <b>ISS</b> =Impact Elite LED Small Quarter Sphere <b>IST</b> =Impact Elite LED Small Trapezoid <b>ISW</b> =Impact Elite LED Small Wedge	<b>AF</b> =(1) LightSquare	<b>350</b> =Drive Current Factory Set to 350mA <b>450</b> =Drive Current Factory Set to 450mA <b>600</b> =Drive Current Factory Set to 600mA <b>800</b> =Drive Current Factory Set to 800mA <b>1000</b> =Drive Current Factory Set to 1000mA <b>1200</b> =Drive Current Factory Set to 1200mA <sup>2</sup>	<b>LED</b> =Solid State Light Emitting Diodes	<b>E1</b> =Electronic (120-277V) <b>347</b> =347V <sup>2</sup> <b>480</b> =480V <sup>2,3</sup>	<b>T2</b> =Type II <b>T3</b> =Type III <b>T4FT</b> =Type IV Forward Throw <b>T4W</b> =Type IV Wide <b>SL2</b> =Type II w/Spill Control <b>SL3</b> =Type III w/Spill Control <b>SL4</b> =Type IV w/Spill Control <b>SLL</b> =90° Spill Light Eliminator Left <b>SLR</b> =90° Spill Light Eliminator Right <b>RW</b> =Rectangular Wide Type I	<b>AP</b> =Grey <b>BZ</b> =Bronze <b>BK</b> =Black <b>DP</b> =Dark Platinum <b>GM</b> =Graphite Metallic <b>WH</b> =White
<b>Options</b> (Add as Suffix)				<b>Accessories</b> (Order Separately) <sup>17</sup>		
<b>7030</b> =70 CRI / 3000K CCT <sup>4</sup> <b>7050</b> =70 CRI / 5000K CCT <sup>4</sup> <b>7060</b> =70 CRI / 5700K CCT <sup>4</sup> <b>8030</b> =80 CRI / 3000K CCT <sup>4</sup> <b>PER7</b> =NEMA 7-PIN Twistlock Photocontrol Receptacle <sup>2,5,6</sup> <b>P</b> =Button Type Photocontrol (Available in 120, 208, 240 or 277V. Must Specify Voltage) <sup>2,6</sup> <b>HA</b> =50°C High Ambient <sup>7</sup> <b>AHD145</b> =After Hours Dim, 5 Hours, 50% <sup>8</sup> <b>AHD245</b> =After Hours Dim, 6 Hours, 50% <sup>8</sup> <b>AHD255</b> =After Hours Dim, 7 Hours, 50% <sup>8</sup> <b>AHD355</b> =After Hours Dim, 8 Hours, 50% <sup>8</sup> <b>MS/DIM-LXX</b> =Motion Sensor for Dimming Operation <sup>9,10,11</sup> <b>LWR-LW</b> =LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height <sup>6,11,12</sup> <b>LWR-LN</b> =LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>6,11,12</sup> <b>BBB</b> =Battery Pack with Back Box (Specify 120V or 277V) <sup>13</sup> <b>CWB</b> =Cold Weather Battery Pack with Back Box (Specify 120V or 277V) <sup>14</sup> <b>LCF</b> =LightSquare Trim Plate Matches Housing Finish <b>HSS</b> =Factory Installed House Side Shield <sup>15</sup> <b>ULG</b> =Uplight Glow <sup>5,6</sup> <b>TR</b> =Tamper Resistant Hardware <b>X</b> =Driver Surge Protection (6kV) Only <sup>16</sup>				<b>MA1253</b> =10kV Circuit Module Replacement <b>MA1254-XX</b> =Thruway Back Box - Impact Elite Trapezoid <b>MA1255-XX</b> =Thruway Back Box - Impact Elite Cylinder <b>MA1256-XX</b> =Thruway Back Box - Impact Elite Quarter Sphere <b>MA1257-XX</b> =Thruway Back Box - Impact Elite Wedge <b>FSIR-100</b> =Wireless Configuration Tool for Occupancy Sensor		

## NOTES:

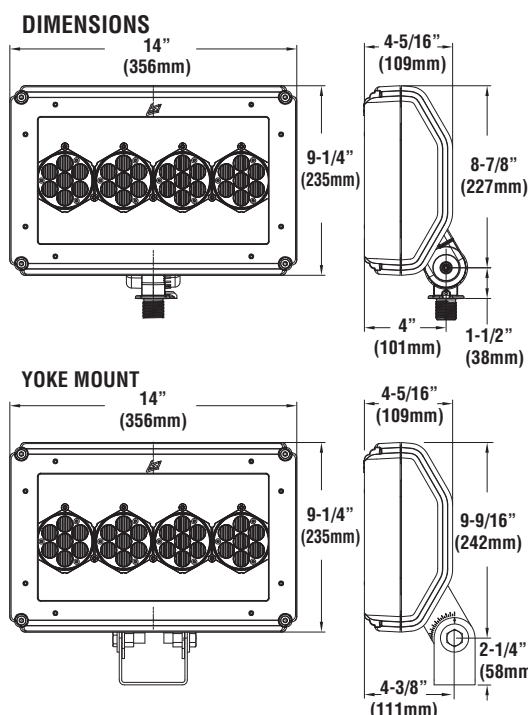
- Standard 4000K CCT and greater than 70 CRI.
- Not available with ULG option.
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
- Extenended lead times apply.
- Not available with ISS or ISW.
- Not available with LWR-XX or MS/DIM-LXX.
- Suitable for 50°C provided no options other than motion sensor are included and driver output set to 1.A or less.
- Requires the use of P photocontrol or the PER7 photocontrol receptacle with photocontrol accessory. Not available with 350mA drive current. See After Hours Dim supplemental guide for additional information.
- Specify lens in place of XX. Round to next highest option based on mounting height. Available options are 08, 20 and 40W.
- The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
- Includes integral photocell.
- LumaWatt Pro wireless sensors are factory installed and requiring network components in appropriate quantities. See [www.eaton.com/lighting](http://www.eaton.com/lighting) for LumaWatt Pro application information.
- LED standard integral battery pack is rated for minimum operating temperature 32°F (0°C). Operates downlight for 90-minutes.
- LED cold weather integral battery pack is rated for minimum operating temperature -4°F (-20°C). Operates downlight for 90-minutes.
- Only for use with SL2, SL3 and SL4 distributions. The LightSquare trim plate is painted black when the HSS option is selected.
- Removes additional surge module.
- Specify color in place of XX.

## LED FLOOD LIGHT - MEDIUM (XFLM)



### DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit [www.lightingfacts.com](http://www.lightingfacts.com) for specific catalog strings.



EPA 1.1

### US & Int'l. patents pending

**HOUSING** – Architecturally styled, one-piece, die-cast aluminum, 360 alloy, low copper housing with .156" nominal wall thickness. One-piece vulcanized silicone gasket seals the door frame to the housing and is concealed when fixture is closed.

**DOOR FRAME** – One-piece, die-cast aluminum, 360 alloy, low copper, .156" nominal wall thickness door frame secures to housing via four, stainless steel recessed captive torx T-30 screws. 3/16" thick clear tempered glass lens is sealed to door frame by a one-piece silicone gasket and ten black zinc plated clips.

**EXPECTED LIFE** – Minimum 60,000 to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

**LEDS** – Features an array of select, high brightness, high efficiency LED chips; CW - 5000K color temperature, 70 CRI or NW - 4000K color temperature, 80 CRI or WW - 3500K color temperature, 80 CRI.

**OPTICS / DISTRIBUTION** – Choice of 6 high performance distributions; HF, VF, MF, NF, WF, or SP.

**PRESSURE STABILIZING VENT** – Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.

**DRIVER** – Driver components are fully encased in potting for moisture resistance. Complies with IEC and FCC standards. Optional 0-10V dimming driver available, with controls by others.

**OPERATING TEMPERATURE** - -40°C to 40°C (-40°F to +104°F)

**ELECTRICAL** – Universal voltage power supply, 120-277 VAC (50/60 HZ input) and 347-480 VAC. Drivers feature two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Scenario 1, Location Category C, 10KV

**MOUNTING** – Standard mount is a heavy duty die cast knuckle assembly with 3/4-14 NPS male threaded arm that provides 185° range of motion. Knuckle locking plate teeth and arm allow for tilt / aiming in 7.5° increments. Aiming angle markings in 15° increments allow reliable error free aiming. Standard knuckle mount tested to withstand up to 3G vibration load rating per ANSI C136.31. Optional YM- Yoke Mount is also available. Mounting accessories include Stanchion Mount, Post-Top Adapter, Junction Box, & Wall Mount for recessed or surface mount applications.

**SHIPPING WEIGHT** – 18 pounds.

**FINISH** - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling.

**WARRANTY** - LSI LED fixtures carry a limited 5-year warranty.

**PHOTOMETRICS** - Please visit our web site at [www.lsi-industries.com](http://www.lsi-industries.com) for detailed photometric data.

**LISTING** - UL listed to UL 1598, UL 8750 and other U.S. and International safety standards. Suitable for wet locations. For a list of the specific products in this series that are DLC listed, please consult the LED Lighting section of our website or the Design Lights website at [www.designlights.org](http://www.designlights.org).

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



### XFLM Photometric Technical Summary and Comparison

Catalog Number	NEMA Type	Field Angle H° V°	Beam Angle H° V°	Max CD	Lumens	Watts	LPW
XFLM-HF-LED-49-HO-CW-UE	5H X 3V	77 36	54 16	19,801	6,584	64	103
XFLM-MF-LED-49-HO-CW-UE	4H X 4V	60 60	33 32	16,753	6,573	64	103
XFLM-WF-LED-49-HO-CW-UE	5H X 5V	73 72	44 44	9,912	5,744	64	90
XFLM-VF-LED-49-HO-CW-UE	3H X 5V	38 77	18 53	18,627	6,548	64	102
XFLM-NF-LED-49-HO-CW-UE	4H X 4V	48 47	24 23	24,681	6,298	64	98
XFLM-SP-LED-49-HO-CW-UE	3H X 3V	36 34	17 15	51,976	6,986	64	109
XFLM-HF-LED-28-HO-CW-UE	5H X 3V	77 35	54 16	11,456	3,717	36	103
XFLM-MF-LED-28-HO-CW-UE	4H X 4V	60 60	33 32	9,650	3,732	36	104
XFLM-WF-LED-28-HO-CW-UE	5H X 5V	74 74	45 44	5,572	3,407	36	95
XFLM-VF-LED-28-HO-CW-UE	3H X 5V	36 76	17 53	11,181	3,678	36	102
XFLM-NF-LED-28-HO-CW-UE	4H X 3V	48 46	24 23	15,904	4,149	36	115
XFLM-SP-LED-28-HO-CW-UE	3H X 3V	35 34	17 16	34,100	4,501	36	125

LED Chips are frequently updated therefore values may increase.



Project Name \_\_\_\_\_ Fixture Type \_\_\_\_\_  
Catalog # \_\_\_\_\_

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# LED FLOOD LIGHT - MEDIUM (XFLM)

## LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XFLM SP LED 28 HO CW UE BRZ**

Luminaire Prefix	Distribution	Light Source	# of LEDs	Drive Current	Color Temp.	Line Voltage	Luminaire Finish	Options
XFLM - Medium LED Flood	HF - Horizontal Flood MF - Medium Flood VF - Vertical Flood SP - Spot NF - Narrow Flood WF - Wide Flood	LED	28 49	HO - High Output	CW - Cool White (5000K) NW - Neutral White (4000K) WW - Warm White (3000K)	UE - Universal Voltage (120-277v)  347-480 Univ Voltage (347-480v)	BRZ - Bronze BLK - Black PLP - Platinum Plus WHT - White SVG - Satin Verde Green GPT - Graphite MSV - Metallic Silver	PC120 - Photocell 120v PCHV - Photocell 208-277v PC347 - Photocell 347v <sup>1</sup> YM - Yoke Mount DIM - 0-10v Dimming

### FOOTNOTES:

1 - PCI option is not available in 480V.

## BRACKET ORDERING INFORMATION

Bracket Designation	Bracket Type	Bracket Configuration	Length	Bracket Finish	Options	Est. Weight (lbs.)
BKA - Bracket Aluminum	XFLM	SMC - Stanchion Mount	23"	BRZ - Bronze BLK - Black PLP - Platinum Plus BUF - Buff WHT - White GPT - Graphite SVG - Satin Verde Green MSV - Metallic Silver	None	7
		J4R WM - Wall Mount	4"			2
		J4R WM SCE - Wall Mount Side Conduit Entry				

TYPICAL ORDER EXAMPLE: **BKA XFLM SMC 23 BLK**


## ACCESSORY ORDERING INFORMATION

(Accessories are field installed)


Description	Order Number	Description	Order Number
JB - Junction Box	122534CLR	PS - Polycarbonate Shield	122541
BD - Barn Doors	122539CLR	PT - Post Top Adaptor	122542CLR
GS - Glare Shield	122540CLR	TA - Thread Adaptor 1/2" (No Finish)	122543


**ARCHITECTURAL JUNCTION BOX (JB)** - Cast aluminum body and extruded matching cover. One-piece EPDM cover gasket. Internal ground screw provided. 3/4" NPSM fixture mount with sealing locknut. Two 1/2" NPSM for conduit entry. For above grade installation only. Available in standard finishes.



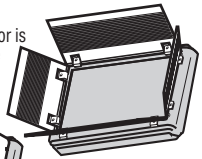
**POST TOP ADAPTOR (PT)** - One-piece cast aluminum - mounts on pole with 2" pipe tenon (2-3/8" OD x 3-1/2" minimum length) or 2-1/2" pipe tenon (2-7/8" OD x 3-1/2" minimum length). Fixture threads into adaptor and attaches to pole with allen set screws. Post Top Adaptor allows mounting of one or two fixtures and 360° horizontal adjustment. Available in standard finishes.



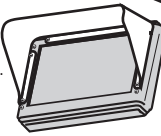
**1/2" THREADED ADAPTOR (TA)** - Machined aluminum pipe reducer adapts 3/4" pipe thread (T-stem) to 1/2" pipe thread provided by others.



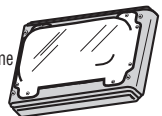
**BARN DOORS (BD)** - Extruded aluminum doors with anti-reflection baffles. Each door is attached with two aluminum clamps with set screws to maintain position. Doors are individually removable. Assembly mounts to die-cast door frame holes. Caution: Not recommended for ground-mounted fixtures in vandal-prone areas. Available in standard finishes.



**GLARE SHIELD (GS)** - Formed 16 ga. steel. Mounts to die-cast door frame holes and may be used with polycarbonate shield accessory. Available in standard finishes.

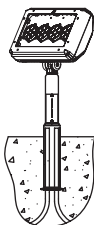


**POLYCARBONATE SHIELD (PS)** 1/8" clear convex, UV stabilized, thermoformed polycarbonate. Mounts to die-cast door frame holes. May be used with glare shield accessory. Caution: Use only when vandalism is anticipated. Useful life is limited by UV discoloration from sunlight.

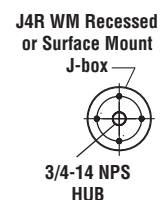
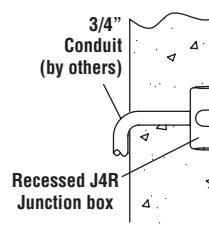


## MOUNTING BRACKETS

**STANCHION MOUNT (SMC)** - 3" OD x .250" x 22.65" cast aluminum with 3/4" NPSM fixture mount, and a standard 2 3/8" tenon. Wiring and internal ground lug accessible through hand hole. Available in standard finishes.



**WALL MOUNT J-BOX (J4 WM or J4R WM SCE)** - Accessory includes J4R J-Box, 507504 3/4-14 NPS canopy, canopy gasket, & 4 cap screws. J4R WM SCE version for surface mount conduit applications includes 2ea 1/2" conduit entries & includes conduit plugs.



Project Name \_\_\_\_\_ Fixture Type \_\_\_\_\_  
Catalog # \_\_\_\_\_

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# OFL Size 1 LED Flood Luminaire



Catalog  
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

## Specifications

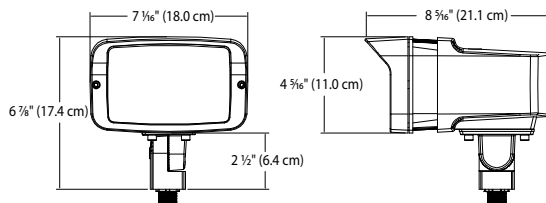
**EPA:** 0.6 ft<sup>2</sup>  
(.06 m<sup>2</sup>)

**Depth:** 8.3"  
(21.1 cm)

**Width:** 7"  
(18 cm)

**Height:** 6.9"  
(17.4 cm)

**Weight:** 5 lbs  
(2.27 kg)



## Introduction

The OFL Size 1 Floodlight delivers up to 4,400 lumens, with a robust design and several mounting options making it perfect for light commercial applications. It's the ideal long-life replacement for 70-150W metal halide floods, with typical energy savings up to 84% and expected service life of over 50,000 hours.

## Ordering Information

**EXAMPLE:** OFL1 LED P1 40K MVOLT THK DDBXD

OFL1 LED					
Series	Performance Package	Color Temperature	Voltage	Mounting	Finish (required)
OFL1 LED	P1	40K 4000K	MVOLT <sup>1</sup>	THK Knuckle with 1/2" NPS threaded pipe	DDBXD Dark bronze
	P2	50K 5000K		YK Yoke	

## Accessories

Ordered and shipped separately.

OFL1WG	Wire Guard Accessory
OFL1VG	Vandal Guard Accessory
DSXF1/2TS DDBXD U	Slipfitter for 1-1/4" to 2-3/8" OD tenons; mates with 1/2" threaded knuckle (specify finish) <sup>2</sup>
FTS CG6 DDBXD U	Slipfitter for 2-3/8" to 2-7/8" OD tenons; mates with yoke mount (specify finish)

## NOTES

1. MVOLT driver operates on any line voltage from 120-277V (50/60Hz).
2. It will only work on the knuckle mount.

## FEATURES & SPECIFICATIONS

### INTENDED USE

The traditional and robust design of the OFL1 LED floodlight with energy efficient LEDs, is suitable for replacing up to 150W Metal Halide. It is ideal for landscape, signage, and accent lighting in heavy commercial and residential applications.

### CONSTRUCTION

Die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.6 ft<sup>2</sup>) for optimized wind loading.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering.

### ELECTRICAL

Light engine(s) consist of chip-on-board (COB) LEDs directly coupled to the housing to maximize heat dissipation and promote long life (50,000 hrs).

### INSTALLATION

Integral adjustable knuckle with 1/2-14NPS threaded pipe, yoke, or slipfitter attachment, facilitates quick and easy installation to a variety of mounting accessories.

### LISTINGS

UL certified to U.S. and Canadian standards. Luminaire is IP65 rated. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



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OFL1 LED  
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## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	Field Angle		Beam Angle		40K		50K	
			"H	"V	"H	"V	Lumens	LPW	Lumens	LPW
P1	21W	WFL	106	106	71	72	2,295	109	2,333	111
P2	45W	WFL	106	106	71	72	4,451	99	4,466	99

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C	1.06
10°C	1.03
20°C	1.01
25°C	1.00
30°C	0.99
40°C	0.97

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **OFL Flood Size 1** platform based on 9000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000
Lumen Maintenance Factor	1	0.88	0.78

### Electrical Load

Power Package	System Watts	Current (A)				
		120V	208V	240V	277V	347V
P1	21W	0.21	0.12	0.11	0.1	-
P2	45W	0.41	0.24	0.2	0.19	-

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [OFL Series Flood Size 1 homepage](#).

## Mounting, Options and Accessories



THK-Knuckle with 1/2" NPS threaded pipe



YK-Yoke mount



Slipfitter attachment  
DSXF1/2 TS  
H= 2-1/2" (6.3 cm)  
ID= 2-3/8" (6.0 cm)  
OD= 3-1/2" (8.8 cm)



Wire Guard  
OFL1WG



Vandal Guard  
(Polycarbonate lens)  
OFL1VG

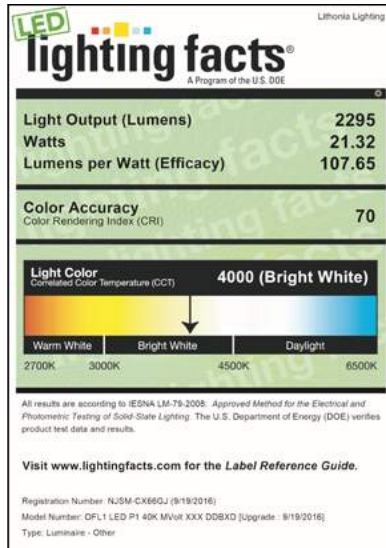


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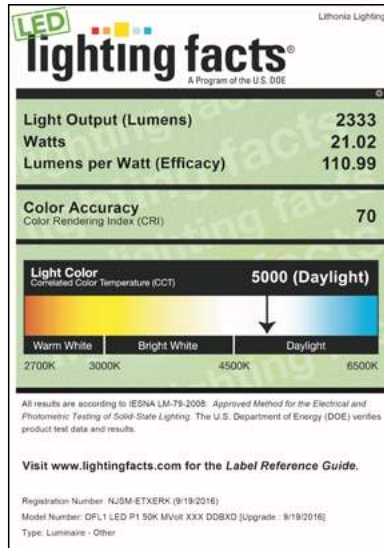
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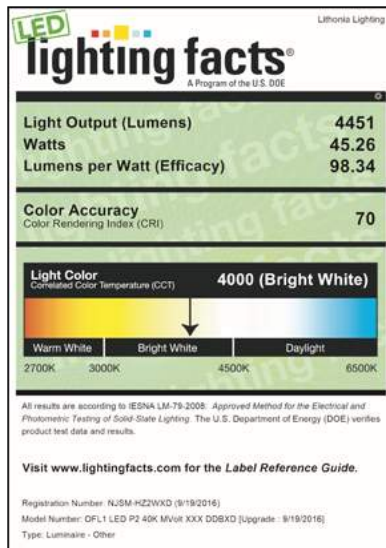
OFL1 LED P1 40K MVOLT XXX DDBDX



OFL1 LED P1 50K MVOLT XXX DDBDX



OFL1 LED P2 40K MVOLT XXX DDBDX



OFL1 LED P2 50K MVOLT XXX DDBDX

