



690 Chesterfield Pkwy W • Chesterfield MO 63017-0760  
Phone: 636-537-4000 • Fax 636-537-4798 • www.chesterfield.mo.us

## Planning Commission Staff Report

- Project Type:** Amended Lighting Plan with Light Fixture Request
- Meeting Date:** May 14, 2018
- From:** Cassie Harashe, AICP, Project Planner 
- Location:** North of Olive Street Rd., between Premium Way and Brasher St.
- Description:** **Chesterfield Blue Valley, Lot 5B-2 (TownePlace Suites), Amended Lighting Plan with Light Fixture Request:** A request for a decorative light fixture for a 2.171 acre tract of land zoned "PC" Planned Commercial District located on the north side of Olive Street Rd., between Premium Way and Brasher Street.

### PROPOSAL SUMMARY

This project is a request for approval of an amended lighting plan with a decorative light fixture for use along the pedestrian pathway within the TownePlace Suites site. This request is before the Planning Commission as the proposal does not contain fully shielded fixtures.



Figure 1: Aerial Photo

## **HISTORY OF SUBJECT SITE**

In 2006, the first planned district was approved for the site and in the years since, the site-specific governing ordinance has been amended several times to include additional land into the planned district and to consolidate several ordinances. The most recent ordinance amendment occurred in 2014, when the City of Chesterfield approved Ordinance 2805 to modify development criteria of the development. Ordinance 2805 is the current ordinance of record. In February 2017, the Site Development Section Plan for the subject property was approved by the Planning Commission. The site is currently under construction. The applicant is wanting to amend the lighting plan to change several lighting fixtures. One of these fixtures requires a design exemption.

## **STAFF ANALYSIS**

The City's Unified Development Code requires that fully shielded light fixtures with full cut off optics be utilized within commercial developments. The Unified Development Code defines fully shielded as an "outdoor fixture shielded or constructed so that no light rays are emitted by the installed fixture at angles above the horizontal plane passing through the lowest point of the fixture from which the light is emitted as certified by a photometric test report." Due to the conical mirror element in the middle of the fixture, shown in Figure 2, light is reflected upward beyond the plane where the light is emitted from.

However, section [31-04-03.L.2](#) of the UDC includes a provision which allows the Planning Commission to approve decorative lighting fixtures when it can be proven that there will be no off-site glare light trespass, and the proposed fixtures will improve the appearance of the site.

On January 9, 2017 the Planning Commission approved the Site Development Section Plan for TownePlace Suites within the Chesterfield Blue Valley Development. As a part of that application, the Planning Commission approved a decorative bollard that complied with the UDC requirement that all light fixtures be fully shielded with cut-off optics, as seen in Figure 2. This request is for utilization of 12 bollards, shown in Figures 2 and 3, in lieu of the approved fixture along pedestrian pathways located in front of the building. These decorative light fixtures would be mounted at a height of 3.5 feet and would not result in light trespass given the interior location of the proposed fixture, as shown in Figures 5 and 6. Based on this, the proposed fixture meets the first portion of the Unified Development Code requirement as there will be no off-site glare light trespass from these fixtures; therefore the location of the fixtures is appropriate for the pedestrian pathways.

The applicant has stated in their attached narrative that the reason for the change in fixture is that the original bollard approved is not a Marriot Hotel standard and the developer wishes to install a fixture from the Marriot Hotel catalog. The previously approved bollard does have a much more decorative and ornate appearance than the currently proposed bollard; further the original fixture was 30" versus the 42.7" for the proposed fixture.

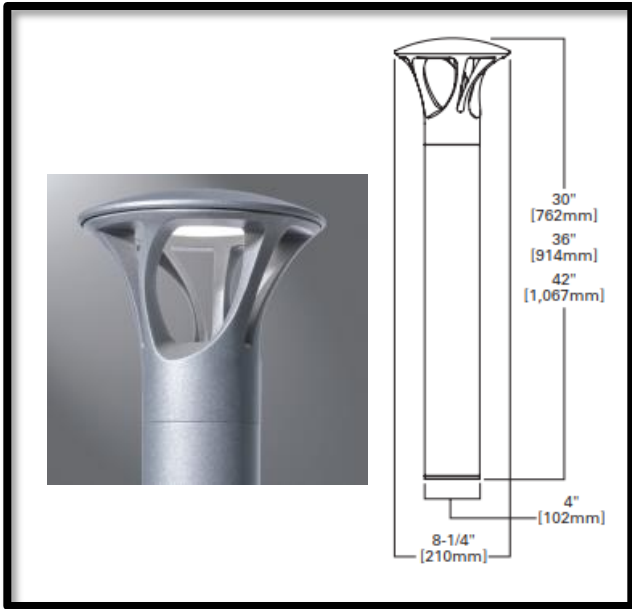


Figure 2: Previously Approved Bollard



Figure 3: Reference Photo of Requested Bollard

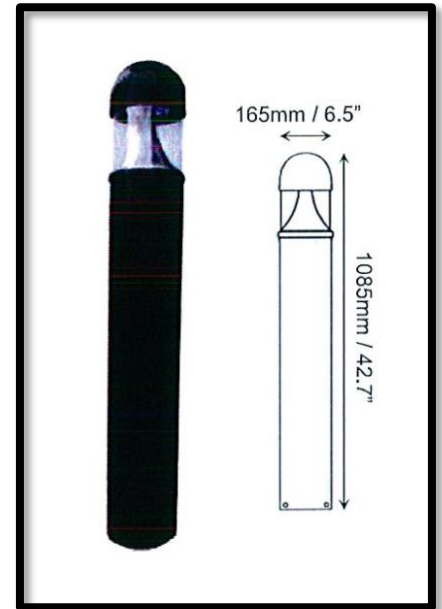


Figure 4: Proposed bollard

**Other Fixtures**

The applicant is proposing several different light fixtures for the development, including decorative and utilitarian wall packs, parking lot, canopy, and wall washing lights. All of these fixtures comply with the UDC requirement to be fully shielded and have cut-off optics.

**Amended Lighting Plan**

The Amended Lighting Plan is in compliance with the Unified Development Code regulations with the exception of the bollard fixture proposed.

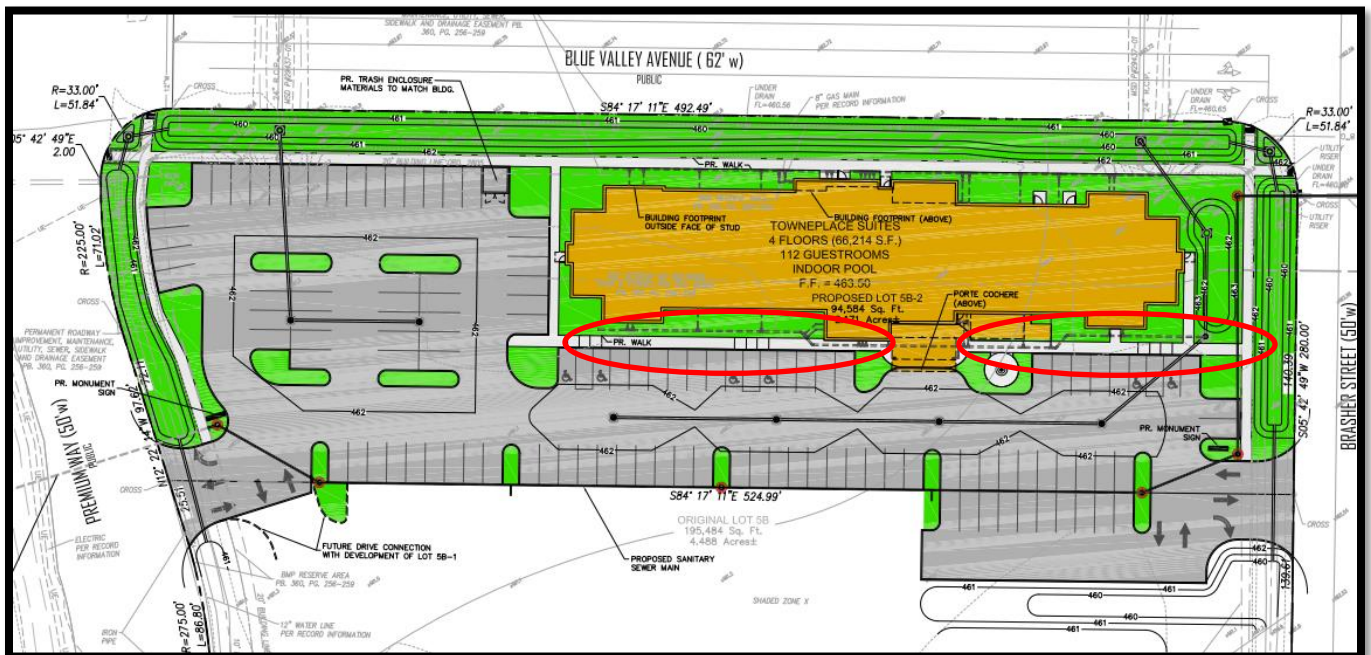
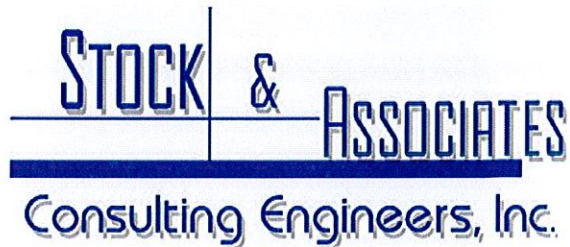


Figure 5: Location of Proposed Decorative Fixtures





**PHOTOMETRIC PLAN NARRATIVE  
FOR TOWNEPLACE SUITES**

Date: May 3, 2018

(Stock Project No. 216-5750.1)

TownePlace Suites Hotel, is a 112 guestroom suite style hotel that is currently under construction at 748 Premium Way in Chesterfield Blue Valley and is expected to be completed November 2018. The Site Development Section Plan, Landscape Plan, and Photometric Plan were approved by the City of Chesterfield Planning Commission on January 9, 2017. When the project was going through the site development section plan review and approval process in the fall of 2016, the design/engineering team was not made aware of the Marriott Hotels design standards and preferred fixtures for site lighting. Construction began on the hotel in November of 2017, it was realized a few weeks into construction that the light fixtures shown on the approval Photometric Plan were not consistent with Marriott's fixtures. New cut sheets were sent to the City and direction on the next steps was requested. It was determined that the preferred bollard would warrant Planning Commission approval as it's shielding differed from the previously proposed and approved. The bollard currently being proposed is a fixture that is used amongst all Marriott hotel sites, and as a company they would like there to be uniformity in design across all hotel campuses. We respectfully request the Planning Commission's consideration in approving the revised Photometric Plan.

**257 Chesterfield Business Parkway, St. Louis, MO 63005**  
**636.530.9100 – Main | 636.530.9130 – Fax**  
**[www.stockassoc.com](http://www.stockassoc.com) | [general@stockassoc.com](mailto:general@stockassoc.com)**



TPS - CHESTERFIELD, MO  
 TYPE: Z50  
 L1-BLDB025-C 25 2125 A 3 82 1 BR

BOLLARDS

DESCRIPTION

LED Bollard is an economical and energy efficient choice for lighting walkways, plazas and other pedestrian areas in commercial and residential applications as well as any other location requiring a low mounting height light source with fully cutoff illumination.



ORDERING INFORMATION							
Model	Watts	Lumen	Optic	Color Temp.	CRI	Optional	Finish color
L1-BLDB025-C	25	2125	A = 360	1 = 3000K 2 = 4000K 3 = 5000K	82	1 = Dimmable	BR

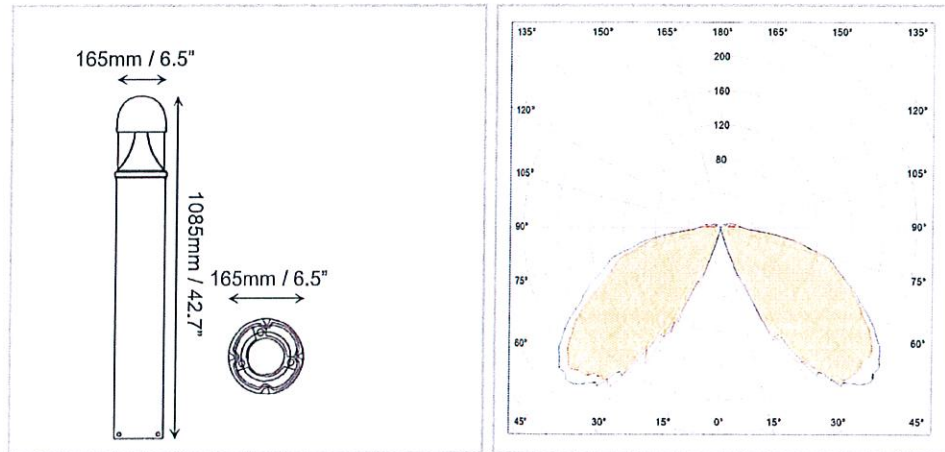
Ordering Example:  
 L1-BLDB025-C-25-A-1-BR

Project name:



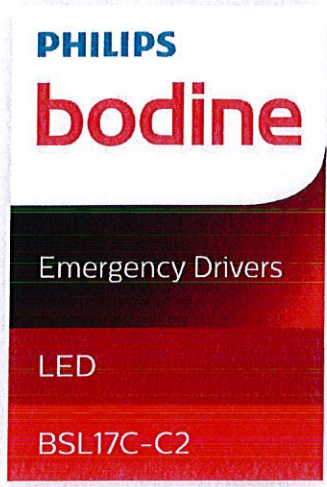


- Material: Die-cast Aluminum housing. Corrosion-resistant polyester powder coat finished. The optic chamber surrounded and sealed with silicon gasket ensuring good performance.
- Led type: Cree chips.
- Electrical: 120~ 277Vac, 50/60Hz Driver included.
- Power factor:  $\geq 95\%$
- Led efficiency: 85 lm/W
- Color temperature: 4000K, 5000K, 6000K
- Operation temperature:  $-20^{\circ}\text{C}$  to  $50^{\circ}\text{C}$
- Color Rendering Index (CRI):  $\geq 80$
- THD%:  $< 20\%$
- IP Rating: IP65



Project name:





Project: Towneplace Suites  
 Type: Z28  
 Model.No: Qty:  
 Date:  
 Notes:



**Emergency LED Driver**  
 Listed for field installation  
 Class 2 output  
 7.5 Watts output power

Product order number: BSL17CC2T1U (metal case with conduit on both ends)  
 See back page for additional model configurations and order numbers

**Specifications**

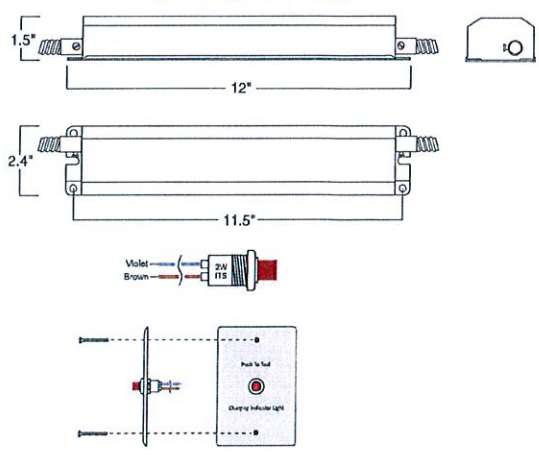
- UL Listed**  
Listed to UL924 and CSA 22.2 No. 141  
For Field or Factory Installation  
(Indoor and Damp)
- Illumination Time**  
90 Minutes
- Full Warranty**  
5 Years (NOT pro-rata)
- Universal Input Voltage**  
120-277 VAC, 60 Hz
- AC Input Power**  
3.0 (Maximum)
- Output Voltage**  
15.0 - 50.0 VDC
- Output Power**  
7.5 W (Maximum),
- Test Switch/Charging Indicator Light**  
2 W - ITS (2-Wire illuminated test switch)
- Battery**  
High-Temperature, Maintenance-Free  
Nickel-Cadmium Battery  
7- to 10-Year Life Expectancy
- Recharge Time**  
24 Hours
- Temperature Rating**  
Ambient : 0°C to +50°C (32°F to 122°F)  
Case: Tc (max): 65°C
- Dimensions**  
12.0" x 2.4" x 1.5"  
(304 mm x 60 mm x 38 mm)  
Mounting Center 11.5" (292 mm)
- Weight**  
4.3 lbs. (1.95 kg)

**Benefits:**

- Listed for field or factory installation - UL 924 and CSA C22.2 No. 141  
Emergency Lighting Compliant
- Smart Charger Technology for low energy consumption
- Meets CEC Title 20 (California Energy Commission) efficiency standards
- Class 2 output - UL 1310 Certified, CSA 22.2 No 223-M91 compliant
- Controlled power for predictable discharge
- Emergency mode initial lumen output of up to 975 lumens
- 15-50 VDC for wide range of LED loads
- Universal input (120 through 277 VAC, 50/60 Hz)
- RoHS Compliant

**Dimensions**

12.0" x 2.4" x 1.5" (mounting center - 11.5")



A Test/Monitor Plate with an illuminated test switch/charging indicator light is provided.





# BSL17C-C2

## Emergency LED Driver, Class 2 Output, 7.5 Watts Output Power

### APPLICATION

The BSL17C-C2 is UL Listed for factory or field installation and allows the same LED luminaire to be used for normal and emergency operation. The BSL17C-C2 emergency LED driver works in conjunction with an AC LED driver that has an output current not to exceed 3.0 A, to convert new or existing LED fixtures into emergency lighting. The emergency driver consists of a high-temperature nickel-cadmium battery, charger and electronic circuitry in one compact case. The BSL17C-C2 can be used with an LED lighting load of up to 7.5 Watts. If used in an emergency-only fixture, no AC driver is necessary. The BSL17C-C2 is suitable for indoor and damp locations and for sealed & gasketed fixtures, including fixtures rated for wet locations. Neither the BSL17C-C2 nor the BSL17C-C2 is suitable for air handling heated air outlets and wet or hazardous locations. For more information about specific LED and AC driver compatibility, please call the factory.

### OPERATION

When AC power fails, the BSL17C-C2 immediately switches to the emergency mode, operating the LEDs at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the emergency driver automatically returns to the charging mode.

### INSTALLATION

The BSL17C-C2 does not affect normal fixture operation and may be used with either a switched or unswitched fixture. If a switched fixture is used, an unswitched hot lead must be connected to the emergency driver. The emergency driver must be fed from the same branch circuit as the AC driver. The BSL17C-C2 may be installed on top of the fixture and the BSL17C-C2 may be installed on top of or inside the fixture. Installation is not recommended with fixtures where the ambient temperature may fall below 0° C.

### CODE COMPLIANCE

For detailed information regarding standards and code compliance for emergency lighting see product page or the Codes and Standards section on the web site.

### EMERGENCY ILLUMINATION

The BSL17C-C2 operates an LED load of up to 7.5 Watts.

### SPECIFICATION

Emergency lighting shall be provided by using an LED fixture equipped with a Philips Bodine BSL17C-C2 emergency driver. This emergency driver shall consist of a high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in

one 12" x 2 3/8" x 1 1/2" metal case. The BSL17C-C2 comes with an illuminated test switch (ITS) to monitor charger and battery and installation hardware shall be provided. The emergency driver shall be capable of delivering up to 7.5 Watts to an LED load (15-50VDC) for a minimum of 90 minutes. The BSL17C-C2 shall have a 15.0 Watt-hour battery capacity and shall comply with emergency standards set forth by the current NEC. This device complies with Part 15 of the FCC Rules and meets CEC Title 20 (California Energy Commission) efficiency standards. The emergency driver shall be UL Listed for field or factory installation.

### INSTALLATION OPTIONS AND ORDERING CODES

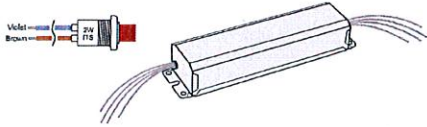
The BSL17C-C2 model can be ordered in several mounting configurations and test switch/LED kits. Please see the ordering codes below to determine which configuration best meet your requirements.

### WARRANTY

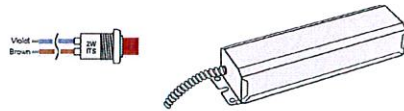
Model BSL17C-C2 is warranted for five (5) full years from date of manufacture. Please see detailed warranty information on our web site.

#### Optional Configurations (with order numbers)

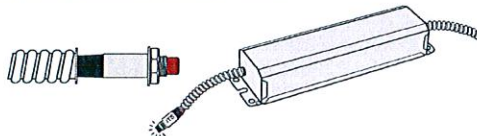
BSL17-C2 (Order Number BSL17C2U)  
Includes Loose 2W-ITS Parts Kit



BSL17C-C2 Type 1 (Order Number BSL17CC25F)  
Includes Loose 2W-ITS Parts Kit

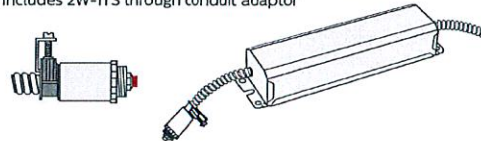


BSL17C-C2 Type 1 Option 6 (Order Number BSL17CC2T1O6U4W)  
Includes 4W-ITS exiting through conduit



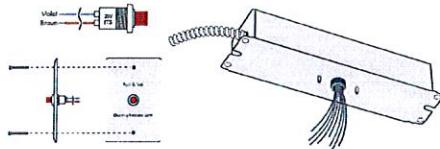
4 W-ITS exits through conduit adaptor. All other wires through the other conduit.

BSL17C-C2 Type 1 Option 7 (Order Number BSL17CC2T1O7)  
Includes 2W-ITS through conduit adaptor

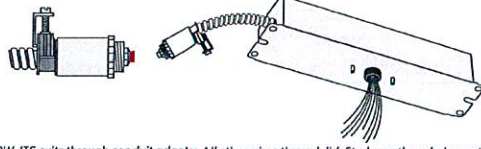


ITS exits unit through conduit adaptor. All other wires through the other conduit.

BSL17C-C2 Type 2 (Order Number BSL17CC2T2U)  
Includes 2W-ITS on Wall Plate



BSL17C-C2 Type 2 Option 7 (Order Number BSL17CC2T2O7)  
Includes 2W-ITS through conduit adaptor



2W-ITS exits through conduit adaptor. All other wires through lid. Studs are threaded so unit can be mounted on a J-box plate.

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Document order number: L2300261 17.1128



Philips Emergency Lighting  
236 Mt. Pleasant Rd.  
Collierville, TN 38017  
Tech Support: 888.263.4638  
Sales: 800.223.5728

philips.com/bodine

**NHM-612 (1250LM, 120/277V)**  
**NHM-620 (2000LM, 120/277V)**  
**6" LED Marquise New Construction Housing**

**PRODUCT DESCRIPTION**

Six inch thermally protected universal line voltage new construction housing.

**CONSTRUCTION**

**Plaster Frame**

High quality 0.032 steel die cut one piece frame. Bar hanger brackets on all four sides provide two possible position for installation.

**Housing**

0.040 steel housing with riveted cap adjusts to maximum ceiling thickness of 1-3/4" (45mm). Spring brackets accept torsion wing trim springs; slots on socket plate surface accept standard coil springs.

**Minimum Clearance**

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

**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. Frame may also be supported with aircraft structural cable for drop panel ceilings or any other application requiring direct support from a structural 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).

**Dimming**

- 850 & 1250 Lumen Triac dimming standard
- Comfort Dim requires ELV dimmer
- 2000 Lumen 0-10V dimming standard
- Consult factory for optional 850 & 1250LM 0-10V and 2000LM triac dimming

**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**

External thermal device is located on the junction box.

**Trim**

Compatible with NRM-61 Series.

**EMERGENCY**

90-minute battery back up must be ordered separately and installed apart from the housing in an accessible location.

**DRIVER**

- CREE LMD125 for 120V 850/1250 Lumen. ERP ELM03W-0440-34 for 277V 850/1250Lumen
- CREE LMD300 for 120/277 2000LM

**Wiring**

Standard flex whip carries wire lead from junction box into housing. Wire leads extend from housing and thermal device to the luminary disconnect.

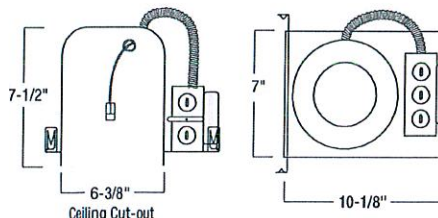
**6" LED Marquise New Construction Housing**

Catalog No.	Lumen	Driver	Voltage	Emergency
<b>NHM-6</b>	12=1250lm	(Blank)=Standard	LE1=120V (1250Lm), 0-10V (2000Lm)	EM=Emergency Pack
	20=2000lm	C=Comfort Dim*	LE2=277V, 0-10V LE3= 120V Triac Dimming LE4= 120V, 0-10V Dimming	with Test Switch

\* Comfort Dim requires ELV dimming

**NORALIGHTING.**

Type	Z28
Project	Towneplace Suites
Catalog No.	NHM-620-LE1-EM
Lamp/Wattage	



Cut-out: 6-3/8"  
 ID: 6"  
 Housing Length: 10-1/8"  
 Housing Width: 7"  
 Housing Height: 7-1/2"



**Dimming**

- 850 & 1250 Lumen Triac dimming standard
- Comfort Dim requires ELV dimmer
- 2000 Lumen 0-10V dimming standard
- Consult factory for optional 850 & 1250LM 0-10V and 2000LM triac dimming

**Bodine Emergency Lighting Equipment: BSL17-C2/BSL17C-C2 (850/1250lm)**

- Up to 7.0W max emergency illumination with LEDs.
- Illumination Time: 90min
- Dual Input Voltage: 120/277 VAC, 60Hz
- Output Voltage: 15.0-50.0 VDC
- AC Input Current: 45 mA
- Output Current: 470mA max
- Dimension: 12" x 2.4" x 1.5"

**Bodine Emergency Lighting Equipment: BSL17C-C2P (2000/3000lm)**

- Up to 7.0W max emergency illumination with LEDs.
- Illumination Time: 90min
- Dual Input Voltage: 120/277 VAC, 60Hz
- Output Voltage: 15.0-50.0 VDC
- AC Input Current: 280 mA
- Output Current: 270mA max
- Dimension: 12" x 2.4" x 1.5"

**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  
 Title 24  
 Energy Star

NHM-612LE1EM: 6" Marquise LED Marquise New Construction 1250 Lumen, 120V with Emergency Housing

**NORALIGHTING.**

6505 Gayhart St., Commerce, CA 90040  
 www.noralighting.com • Specifications subject to change without notice. © 2011  
 Phone: 800.686.6672 • FAX: 800.500.9955 • e-mail: nora@noralighting.com

**NHM-612 (1250LM, 120/277V)**  
**NHM-620 (2000LM, 120/277V)**  
**6" LED Marquise New Construction Housing**

Type \_\_\_\_\_  
 Project \_\_\_\_\_  
 Catalog No. \_\_\_\_\_  
 Lamp/Wattage \_\_\_\_\_

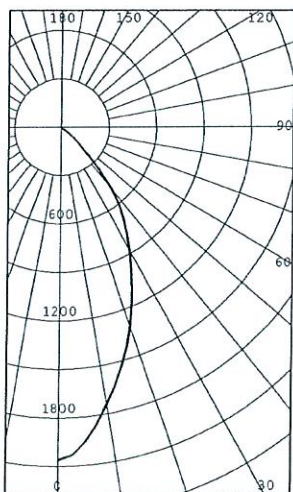
**NHM-620LE1 / NRM-611L2030DW**

Voltage: 120.0 VAC	Power: 25.21 W	Frequency: 60Hz	Test Temp: 24.8°C	Current: 0.2126 A	PF: 0.988	SC: 0.8
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COEFFICIENTS OF UTILIZATION CONAL CAVITY METHOD  
 EFFECTIVE FLOOR CAVITY REFLECTANCE = 0.20

CC	90				80				70				50			30			10			0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
WALL																						
RCR																						
0	1.22	1.22	1.22	1.22	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.16	1.13	1.11	1.09	1.14	1.11	1.09	1.07	1.12	1.10	1.07	1.05	1.05	1.04	1.02	1.02	1.00	0.99	0.98	0.97	0.96	0.95
2	1.11	1.07	1.03	0.99	1.09	1.05	1.01	0.98	1.07	1.03	1.00	0.97	1.00	0.97	0.95	0.97	0.95	0.93	0.94	0.93	0.91	0.89
3	1.06	1.00	0.95	0.91	1.04	0.98	0.94	0.90	1.02	0.97	0.93	0.90	0.95	0.91	0.88	0.92	0.90	0.87	0.90	0.88	0.86	0.84
4	1.01	0.94	0.88	0.85	1.00	0.93	0.88	0.84	0.98	0.92	0.87	0.84	0.90	0.86	0.83	0.88	0.84	0.82	0.86	0.83	0.81	0.79
5	0.97	0.88	0.82	0.78	0.95	0.87	0.82	0.78	0.93	0.86	0.81	0.78	0.85	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.76	0.74
6	0.92	0.83	0.77	0.73	0.91	0.82	0.77	0.73	0.89	0.82	0.76	0.73	0.80	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.70
7	0.87	0.78	0.72	0.68	0.86	0.77	0.72	0.68	0.85	0.77	0.71	0.67	0.75	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.65
8	0.83	0.73	0.67	0.64	0.82	0.73	0.67	0.63	0.81	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.62	0.69	0.65	0.62	0.61
9	0.78	0.69	0.63	0.59	0.77	0.68	0.63	0.59	0.76	0.68	0.62	0.59	0.67	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.57
10	0.74	0.64	0.58	0.55	0.73	0.64	0.58	0.55	0.72	0.64	0.58	0.55	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.53

## INTENSITY (CANDLEPOWER) SUMMARY



ANGLE	MEAN CP
0	2059
5	1957
10	1740
15	1529
20	1305
25	1078
30	877
35	700
40	485
45	244
50	105
55	32
60	2
65	1
70	0
75	0
80	0
85	0
90	0

## ZONAL LUMENS & PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	1100	62.30
0-40	1530	86.66
0-60	1764	99.93
0-90	1766	100.00
40-90	236	13.34
60-90	1	0.07
90-180	0	0.00
0-180	1766	100.00

## LUMINACE SUMMARY CD./SQ.M.

ANGLE	MEAN CD/SQ M
45	20637
55	3325
65	142
75	7
85	0

# Marquise Series NRM-6

## 6" LED Recessed Downlight

Source: LED 11 Watts @ 850 Source Lumens = 663 Delivered Lumens  
 LED 16 Watts @ 1250 Source Lumens = 1025 Delivered Lumens  
**LED 25 Watts @ 2000 Source Lumen = 1882 Delivered Lumens**

### 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. Available in New construction and Remodel style. Outboard mounted driver allows for cooler operation and extends life.

### FEATURES

- 5 Year Limited Warranty
- Cree platform
- 90+ CRI True White (Registered)
- Dimmable (850 & 1250 Triac; 2000 0-10V)
- 50,000 hour life
- Title 24 Compliant
- LED 11W @ 850 Source Lumens = 663 Delivered Lumens
- LED 16W @ 1250 Source Lumens = 1025 Delivered Lumens
- LED 25W @ 2000 Source Lumens = 1882 Delivered Lumens
- Available in 2700K, 3000K, 3500K, 4000K and Comfort Dim, 91CRI

### Trim

Aluminum spun reflector with deep set diffused lens for excellent visual comfort while providing high lumen output. Available in 2700K, 3000K, 3500K, 4000K or Comfort Dim color temp. to accommodate different appearances.

### Construction

Scientifically and specifiable "Unitized Thermal Management" (UTM) provides exceptional cool operation exceeding all industry standards.

### Mounting

Trim includes torsion springs to mount trim securely to housing.

### ELECTRICAL

Voltage: 120VAC

Current: 91mA

Power Consumption: 850lm=11W / 250lm=16W / 2000lm=25W

Light Source: Cree True White Ceramic LED package Platform

CRI: 91 CRI

LED Driver: CREE LMD125 for 120V / ERP for 277V (non-dimmable)

Operating Temperature: 0°C to 75°C ambient temperature

Life Expectancy: 50,000 hours

### Baseline Emergency Lighting Equipment: BSL17-C2/BSL17C-C2 (850/1250lm)

- Up to 7.0W max emergency illumination with LEDs.
- Illumination Time: 90min
- Dual Input Voltage: 120/277 VAC, 60Hz
- Output Voltage: 15.0-50.0 VDC
- AC Input Current: 45 mA
- Output Current: 470mA max
- Dimension: 12" x 2.4" x 1.5"

### Baseline Emergency Lighting Equipment: BSL17C-C2P (2000/3000lm)

- Up to 7.0W max emergency illumination with LEDs.
- Illumination Time: 90min
- Dual Input Voltage: 120/277 VAC, 60Hz
- Output Voltage: 15.0-50.0 VDC
- AC Input Current: 280 mA
- Output Current: 270mA max
- Dimension: 12" x 2.4" x 1.5"

### Compatible Housing

Catalog No.	Description	Driver	Voltage	Emergency
<input type="checkbox"/> NHM-612	6" 1250lm New Const	<input type="checkbox"/> (Blank)=Standard	<input type="checkbox"/> LE1=120V	<input type="checkbox"/> EM=Emergency
<input type="checkbox"/> NHRM-612	6" 1250lm Remodel	<input type="checkbox"/> C=Comfort Dim	<input type="checkbox"/> LE2=277V	
<input type="checkbox"/> NHM-620	6" 2000lm New Const			
<input type="checkbox"/> NHMICD-620	6" Marquise 2000 Lumen IC New Construction Double Wall Housing			
<input type="checkbox"/> NHRM-620	6" 2000lm Remodel			
<input type="checkbox"/> NHMIC-685	6" 850lm IC New Const			
<input type="checkbox"/> NHRMIC-685	6" 850lm IC Remodel			
<input type="checkbox"/> NHMICD-612	6" 1250lm IC Double Wall New			
<input type="checkbox"/> NFBIC-6L12AT	6" Marquise 1250 Lumen IC Dedicated Fire Box			
<input type="checkbox"/> NFBIC-6L85AT	6" Marquise 850 Lumen IC Dedicated Fire Box			

# NORALIGHTING.

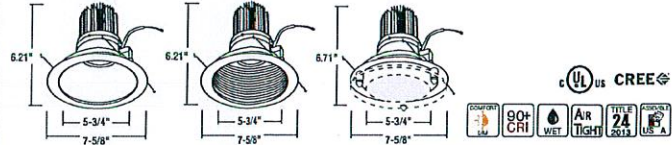
Type Z28

Project Towneplace Suites

Catalog No. NRM-618-L-20-30-EM-DW

Lamp/Wattage 25W

### DIMENSIONS



### Optics

- Cree True White® Technology
- Flat frosted shatterproof acrylic composite lens
- 90+ CRI
- 97 LPW LEDs producing high efficiency fixture performance
- LM-80 data
- Dimmable

### Dimming

Marquise Series Dimming: 850 and 1250 lumen units require triac style dimmers. 2000 Lumen require 0-10V dimming protocol. See Dimmer Compatibility Chart under Resource section in the Nora NSpec Lighting Website.

### 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 3 different lumen levels:

- 850 and 1250 Lumens for lower ceiling heights in commercial and residential applications. (Sapphire and Marquise Series)
- 2000 Lumens for light commercial and residential high veiling applications. 2000 Lumen available on 6" Marquise.

### Labels and Listings

Title 24 Compliant  
 cULus Listed for Wet Location  
 WSEC ASTM E283 for Air-Tight  
 5 Year Limited Warranty

### 6" LED with Reflector Trim

Catalog No.	Source	Lumen	Color Temp
<input type="checkbox"/> NRM-611	<b>L=LED</b>	<input type="checkbox"/> 85=850	<input type="checkbox"/> 27=2700K
<input type="checkbox"/> NRM-612		<input type="checkbox"/> 12=1250	<input type="checkbox"/> 30=3000K
<input type="checkbox"/> NRM-618		<input type="checkbox"/> 20=2000	<input type="checkbox"/> 35=3500K
			<input type="checkbox"/> 40=4000K
			<input type="checkbox"/> CD=Comfort Dim

\*EM: BSL17-C2/BSL17C-C2 Emergency LED Drive Class 2 Output  
 Compatible with CREE LMH Module.

### Deco Glass Options

- NTG-6B/120: 6" Tempered Clear Glass with Frosted Center and 3-1/8" Open Center
- NTG-6B/80: 6" Tempered Blue Glass with 3-1/8" Open Center
- NTG-6CF: 6" Tempered Clear Glass with Frosted Center
- NTG-6FC: 6" Tempered Frosted Glass with Clear Center
- NTG-6HC: 6" Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

### Finish

611/618 Refelctor & Flange	612 Baffle & Flange Finishes
<input type="checkbox"/> BW = Specular Black Reflector, White Flange	<input type="checkbox"/> BW = Black Baffle / White Flange
<input type="checkbox"/> BZ = Bronze Reflector, Bronze Flange	<input type="checkbox"/> BZ = Bronze Baffle and Flange
<input type="checkbox"/> CO = Copper Reflector, Copper Flange	<input type="checkbox"/> CO = Copper Baffle and Flange
<input type="checkbox"/> DW = Diffused Clear Reflector, White Flange	<input type="checkbox"/> NN = Natural Metal Baffle and Flange
<input type="checkbox"/> HZW = Haze Reflector, White Flange	<input type="checkbox"/> WW = White Baffle and Flange
<input type="checkbox"/> NN = Natural Metal Reflector & Flange	
<input type="checkbox"/> WW = White Reflector, White Flange	

Create a complete trim / housing catalog numbers: Example: NRM-611L8527BZBZ / NHM-685LE1EM

# NORALIGHTING.

6505 Gayhart St., Commerce, CA 90040  
 www.noralighting.com • Specifications subject to change without notice. © 2011  
 Phone: 800.686.6672 • FAX: 800.500.9955 • e-mail: nora@noralighting.com

**Marquise Series**

**6" Dedicated LED with Reflector Trim**

Source: LED 10.6 Watts @ 850 Source Lumens = 663 Delivered Lumens  
 LED 15.75 Watts @ 1250 Source Lumens = 1025 Delivered Lumens  
 LED 24.32 Watts @ 2000 Source Lumen = 1744 Delivered Lumens

Type \_\_\_\_\_  
 Project \_\_\_\_\_  
 Catalog No. \_\_\_\_\_  
 Lamp/Wattage \_\_\_\_\_

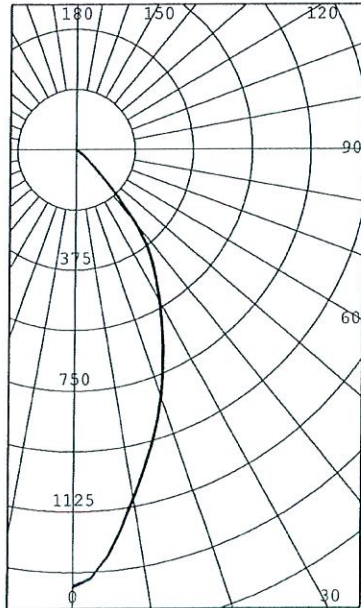
**NHM-612LE1 / NRM-611L1230DW**

Voltage: 120.1 VAC	Power: 15.52 W	Frequency: 60Hz	Test Temp: 24.8°C	Current: 0.1317 A	PF: 0.983	SC: 0.7
--------------------	----------------	-----------------	-------------------	-------------------	-----------	---------

COEFFICIENTS OF UTILIZATION CONAL CAVITY METHOD  
 EFFECTIVE FLOOR CAVITY REFLECTANCE = 0.20

CC WALL	90				80				70				50			30			10			0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR 0	1.22	1.22	1.22	1.22	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.16	1.13	1.11	1.09	1.14	1.12	1.09	1.07	1.12	1.10	1.07	1.05	1.05	1.04	1.02	1.02	1.00	0.99	0.98	0.97	0.96	0.95
2	1.11	1.07	1.03	0.99	1.09	1.05	1.02	0.98	1.07	1.03	1.00	0.97	1.00	0.97	0.95	0.97	0.95	0.93	0.95	0.93	0.91	0.90
3	1.06	1.00	0.95	0.91	1.04	0.99	0.94	0.91	1.03	0.97	0.93	0.90	0.95	0.92	0.89	0.93	0.90	0.87	0.90	0.88	0.86	0.85
4	1.02	0.94	0.89	0.85	1.00	0.93	0.88	0.85	0.98	0.92	0.88	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.86	0.84	0.81	0.80
5	0.97	0.89	0.83	0.79	0.95	0.88	0.82	0.79	0.94	0.87	0.82	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.76	0.75
6	0.93	0.84	0.78	0.74	0.91	0.83	0.78	0.74	0.90	0.82	0.77	0.73	0.81	0.76	0.73	0.79	0.75	0.72	0.78	0.75	0.72	0.71
7	0.87	0.79	0.73	0.69	0.86	0.78	0.72	0.69	0.85	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.66
8	0.84	0.74	0.68	0.64	0.82	0.73	0.68	0.64	0.81	0.72	0.67	0.64	0.72	0.67	0.64	0.71	0.66	0.63	0.70	0.66	0.63	0.62
9	0.79	0.70	0.64	0.59	0.78	0.69	0.63	0.59	0.77	0.68	0.63	0.59	0.67	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.57
10	0.75	0.65	0.59	0.56	0.74	0.65	0.59	0.55	0.73	0.64	0.59	0.55	0.64	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.54

**INTENSITY (CANDLEPOWER) SUMMARY**



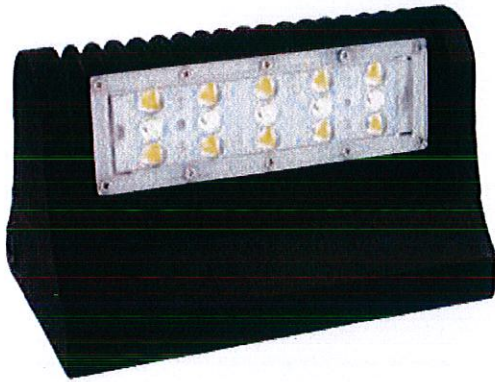
ANGLE	MEAN CP
0	1356
5	1267
10	1097
15	951
20	809
25	667
30	539
35	428
40	292
45	134
50	54
55	18
60	1
65	0
70	0
75	0
80	0
85	0
90	0

**ZONAL LUMENS & PERCENTAGES**

ZONE	LUMENS	% LUMINAIRE
0-30	686	63.49
0-40	949	87.81
0-60	1081	99.99
0-90	1081	100.00
40-90	132	12.19
60-90	0	0.01
90-180	0	0.00
0-180	1080	100.00

**LUMINACE SUMMARY CD./SQ.M.**

ANGLE	MEAN CD/SQ M
45	11335
55	1924
65	2
75	0
85	0

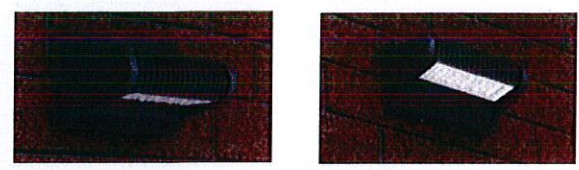
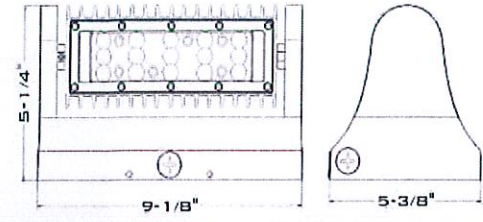


**LW360-25W-50K**  
**LW360-25W-30K**

TPS - CHESTERFIELD, MO  
TYPE: Z29  
LW360 25W 50K

**DIMENSIONS:**

9-1/8"(W) x 5-1/4"(H) x 5-3/8"(D)



**LW360 LED WALL PACK**

Ideal for general site lighting, alleys, loading docks, doorway, pathway and parking areas.

**ELECTRICAL SPECIFICATIONS:**

- Input Wattage: 25W
- Input Voltage: 120-277VAC 50/60Hz
- Other wattages: 60W, 80W
- Power factor: >0.9
- Efficacy: 125LM/W~130LM/W

**HOUSING SPECIFICATIONS:**

- Aluminum with (Black) powder coat finish
- Operating temperature: -4°F ~ 104°F
- Lifespan: 50000 Hrs.
- IP rating: IP65, Wet Locations
- LED panel swivels 180° each direction

**CERTIFICATIONS: UL**



MODEL	WATTS	VOLTAGE	LUMENS	COLOR TEMP
LW360-25W-50K	25W	120~277V AC	3250LM	5000K
LW360-25W-30K	25W	120~277V AC	3125LM	3000K

**LIGHTING SPECIFICATIONS:**

- LED type/brand: CREE MHB-B
- Total lumens: 3125LM and 3250LM
- Color temperature: 3000K and 5000K
- Color rendering index: >70
- Beam angle: 60°

**WARRANTY: 5 years**

Rev. 2017-06-12



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

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

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

## LW360-25W-50K

## LW360-25W-30K

### LW360 LED WALL PACK

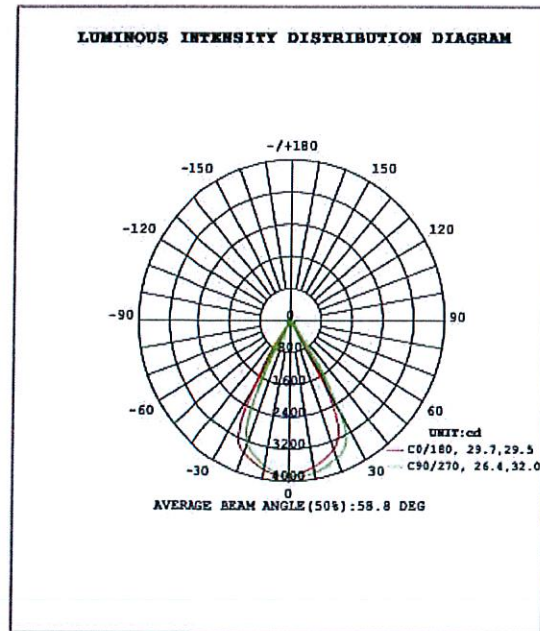
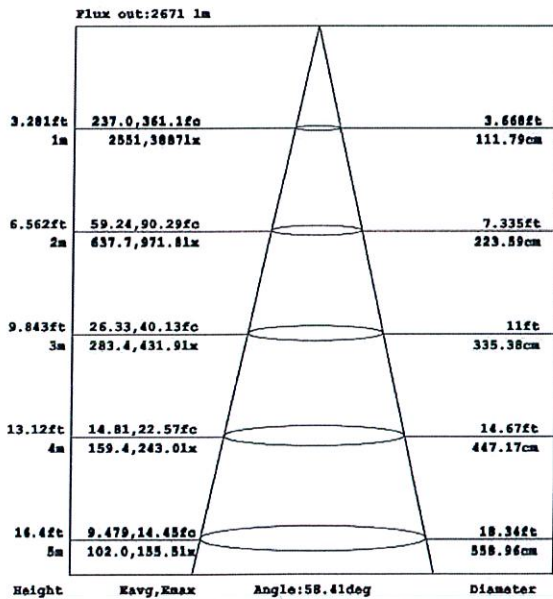
MODEL	WATTS	VOLTAGE	LUMENS	COLOR TEMP
LW360-25W-50K	25W	120~277V AC	3250LM	5000K
LW360-25W-30K	25W	120~277V AC	3125LM	3000K

### CERTIFICATIONS: UL



### PHOTOMETRICS:

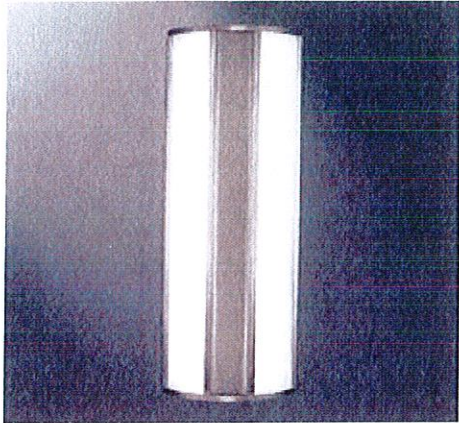
DATA OF LAMP		PHOTOMETRIC DATA Eff: 129.66 lm/W			
MODEL		I <sub>max</sub> (cd)	3900	S/MH (C0/180)	0.85
NOMINAL POWER (W)	25	LOR (%)	100.0	S/MH (C90/270)	0.76
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	3280.3	η UP, DN (C0-180)	0.1, 55.6
NOMINAL FLUX (lm)	3280.33	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1, 44.1
LAMPS INSIDE	1	η up (%)	0.3	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	120.0	η down (%)	99.7	CIBSE SHR MAX	0.60



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.



Product Specifications



**Material:** Painted solid aluminum with a 1/8" matte white extruded acrylic panel. Open bottom and enclosed top. Luminous top and bottom for LED .

**Wattage:** 29W max.

**Electrical:** 120 ~ 277Vac, 50/60Hz Driver.

**Power factor:** ≥90%

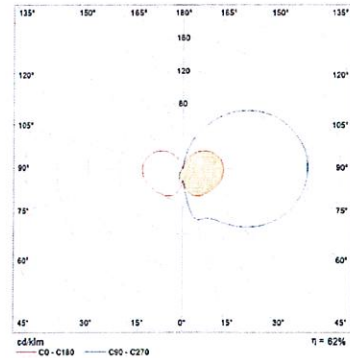
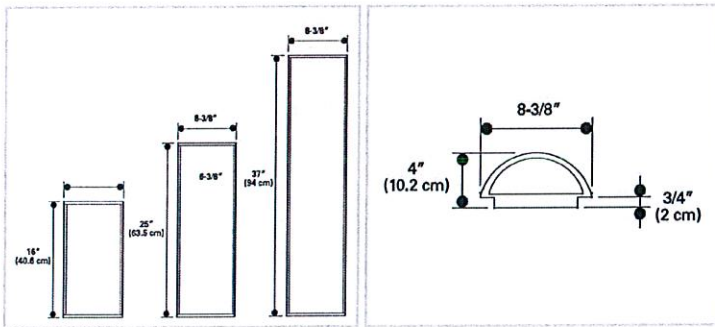
**Led efficiency:** 110 lm/W

**Color temperature:** 4000K, 5000K

**Operation temperature:** -20°C to 40°C

**Color Rendering Index (CRI):** 80

**THD%:** < 20%



Ordering information



Ordering Example: WP-1-1-1-1-1

Series	Wattage	Size	Color Temp	Finish	Optional
WP	1 = 20W MAX 2 = 29W MAX	1 = 16" 2 = 25" 3 = 37"	1 = 4000K 2 = 5000K	1 = Black 2 = Bronze Metallic 3 = Custom Color	1 = Two Vertical Trim Bars 2 = Closed Bottom Cover



**TPS - CHESTERFIELD, MO**  
**TYPE: Z62**  
**P251**

**TECHNICAL INFORMATION**

**FEATURES & SPECIFICATIONS**

The pole shaft is fabricated from hot rolled carbon steel having a minimum yield of 45,000 PSI and conforms to ASTM A500 grade C requirements. The shaft construction is a single piece of formed steel welded longitudinally. The hand hole is located 1' 6" above the pole base. A ground lug is provided standard.

**Anchor Base**

The anchor base is fabricated from a structural quality hot rolled carbon steel plate that has a minimum yield strength of 36,000 PSI. The anchor base telescopes the pole shaft and has a circumferential weld on the top and bottom.

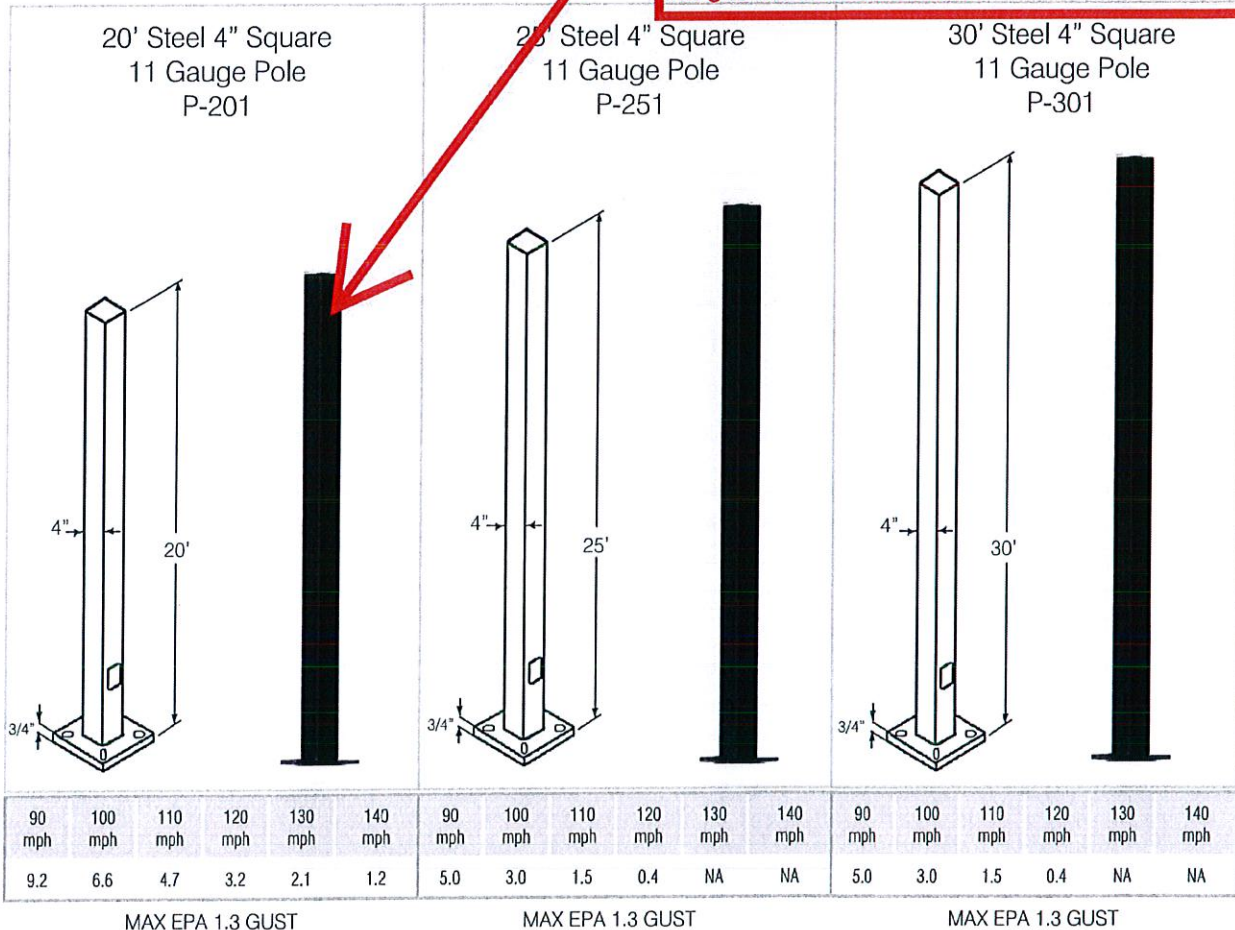
**Base Cover**

A full base cover is provided which encapsulates the base plate and anchor bolts to provide a clean transition from pier to pole.

**Finish**

The poles is finished with a Super Durable Powder coat Paint.

**Pole is to be less than 20' as per City Comments the pole height (including the concrete base) is not to exceed 20'. Per our vendor this is the intent. Height will not exceed 20'.**



**POLE ACCESSORIES**

	Item #	Description	Dimensions	Bolt Circle	Weight (lbs)	Units/ Carton
	P-TN01	4" Single Square Vertical Tenon	4"	12	2.7	12
	Item #	Description	Dimensions	Bolt Circle	Weight (lbs)	Units/ Carton
	P-TN02	4" 180° Twin Square Horizontal Tenon	4"	4	2.7	4
	Item #	Description	Dimensions	Bolt Circle	Weight (lbs)	Units/ Carton
	P-TN02-90	4" 90° Twin Square Horizontal Tenon	4"	4	2.7	4
	Item #	Description	Dimensions	Bolt Circle	Weight (lbs)	Units/ Carton
	P-TN03	4" 90° Triple Square Horizontal Tenon	4"	4	2.8	4
	Item #	Description	Dimensions	Bolt Circle	Weight (lbs)	Units/ Carton
	P-TN04	4" 90° Quad Square Horizontal Tenon	4"	4	3.2	4
	Item #	Description	Dimensions	Bolt Circle	Weight (lbs)	Units/ Carton
	P-WB01	Wall Mount 90° Bracket	6" x 8" x 4"	6	1.85	6
	Item #	Description	Dimensions	Bolt Circle	Weight (lbs)	Units/ Carton
	P-WB02	Wall Mount Bracket	3 4/5" x 4"	15	1.4	15



# SOLID STATE AREA LIGHTING

## LUM SERIES-PLED

### SPECIFICATIONS

#### HOUSING

Heavy cast low copper aluminum assembly (A360 alloy, <0.4% copper). Housing attaches to pole via a one piece, extruded aluminum arm with centering guides for internal draw bolts. Housing/pole junction is gasketed. All exposed hardware is stainless steel. Internal protected hardware is electro-zinc plated.

#### PLED™ OPTICS

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments.

#### LED DRIVERS

Drivers are UL and cUL recognized mounted on a single plate and factory prewired with quick-disconnect plugs. Constant current driver is electronic and has a power factor of >0.90 and a minimum operating temperature of -40°F. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

#### MOUNTINGS

Arm - One piece heavy wall extruded aluminum with internal draw bolt guides. Arm is secured to housing and pole with stainless steel draw bolts.

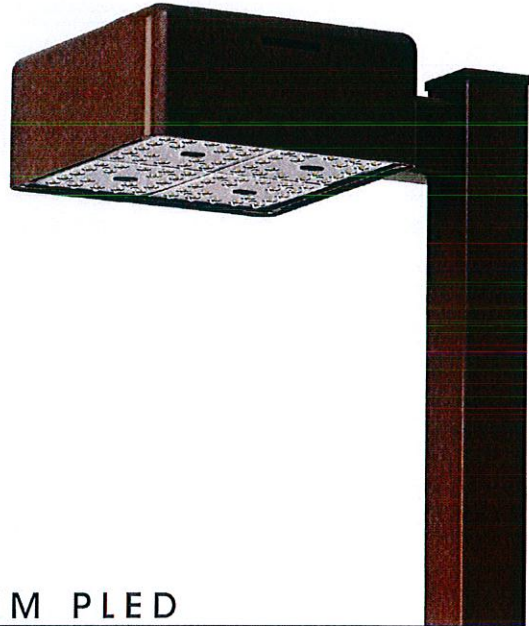
Wall - Heavy wall extruded aluminum arm with draw bolts integrates with a cast aluminum wall plate and mounting bracket.

#### FINISH

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step sand blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Texture finish is standard.

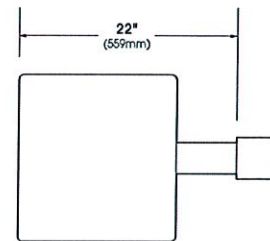
PROJECT NAME: Towne Place Suites

FIXTURE TYPE: Z62

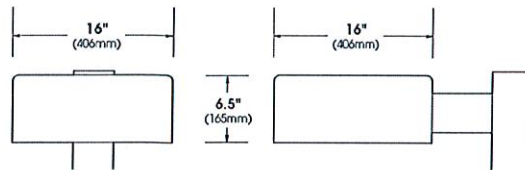


LUM PLED

PATENT PENDING



TOP VIEW



FRONT VIEW

SIDE VIEW



2017287

U.S. Architectural Lighting

660 West Avenue O, Palmcote, CA 93551  
Phone (661) 233-2000 Fax (661) 233-2001  
www.usalighting.com

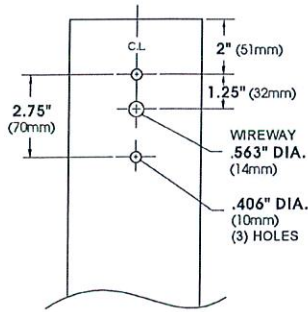


U.S. ARCHITECTURAL  
LIGHTING

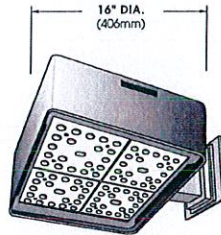
# LUM SERIES - PLED

## SPECIFICATIONS

### POLE DRILLING TEMPLATE

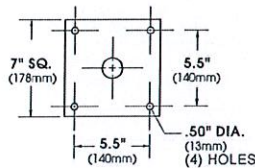


### WALL MOUNT

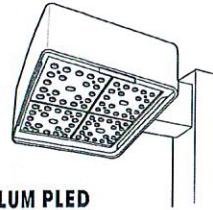


EXTRUDED ALUMINUM ARM AND CAST ALUMINUM WALL BRACKET ASSEMBLY PROVIDED WITH BUILT IN GASKETED WIRE ACCESS FOR FIXTURE/SUPPLY WIRE CONNECTION.

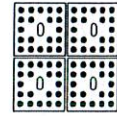
### WALL PLATE



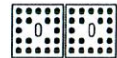
### PLED™ MODULES



**LUM PLED**  
E.P.A. = 1.12  
Available in:  
80 & 40 LED Array



80 LED Array



40 LED Array

No. of LEDs	Drive Current	System Watts	HID Equivalent
40	350mA	45	70 - 100
	525mA	66	100 - 150
	700mA	91	175
	1050mA	142	200 - 250
80	350mA	92	150 - 175
	525mA	136	200 - 250
	700mA	184	400

Spec/Order Example: LUM-LED/PLED-V-SQ/80LED-700mA/NW/277/1/RAL9005

## SPEC / ORDERING INFORMATION

MODEL	OPTICS	LED	MOUNTING	FINISH	OPTIONS
<input type="checkbox"/> <b>LUM LED</b>	<b>PLED™ DISTRIBUTION</b>	No. LEDs	ARM MOUNT	STANDARD TEXTURED FINISH	<input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NONINTEGRATED MOTION SENSOR ..... HLSW
<input type="checkbox"/> TYPE II PLED-II .....	<input type="checkbox"/> 80LED	<input type="checkbox"/> 1050mA	<input type="checkbox"/> 1-180 .....	<input type="checkbox"/> BLACK RAL-9005-T	<input type="checkbox"/> INTERNAL HOUSE SIDE SHIELD ... HS-PLED
<input type="checkbox"/> TYPE II FRONT ROW PLED-II-FR .....	<input type="checkbox"/> 40LED	<input type="checkbox"/> 700mA	<input type="checkbox"/> 2-90 .....	<input type="checkbox"/> WHITE RAL-9003-T	<input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) .. PC+V
<input type="checkbox"/> TYPE II MEDIAN ILLUMINATOR PLED-II-ML .....	<input type="checkbox"/> 525mA	<input type="checkbox"/> 350mA	<input type="checkbox"/> 3-120 .....	<input type="checkbox"/> GREY RAL-7004-T	<input type="checkbox"/> TWIST LOCK PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) .. TPC+V
<input type="checkbox"/> TYPE III PLED-III .....	NOTE: 1 - 700mA MAXIMUM		<input type="checkbox"/> 3-90 .....	<input type="checkbox"/> DARK BRONZE RAL-8019-T	<input type="checkbox"/> TWIST LOCK RECEPTACLE ONLY ... TPR
<input type="checkbox"/> TYPE IV PLED-IV .....	OTHER LED COLORS AVAILABLE CONSULT FACTORY	VOLTAGE	<input type="checkbox"/> 4-90 .....	<input type="checkbox"/> GREEN RAL-6005-T	<input type="checkbox"/> 7-PIN TWIST LOCK RECEPTACLE ONLY ... TPR7
<input type="checkbox"/> TYPE IV PLED-IV-FT .....		<input type="checkbox"/> 120	<b>ADJUSTABLE KNUCKLE FITTER</b>		<input type="checkbox"/> SINGLE FUSE (120V, 277V, 347V) .. SF
<input type="checkbox"/> TYPE V NARROW PLED-V-SQ-N .....		<input type="checkbox"/> 208	<input type="checkbox"/> NKLE27 .....		<input type="checkbox"/> DOUBLE FUSE (208V, 240V, 480V) .. DF
<input type="checkbox"/> TYPE V PLED-V-SQ-M .....		<input type="checkbox"/> 240	<input type="checkbox"/> NKLE23 .....		<input type="checkbox"/> STEP DIM MOTION SENSOR (PROGRAMMED 50/100) ..... MS-F211
<input type="checkbox"/> TYPE V PLED-V-SQ-W .....		<input type="checkbox"/> 277	<input type="checkbox"/> UNIVERSAL POLE ADAPTOR. .... UPA	FOR SMOOTH FINISH REPLACE SUFFIX 'T' WITH SUFFIX 'S' (EXAMPLE: RAL-9005-S)	<input type="checkbox"/> REMOTE MOTION SENSOR CONFIGURATOR ..... MS-FC10
		<input type="checkbox"/> 347	<b>WALL MOUNT</b>	SEE USALTG.COM FOR ADDITIONAL COLORS	
		<input type="checkbox"/> 480	<input type="checkbox"/> WM .....		



# LUM SERIES - PLED

## LAMP/ELECTRICAL GUIDE

LED COUNT	SOURCE TYPE	SOURCE	INITIAL LUMENS - 4000K	INITIAL LUMENS - 3000K	INITIAL LUMENS - 5000K	L70 GREATER THAN (HR)	STARTING TEMP.	SYSTEM WATTS	VOLTS	MAX INPUT AMPS
40	LED	40 PLED Optical Module - 350mA	5,077 - 5,464	4,445 - 4,784	5,199 - 5,595	60,000+	-20°F	45	120 277	0.38 0.17
40	LED	40 PLED* Optical Module - 525mA	6,977 - 7,507	6,108 - 6,573	7,144 - 7,687	60,000+	-20°F	66	120 277	0.58 0.25
40	LED	40 PLED* Optical Module - 700mA	8,425 - 9,067	7,376 - 7,938	8,627 - 9,285	60,000+	-20°F	91	120 277	0.76 0.33
40	LED	40 PLED* Optical Module - 1050mA	10,956 - 11,792	9,592 - 10,324	11,219 - 12,075	60,000+	-20°F	142	120 277	1.19 0.52
80	LED	80 PLED* Optical Module - 350mA	10,153 - 10,926	8,889 - 9,566	10,397 - 11,188	60,000+	-20°F	92	120 277	0.77 0.34
80	LED	80 PLED* Optical Module - 525mA	13,952 - 15,015	12,215 - 13,146	14,287 - 15,376	60,000+	-20°F	136	120 277	1.14 0.60
80	LED	80 PLED* Optical Module - 700mA	16,851 - 18,139	14,752 - 15,877	17,254 - 18,570	60,000+	-20°F	184	120 277	1.54 0.67

### NOTES:

1. Max Input Amps is the highest of starting, operating, or open circuit currents
2. Lumen values for LED Modules vary according to the distribution type
3. System Watts includes the source watts and all driver components.
4. Fuse value should be sufficient to protect all wiring components. For electronic driver and LED component protection, use 10KV - 20KV surge suppressors.
5. L70(9K) - TM-21 6x rule applied

WARNING: All fixtures must be installed in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.



# SOLID STATE AREA LIGHTING

## LUM SERIES-PLED

### SPECIFICATIONS

#### HOUSING

Heavy cast low copper aluminum assembly (A360 alloy, <0.4% copper). Housing attaches to pole via a one piece, extruded aluminum arm with centering guides for internal draw bolts. Housing/pole junction is gasketed. All exposed hardware is stainless steel. Internal protected hardware is electro-zinc plated.

#### PLED™ OPTICS

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments.

#### LED DRIVERS

Drivers are UL and cUL recognized mounted on a single plate and factory prewired with quick-disconnect plugs. Constant current driver is electronic and has a power factor of >0.90 and a minimum operating temperature of -40°F. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

#### MOUNTINGS

**Arm** - One piece heavy wall extruded aluminum with internal draw bolt guides. Arm is secured to housing and pole with stainless steel draw bolts.

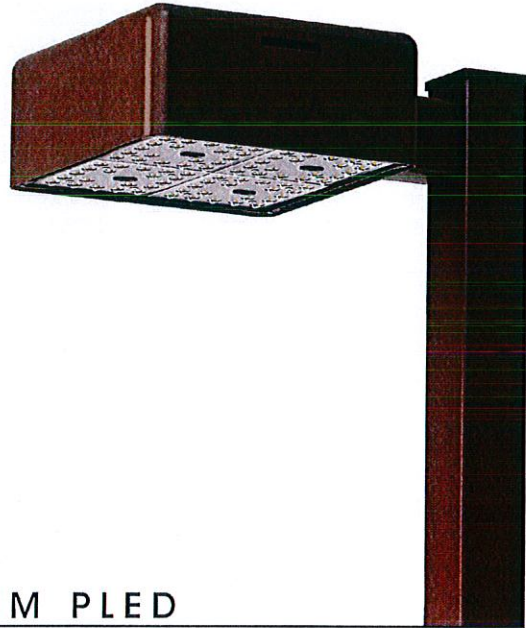
**Wall** - Heavy wall extruded aluminum arm with draw bolts integrates with a cast aluminum wall plate and mounting bracket.

#### FINISH

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step sand blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Texture finish is standard.

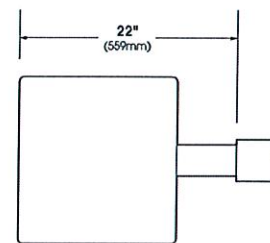
PROJECT NAME: Towne Place Suites

FIXTURE TYPE: Z62 Wall

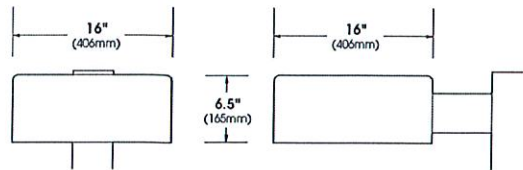


## LUM PLED

PATENT PENDING



TOP VIEW



FRONT VIEW

SIDE VIEW



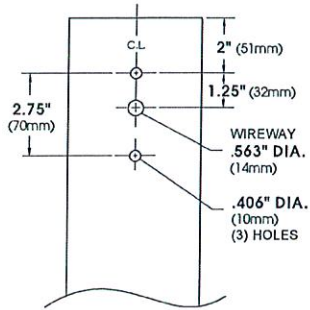
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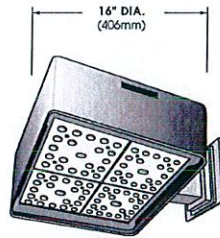
# LUM SERIES - PLED

## SPECIFICATIONS

### POLE DRILLING TEMPLATE

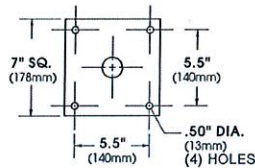


### WALL MOUNT

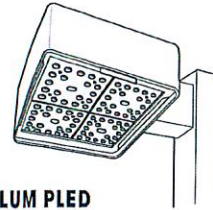


EXTRUDED ALUMINUM ARM AND CAST ALUMINUM WALL BRACKET ASSEMBLY PROVIDED WITH BUILT IN GASKETED WIRE ACCESS FOR FIXTURE/SUPPLY WIRE CONNECTION.

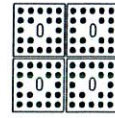
### WALL PLATE



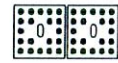
### PLED™ MODULES



**LUM PLED**  
E.P.A. = 1.12  
Available in:  
80 & 40 LED Array



80 LED Array



40 LED Array

No. of LEDs	Drive Current	System Watts	HID Equivalent
40	350mA	45	70 - 100
	525mA	66	100 - 150
	700mA	91	175
	1050mA	142	200 - 250
80	350mA	92	150 - 175
	525mA	136	200 - 250
	700mA	184	400

Spec/Order Example: LUM-LED/PLED-V-SQ/80LED-700mA/NW/277/1/RAL9005

## SPEC / ORDERING INFORMATION

MODEL	OPTICS	LED	MOUNTING	FINISH	OPTIONS
<input type="checkbox"/> LUM LED	<b>PLED™ DISTRIBUTION</b> <input type="checkbox"/> TYPE II PLED-II ..... <input type="checkbox"/> TYPE II FRONT ROW PLED-II-FR ..... <input type="checkbox"/> TYPE II MEDIAN ILLUMINATOR PLED-II-ML ..... <input type="checkbox"/> TYPE III PLED-III ..... <input type="checkbox"/> TYPE IV PLED-IV ..... <input type="checkbox"/> TYPE IV PLED-IV-FT ..... <input type="checkbox"/> TYPE V NARROW PLED-V-SQ-N ..... <input type="checkbox"/> TYPE V PLED-V-SQ-M ..... <input type="checkbox"/> TYPE V PLED-V-SQ-W .....	No. LEDs <input type="checkbox"/> 80LED <sup>1</sup> <input type="checkbox"/> 1050mA <input type="checkbox"/> NW (4000K)* <input type="checkbox"/> 40LED <input type="checkbox"/> 700mA <input type="checkbox"/> CW (5000K) <input type="checkbox"/> 525mA <input type="checkbox"/> WW (3000K) <input type="checkbox"/> 350mA NOTE: 1 - 700mA MAXIMUM OTHER LED COLORS AVAILABLE CONSULT FACTORY VOLTAGE <input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480	<b>ARM MOUNT</b> <input type="checkbox"/> 1-..... <input type="checkbox"/> 2-180 ..... <input type="checkbox"/> 2-90 ..... <input type="checkbox"/> 3-120 ..... <input type="checkbox"/> 3-90 ..... <input type="checkbox"/> 4-90 ..... <b>ADJUSTABLE KNUCKLE FITTER</b> <input type="checkbox"/> NKLE27 ..... <input type="checkbox"/> NKLE23 ..... <input type="checkbox"/> UNIVERSAL POLE ADAPTOR, .... UPA <b>WALL MOUNT</b> <input type="checkbox"/> WM .....	<b>STANDARD TEXTURED FINISH</b> <input type="checkbox"/> BLACK RAL-9005-T <input type="checkbox"/> WHITE RAL-9003-T <input type="checkbox"/> GREY RAL-7004-T <input type="checkbox"/> DARK BRONZE RAL-8019-T <input type="checkbox"/> GREEN RAL-6005-T FOR SMOOTH FINISH REPLACE SUFFIX 'T' WITH SUFFIX 'S' (EXAMPLE: RAL-9005-S) SEE USALIG.COM FOR ADDITIONAL COLORS	<input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NONINTEGRATED MOTION SENSOR ..... HLSW <input type="checkbox"/> INTERNAL HOUSE SIDE SHIELD ... HS-PLED <input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) .. PC+V <input type="checkbox"/> TWIST LOCK PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) .. TPC+V <input type="checkbox"/> TWIST LOCK RECEPTACLE ONLY ... TPR <input type="checkbox"/> 7-PIN TWIST LOCK RECEPTACLE ONLY ... TPR7 <input type="checkbox"/> SINGLE FUSE (120V, 277V, 347V) ... SF <input type="checkbox"/> DOUBLE FUSE (208V, 240V, 480V) ... DF <input type="checkbox"/> STEP DIM MOTION SENSOR (PROGRAMMED 50/100) ..... MS-F211 <input type="checkbox"/> REMOTE MOTION SENSOR CONFIGURATOR ..... MS-FC10



# LUM SERIES - PLED

## LAMP/ELECTRICAL GUIDE

LED COUNT	SOURCE TYPE	SOURCE	INITIAL LUMENS - 4000K	INITIAL LUMENS - 3000K	INITIAL LUMENS - 5000K	L70 GREATER THAN (HR)	STARTING TEMP.	SYSTEM WATTS	VOLTS	MAX INPUT AMPS
40	LED	40 PLED Optical Module - 350mA	5,077 - 5,464	4,445 - 4,784	5,199 - 5,595	60,000+	-20°F	45	120 277	0.38 0.17
40	LED	40 PLED* Optical Module - 525mA	6,977 - 7,507	6,108 - 6,573	7,144 - 7,687	60,000+	-20°F	66	120 277	0.58 0.25
40	LED	40 PLED* Optical Module - 700mA	8,425 - 9,067	7,376 - 7,938	8,627 - 9,285	60,000+	-20°F	91	120 277	0.76 0.33
40	LED	40 PLED* Optical Module - 1050mA	10,956 - 11,792	9,592 - 10,324	11,219 - 12,075	60,000+	-20°F	142	120 277	1.19 0.52
80	LED	80 PLED* Optical Module - 350mA	10,153 - 10,926	8,889 - 9,566	10,397 - 11,188	60,000+	-20°F	92	120 277	0.77 0.34
80	LED	80 PLED* Optical Module - 525mA	13,952 - 15,015	12,215 - 13,146	14,287 - 15,376	60,000+	-20°F	136	120 277	1.14 0.50
80	LED	80 PLED* Optical Module - 700mA	16,851 - 18,139	14,752 - 15,877	17,254 - 18,570	60,000+	-20°F	184	120 277	1.54 0.67

### NOTES:

1. Max Input Amps is the highest of starting, operating, or open circuit currents
2. Lumen values for LED Modules vary according to the distribution type
3. System Watts includes the source watts and all driver components.
4. Fuse value should be sufficient to protect all wiring components. For electronic driver and LED component protection, use 10KV - 20KV surge suppressors.
5. L70(9K) - TM-21 6x rule applied

WARNING: All fixtures must be installed in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.





Towneplace Suites  
 Type Z65  
 IMPAL2-30-LED-35-U-50-B

Architectural Area Light

Outdoor

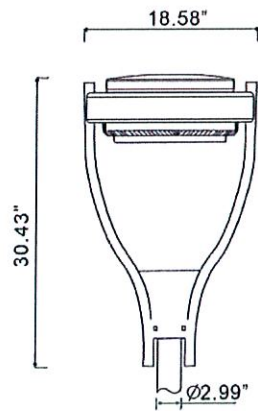


IMPAL2

**Product Specifications**

**Housing:** Die-cast aluminum base, corrosion-resistant polyester powder coat finished  
**Lens:** The optic chamber is surrounded and sealed with silicon gasket ensuring good performance  
**Mounting:** Post Top Mounting  
**Electrical:** AC 90-277v  
**Wattage:** 70W / 95W  
**Finish:** BRONZE  
**Certification:** cETLus, IP66, CE  
**System Light Efficiency:** > 100 lm/W AC90-277V  
**IP Grade:** IP65  
**Color Temperature:** 4000K、 5000K、 6000K  
**Applicable places:** Business district, square, walking street, park, residence community etc.

**Dimensional Drawings:**



**Ordering information**

Example: IMPAL2-30-LED-70-U-40-B

Series	Source	Wattage	Voltage	CCT	Finish	Options
IMPAL2	LED=LED	70=70W 95=95W 35 = 35W	U=AC90-277V	40=4000K 50=5000K 60=6000K	B=(Bronze)	

\*Consult Factory regarding availability.



# Steel Poles

Towneplace Suites  
Type Z66  
SP13081



4" ROUND STRAIGHT

Item #	Description	Finish/Color	Dimensions	Bolt Circle	Bolt Size	Weight (lbs)	Unit Per Master Carton
SP130161	Shaft Size 16" Gauge 11	Bronze	9.5"X9.5"X3/4"	7"	3/4"X30	173	200

For additional colors, heights, and gauges, please contact your sales associate.

**Wind Specifications**

Wind Data	Pole	80 MPH Max EPA	80 MPH Fixture Wt. (lbs)	90 MPH Max EPA	90 MPH Fixture Wt. (lbs)	100 MPH Max EPA	100 MPH Fixture Wt. (lbs)
1	16' 4SQ 11Ga	12.1	110	10.2	110	7.8	110
2	20' 4SQ 11Ga	9.2	100	6.7	100	4.9	100
3	20' 4SQ Ga	14.8	135	10.2	135	6.9	135
4	24' 4SQ 7Ga.	8.9	110	5.8	110	3.2	110

Note - 8 Ft is a special order



5" ROUND STRAIGHT

Item #	Description	Finish/Color	Dimensions	Bolt Circle	Bolt Size	Weight (lbs)	Unit Per Master Carton
SP130202	Shaft Size 25" Gauge 11	Bronze	10.5"X10.5"X3/4"	12"-3/4	1"X36"	380	220

For additional colors, heights, and gauges, please contact your sales associate.

**Wind Specifications**

Wind Data	Pole	80 MPH Max EPA	80 MPH Fixture Wt. (lbs)	90 MPH Max EPA	90 MPH Fixture Wt. (lbs)	100 MPH Max EPA	100 MPH Fixture Wt. (lbs)
1	16' 5RD 11Ga	36.1	200	24.8	200	13.8	200
2	20' 5RD 11Ga	19.2	150	13.4	150	9.31	150
3	25' 5RD 7Ga	32.5	275	22.3	275	31.49	275
4	25 5RD 11Ga.	10.9	125	7.6	125	35.9	125
5	25" 5RD 7Ga	19.7	250	13.2	250	10.7	250

**Standard Options**

Colors

BLACK	WHITE
BRONZE	PLATINUM

Customers may choose between a galvanized finish, powder coating finish, or our premier primer plus powder coating service.

For additional colors, heights and gauges, please contact your sales associate.

Z97  
Towneplace Suites



**T1-SLED Series**

LED Strip



TI-SLED8

TI-SLED4

**DESCRIPTION**

The small size of the T1-SLED makes it an ideal choice for size restricted architectural applications. The T1-SLED series can be the illumination solution in commercial, industrial, retail and residential applications. Fixture can be used in storage / utility areas, coves, display cases, shops, task and general area lighting.

**Specification Features**

**Construction**

Durable post painted steel housing with white gloss finish and optional Frosted Polycarbonate lens.

**Applications**

Warehouses, Retail, Offices, etc.

**Mounting**

Surface mount or pendant mount with aircraft cable option.

**Certification**

DLC Premium, UL Listed. All components have UL certification.  
Protection Grade IP20.

**Warranty**

7-year Limited Warranty. See warranty documentation for more information.

<b>Input Voltage</b>	120-277V
<b>Input Frequency</b>	50/60 Hz
<b>Rated Wattage</b>	See Performance Data
<b>Delivered Lumens</b>	See Performance Data
<b>Efficacy</b>	> 130 LPW
<b>CRI</b>	> 80
<b>Available CCT</b>	4000K, 5000K
<b>Color Consistency</b>	5-step MacAdam Ellipse
<b>Rated Life</b>	> 50,000 hours
<b>Ambient Temp.</b>	-20°C to 50°C
<b>Power Factor</b>	> 0.92
<b>THD</b>	< 20%
<b>Dimming</b>	0-10V Continuous (10-100%)

**Ordering Options**

Example: T1-SLED436-50

T1-SLED	4	36	- 50	[Blank]	[Blank]
<b>Series</b>	<b>Form Factor</b>	<b>Rated Wattage</b>	<b>Color Temp</b>	<b>Lens Difuser</b>	<b>Dimming</b>
T1-SLED	4' 4' 8' 8'	4' 24W 36' 36W 8' 48W 72' 72W	40 4000K 50 5000K	Blank Frosted	Blank 0-10V
<b>Options</b>					
<b>Emergency Backup</b>		<b>Controls</b>		<b>Accessories</b>	
EM ST Step-down Transformer 347-480V		OS Occupancy Sensor OSDL Occ. Sensor w/ Daylight		AC Aircraft cable suspension kit CRD Cord	



# T1-SLED Series

LED Strip



## Performance Data

### T1-SLED

Lens Type	Form Factor	Catalog No.	Rated Wattage (W)	4000K		5000K	
				Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)
Frosted Lens	4'	T1-SLED424	24	3,309.6	137.9	3,324	138.5
		T1-SLED436	36	4,712.4	130.9	4,741.2	131.7
	8'	T1-SLED848	48	6,619.2	137.9	6,638.4	138.3
		T1-SLED872	72	9,424.8	130.9	9,475.2	131.6

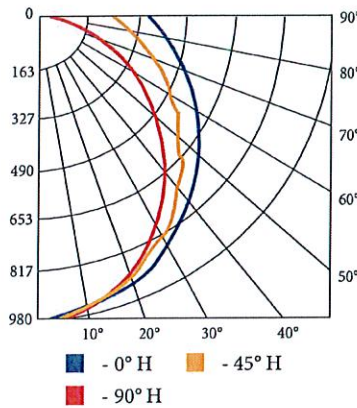


## Photometric Data

### T1-SLED4/36-40

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%



RCC%	80				70				50		
RW%	70	50	30	0	70	50	30	0	50	30	20
RCR: 0	.90	.90	.90	.90	.88	.88	.88	.75	.84	.84	.84
1	.80	.75	.71	.67	.77	.73	.69	.59	.70	.67	.64
2	.72	.64	.58	.53	.69	.63	.57	.48	.60	.55	.51
3	.65	.56	.49	.43	.63	.55	.48	.40	.52	.47	.42
4	.59	.49	.42	.36	.57	.48	.41	.34	.46	.40	.35
5	.54	.44	.36	.31	.53	.43	.36	.29	.41	.35	.30
6	.50	.39	.32	.27	.49	.39	.32	.26	.37	.31	.26
7	.46	.36	.29	.24	.45	.35	.28	.23	.34	.28	.23
8	.43	.32	.26	.21	.42	.32	.25	.20	.31	.25	.21
9	.40	.30	.23	.19	.39	.29	.23	.18	.28	.23	.19
10	.38	.27	.21	.17	.37	.27	.21	.17	.26	.21	.17

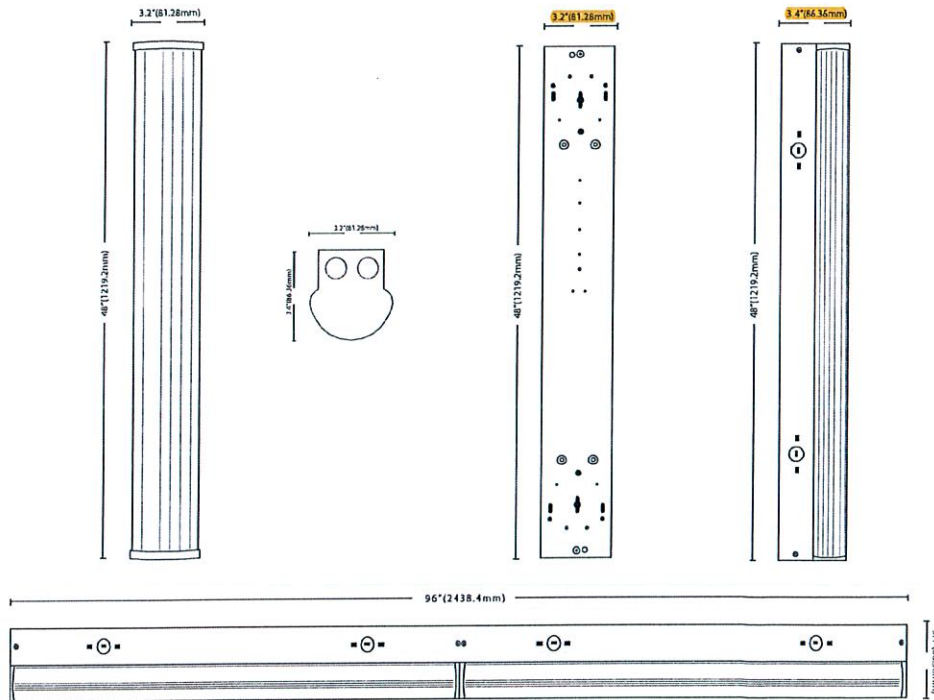
### Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	748.0	17.2%	22.8%
0-40	1,230.4	28.3%	37.5%
0-60	2,237.2	51.4%	68.2%
60-90	1,043.9	24%	31.8%
0-90	3,281.1	75.4%	100%



## Dimensions

### T1-SLED4 / SLED8



# REL7LED

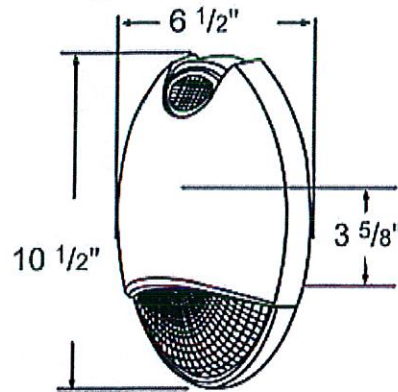
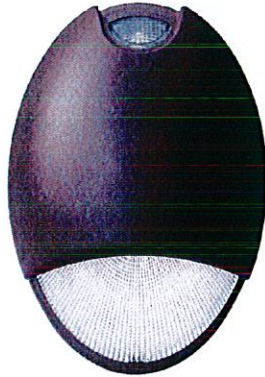
120V/277V

TPS - CHESTERFIELD, MO

TYPE: X04

REL7LED OB

## Outdoor LED Emergency Light w/ Sensor



Outdoor LED Emergency Light

### DESCRIPTION

Shed safety and security around building exteriors without lifting a finger. The REL7LED Outdoor Emergency Light has a built-in photosensor, allowing for automatic operation at dusk and dawn. The compact, low-profile design and contemporary styling make it a great choice for any exterior decor.

### DESIGN FEATURES

#### Construction

- Durable, die-cast aluminum housing
- Compact, low-profile design

#### Electrical

- 120V/277V
- Photo sensor for automatic operation
- Long-life, maintenance-free, rechargeable high temperature Ni-Cad battery
- 90 minutes operation during power failure
- Automatic low voltage disconnect protects against deep discharge
- Long-life LEDs and electrical driver
- 50,000 hour projected life
- Wet location rated
- 15W | 1300Lm | 5000K

#### Installation

- Simple one-person installation with included mounting hardware

#### Lens

- Gasketed UV resistant polycarbonate lens

#### Finish

- Oil Rubbed Bronze or White finish

#### Available options

- Coldweather option: -17°C to 50°C (0°F to 122°F)
- Non-coldweather range: 0°C to 50°C (32°F to 122°F)

#### Certifications

- CSA-us for wet location



TEL: 800.937.6925 | Fax: 800.207.9509 | [www.rplighting.com](http://www.rplighting.com)

Specifications and dimensions subject to change without notice.



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# REL7LED

120V/277V

## Specification & Ordering

Model #	Dimensions (H x W x D)	Watts	Lumens	Finish
REL7LED-OB	10.5" x 6.5" x 3.63"	15W	1,300 Lm	Oil Rubbed Bronze
REL7LED-OB-C Cold Weather Heatpad	10.5" x 6.5" x 3.63"	15W	1,300 Lm	Oil Rubbed Bronze
REL7LED-WH	10.5" x 6.5" x 3.63"	15W	1,300 Lm	White
REL7LED-WH-C Cold Weather Heatpad	10.5" x 6.5" x 3.63"	15W	1,300 Lm	White

Outdoor LED Emergency Light

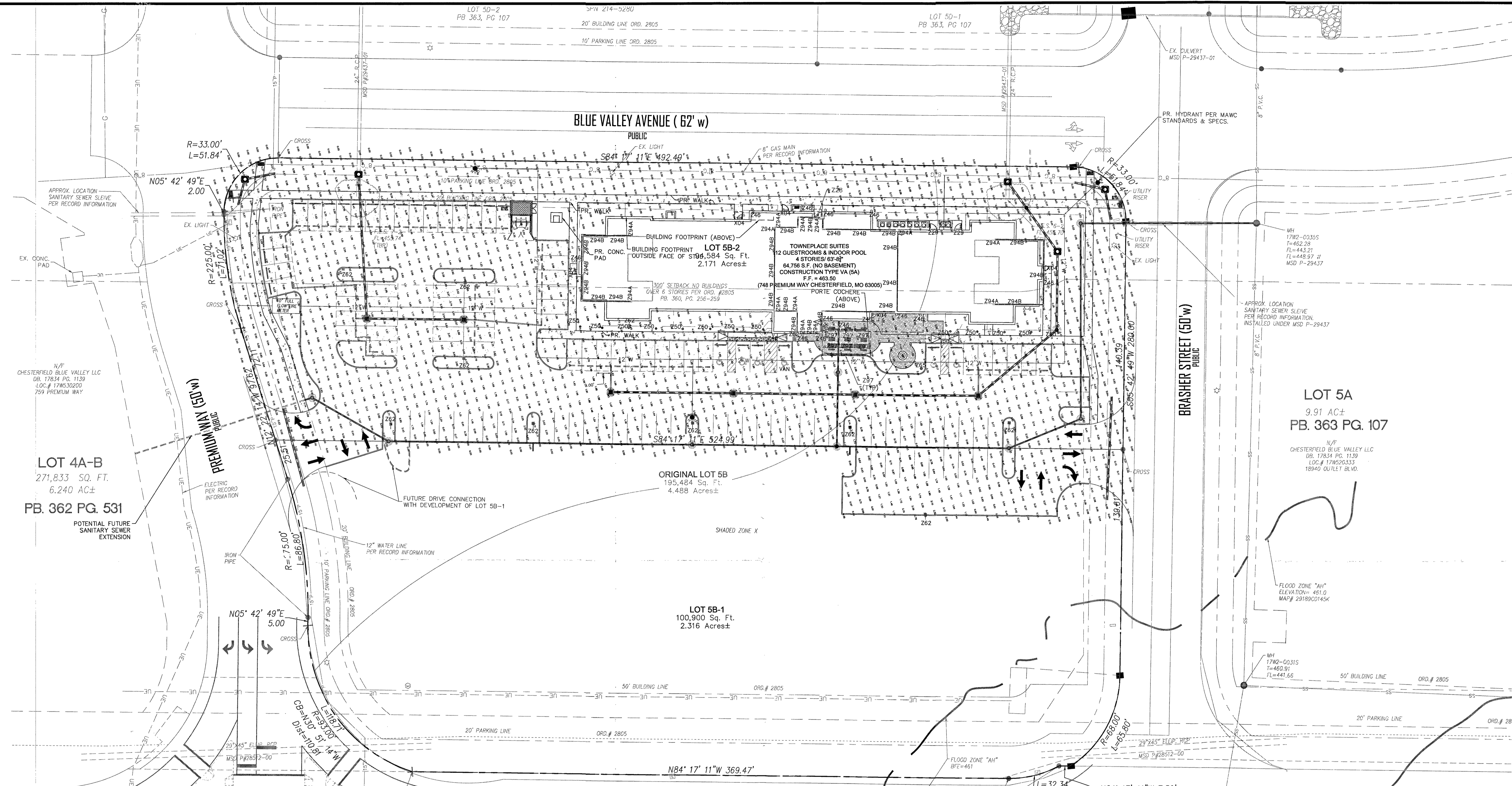
ORDERING		Example: REL7LED-OB-C	
Model #	Finish	Cold Weather Option	
REL7LED			
REL7LED	-OB : Oil Rubbed Bronze -WH : White	-C	: Cold Weather Heatpad

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**LOT 4A-B**  
271,833 SQ. FT.  
6.240 AC±  
PB. 362 PG. 531

**ORIGINAL LOT 5B**  
195,484 Sq. Ft.  
4.488 Acres±

**LOT 5B-1**  
100,900 Sq. Ft.  
2.316 Acres±

**LOT 5A**  
9.91 AC±  
PB. 363 PG. 107

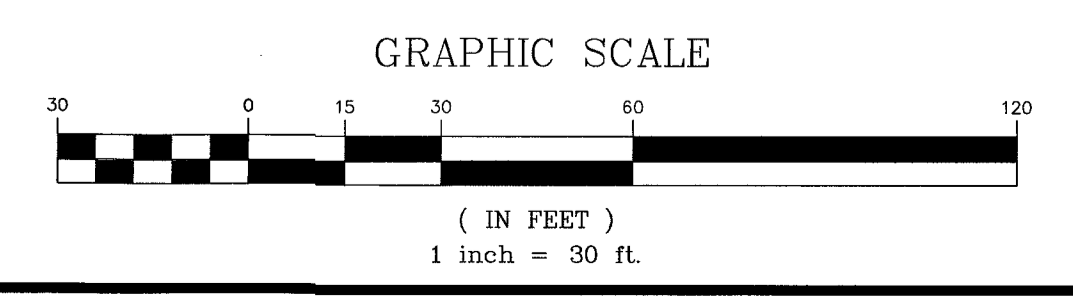
AREA	AVERAGE ILLUMINANCE	MINIMUM ILLUMINANCE	MAXIMUM ILLUMINANCE	AVG/MIN	MAX/MIN
PARKING AREA	1.45	0.27	4.03	5.37	14.92
WALKWAYS	0.97	0.00	7.95	NA	NA
ENTRANCE	3.80	1.04	7.02	3.65	6.75
OVER ALL	1.03	0.00	7.44	NA	NA

Code	Symbol	Quantity	Article number	Article name	Equipment
Z50	●	13	L1-BLDB025-C	BOLLARD B - 25W C	1x Cree chips 25 W
Z62	■	10	LUM-PLD-III-W-80LED-525mA-NW	CAST BLACK PAINTED FINNED METAL HOUSING, CAST BLACK	80x EIGHTY WHITE LIGHT EMITTING DIODES (LEDS)
Z62	■	2	LUM-PLD-III-W-80LED-525mA-NW	CAST BLACK PAINTED FINNED METAL HOUSING, CAST BLACK	80x EIGHTY WHITE LIGHT EMITTING DIODES (LEDS)
Z46	○	15	WP-1-1-1	Wall Sconce	1x ZOW LED 20 W
Z97	■	12	T1-SLED436-40	T1-SLED436-40	2xLS-4FT-DZ-ACT-750-50-120V
Z28	●	1	NRM-6-L-20-30	LED Downlight	1x LED 25 W
Z29	■	2	LW360-25W-50K	Wall Flood	1x LED 25 W
Z94A	—	22	LWW-W55A-L5	Wall Washer	1x LED 20 W
Z94B	—	108	LWW-W55A-L10	Wall Washer	1x LED 40 W
X04	□	06	OUTDOOR EMERGENCY LIGHT	REL7LED	15 W LED
Z65	⊕	01	OUTDOOR AREA LIGHT	MPAL2-30-LED-35-U	35 W LED

This Site Photometric Plan was approved by the City of Chesterfield Planning Commission and duly verified on the \_\_\_\_\_ day of \_\_\_\_\_ 2018, by the Chairperson of said Commission, authorizing the recording of this Site Photometric Plan pursuant to Chesterfield Ordinance No. 200, as attested to by the Planning and Development Services Director and the City Clerk.

By: \_\_\_\_\_  
Justin Wyse, Director of Planning and Development Services

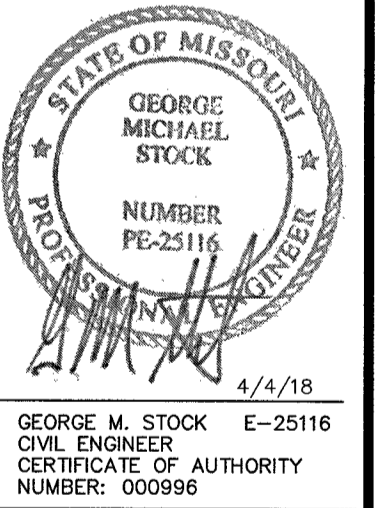
By: \_\_\_\_\_  
Vickie Hass, City Clerk



PREPARED BY:  
**STOCK & ASSOCIATES**  
Consulting Engineers, Inc.

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St. Louis, MO 63005 PH: (636) 530-9100 FAX: (636) 530-9100  
E-mail: general@stockand.com Web: www.stockand.com

SITE DEVELOPMENT SECTION PLANS FOR:  
**LOT 5B-2**  
748 PREMIUM WAY - LOT 5B-2  
CHESTERFIELD, MO 63005



- REVISIONS:
- 2016-09-28 CITY SDSP COMMENTS
  - 2016-11-08 CITY SDSP COMMENTS
  - 2016-12-15 CITY
  - 2017-01-13 MYLARS
  - 2017-05-12 CITY
  - 2018-1-15 LIGHTING
  - 2018-3-2 LIGHTING
  - 2018-4-4 LIGHTING

DRAWN BY: K.M.S. CHECKED BY: G.M.S.  
DATE: 9/2/2016 JOB NO: 216-5750.1  
M.S.D. P. # P-0029437-04 BASE MAP # 16W, 17W  
S.L.C. H&T # H&T SUP. #  
M.D.N.R. #  
SHEET TITLE: **PHOTOMETRIC PLAN**  
SHEET NO.: **SDSP-3**