

EXPEDITED AVAILABILITY

QSR - PLED

SPECIFICATIONS

OPTICAL HOUSING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance $\pm .003"$) to facilitate thermal transfer of heat to housing and cooling fins. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated to create one assembly. Minimum wall thickness is .188".

ELECTRICAL HOUSING w/ INTEGRATED ARM

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

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. 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 Type III and Type IV site/area distributions. Panels are field replaceable and field rotatable in 90° increments. LED's are 4000K CCT.

LED DRIVER(S)

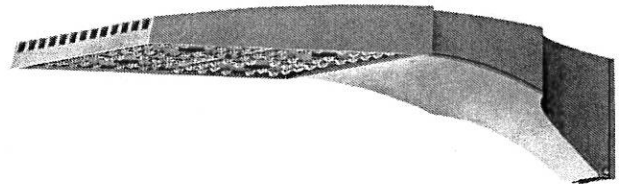
Constant current electronic with a power factor of $>.90$ and a minimum operating temperature of -40°F . Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal 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.

FINISH

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

PROJECT NAME: Kessler Ridge apartment

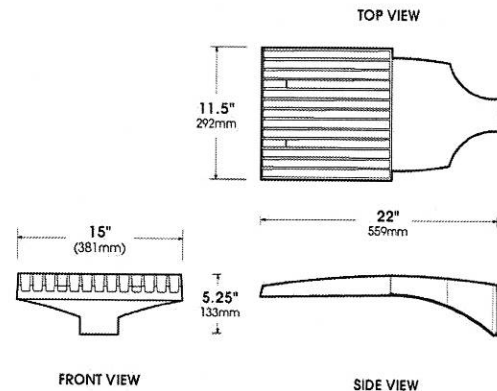
PROJECT TYPE: Site light pole type 'PL'



QSR-LED*

*UNIVERSAL POLE MOUNTING BRACKET INCLUDED

PATENT PENDING



2017296

U.S. Architectural Lighting

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



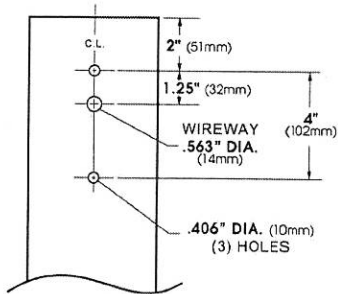
U.S. ARCHITECTURAL
LIGHTING

QSR - PLED

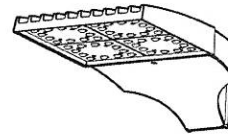
PROMOTION

SPECIFICATIONS

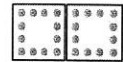
POLE DRILLING TEMPLATE



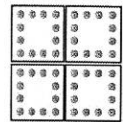
PLED™ MODULES



QSR-LED
E.P.A. = 0.45
Available in:
48 & 24 LED Module

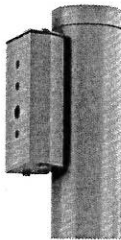


24 LED Array

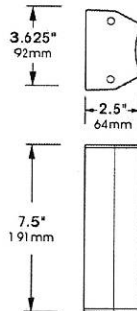


48 LED Array

UNIVERSAL POLE MOUNTING BRACKET (INCLUDED)



FITS ROUND OR SQUARE POLES.



SPEC / ORDERING INFORMATION

| CATALOG # | LED COUNT | VOLTAGE | WATTS | LUMENS | REPLACES HID | OPTIONS |
|--|-----------|---|-------|--------|--------------|---|
| * = Specify Voltage | | | | | | |
| <input type="checkbox"/> QSR/2480/PLED-III/* /RAL-8019/DBZ | 24 | <input type="checkbox"/> 120 | 68 | 7548 | 150W | <input type="checkbox"/> SURGE PROTECTOR... SP |
| <input type="checkbox"/> QSR/2480/PLED-IV/* /RAL-8019/DBZ | 24 | <input checked="" type="checkbox"/> 208 | 68 | 7480 | 150W | |
| <input type="checkbox"/> QSR/4850/PLED-III/* /RAL-8019/DBZ | 48 | <input type="checkbox"/> 240 | 79 | 10349 | 250W | <input type="checkbox"/> HOUSE SIDE SHIELD... HS-PLED |
| <input type="checkbox"/> QSR/4850/PLED-IV/* /RAL-8019/DBZ | 48 | <input type="checkbox"/> 277 | 79 | 10270 | 250W | |
| <input type="checkbox"/> QSR/4810/PLED-III/* /RAL-8019/DBZ | 48 | | 160 | 18240 | 400W | |
| <input checked="" type="checkbox"/> QSR/4810/PLED-IV/* /RAL-8019/DBZ | 48 | | 160 | 18040 | 400W | |
| * = Specify Voltage | | | | | | |
| <input type="checkbox"/> QSR/2480/PLED-III/* /RAL-8019/DBZ | 24 | <input type="checkbox"/> 347 | 68 | 7548 | 150W | |
| <input type="checkbox"/> QSR/2480/PLED-IV/* /RAL-8019/DBZ | 24 | <input type="checkbox"/> 480 | 68 | 7480 | 150W | |
| <input type="checkbox"/> QSR/4850/PLED-III/* /RAL-8019/DBZ | 48 | | 79 | 10349 | 250W | |
| <input type="checkbox"/> QSR/4850/PLED-IV/* /RAL-8019/DBZ | 48 | | 79 | 10270 | 250W | |
| <input type="checkbox"/> QSR/4810/PLED-III/* /RAL-8019/DBZ | 48 | | 160 | 18240 | 400W | |
| <input type="checkbox"/> QSR/4810/PLED-IV/* /RAL-8019/DBZ | 48 | | 160 | 18040 | 400W | |

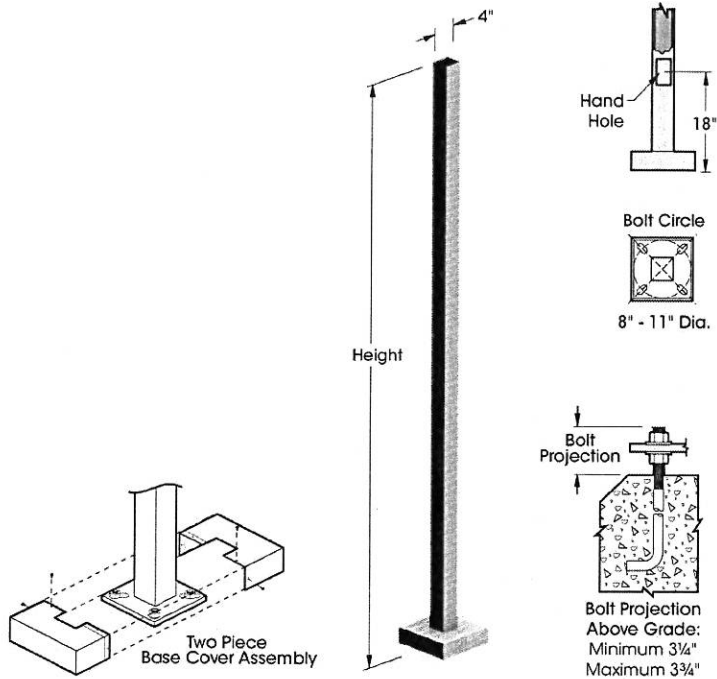


QSR - PLED

100 MPH PROMOTION

SPECIFICATIONS

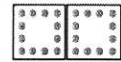
POLE



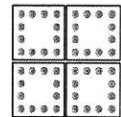
PLED™ MODULES



QSR-LED
E.P.A. = 0.45
Available in:
48 & 24 LED Module



24 LED Array



48 LED Array

SPEC / ORDERING INFORMATION

| POLE | CATALOG # | VOLTAGE | WATTS | LUMENS | REPLACES HID | LED COUNT | OPTIONS |
|-----------------------|---|---|-------|--------|-----------------|--------------|---|
| 15'0"- 4" Sq - 11Ga | <input type="checkbox"/> SNTS-154-11/QSR/2480/PLED-III/* /RAL-8019/DBZ | <input type="checkbox"/> 120 | 68 | 7548 | 150W | 24 | <input type="checkbox"/> SURGE PROTECTOR SP |
| 15'0"- 4" Sq - 11Ga | <input type="checkbox"/> SNTS-154-11/QSR/2480/PLED-IV/* /RAL-8019/DBZ | <input checked="" type="checkbox"/> 208 | 68 | 7480 | 150W | 24 | <input type="checkbox"/> HOUSE SIDE SHIELD HS-PLED |
| ✓ 20'0"- 4" Sq - 11Ga | <input checked="" type="checkbox"/> SNTS-204-11/QSR/4850/PLED-III/* /RAL-8019/DBZ | <input type="checkbox"/> 240 | 79 | 10349 | 250W | 48 | |
| 20'0"- 4" Sq - 11Ga | <input type="checkbox"/> SNTS-204-11/QSR/4850/PLED-IV/* /RAL-8019/DBZ | <input type="checkbox"/> 277 | 79 | 10270 | 250W | 48 | |
| 25'0"- 4" Sq - 11Ga | <input type="checkbox"/> SNTS-254-11/QSR/4810/PLED-III/* /RAL-8019/DBZ | | 160 | 18240 | 400W | 48 | |
| 25'0"- 4" Sq - 11Ga | <input type="checkbox"/> SNTS-254-11/QSR/4810/PLED-IV/* /RAL-8019/DBZ | | 160 | 18040 | 400W | 48 | |
| * = Specify Voltage | | | | | | | |
| 15'0"- 4" Sq - 11Ga | <input type="checkbox"/> SNTS-154-11/QSR/2480/PLED-III/* /RAL-8019/DBZ | <input type="checkbox"/> 347 | 68 | 7548 | 150W | 24 | |
| 15'0"- 4" Sq - 11Ga | <input type="checkbox"/> SNTS-154-11/QSR/2480/PLED-IV/* /RAL-8019/DBZ | <input type="checkbox"/> 480 | 68 | 7480 | 150W | 24 | |
| 20'0"- 4" Sq - 11Ga | <input type="checkbox"/> SNTS-204-11/QSR/4850/PLED-III/* /RAL-8019/DBZ | | 79 | 10349 | 250W | 48 | |
| 20'0"- 4" Sq - 11Ga | <input type="checkbox"/> SNTS-204-11/QSR/4850/PLED-IV/* /RAL-8019/DBZ | | 79 | 10270 | 250W | 48 | |
| 25'0"- 4" Sq - 11Ga | <input type="checkbox"/> SNTS-254-11/QSR/4810/PLED-III/* /RAL-8019/DBZ | | 160 | 18240 | 400W | 48 | |
| 25'0"- 4" Sq - 11Ga | <input type="checkbox"/> SNTS-254-11/QSR/4810/PLED-IV/* /RAL-8019/DBZ | | 160 | 18040 | 400W | 48 | |



6" SQUARE ALUMINUM BOLLARD

OSA6S

LED

CATALOG #:

TYPE:

PROJECT:

NOTES:

EXAMPLE

OSA6S - L20/830 - AC - FT - DBR - AB - OPTIONS - DIM - UNV

SERIES

LUMEN
PACKAGECRI &
CCT

SHIELDING

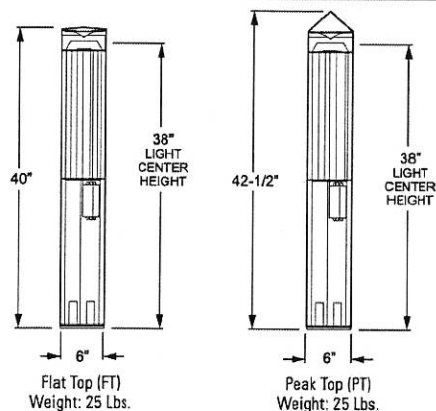
HOUSING
TOPFINISH
OPTIONSANCHOR
BOLTS

OPTIONS

DRIVER

VOLTAGE

CROSS SECTIONSS



FEATURES

- ▶ LEDs provide high-efficacy, good color rendering, a variety of color options, and 50,000 hours rated life (L70).
- ▶ Square aluminum bollard features a highly reflective bowl reflector with color-matched trim for effective light distribution and pleasing appearance day or night.
- ▶ Available with flat or peak top.
- ▶ Up to 2000-lumen module.
- ▶ 80 CRI minimum.
- ▶ 2700K, 3000K, 3500K, or 4000K.
- ▶ Finned, extruded aluminum heat sink for maximum heat dissipation.
- ▶ This fixture is proudly made in the USA.

ORDERING INFORMATION

SERIES

OSA6S 6" Square Aluminum Bollard

LED PACKAGE

Example: L20/830

| LUMEN PACKAGE | NOMINAL LUMENS | MINIMUM CRI & CCT | AVERAGE SYSTEM WATTAGE |
|---------------|----------------|---|------------------------|
| L11 | 1100 | 827 = 80 CRI, 2700K 830 = 80 CRI, 3000K 835 = 80 CRI, 3500K | 17 |
| L20 | 2000 | 840 = 80 CRI, 4000K | 27 |

Nominal lumens based on 3500K CCT, actual lumens may vary.

ANCHOR BOLTS

AB

Anchor bolts (Three 3/8" x 12" cast-in galvanized steel anchor J-bolts, shipped with fixture. Mounting template included.)

LAB

Less anchor bolts

PAB

Pre-shipped anchor bolts (Three 3/8" x 12" cast-in galvanized steel anchor J-bolts. Mounting template included.)

OPTIONS

SF

Single fuse (120V, 277V, or 347V only; must specify voltage)

DF

Double fuse (208V, 240V, or 480V only; must specify voltage)

DRIVER

DRV

Driver prewired for non-dimming applications

DIM

10% dimming driver prewired for 0-10V low voltage applications

VOLTAGE

120

120V

208

208V

240

240V

277

277V

UNV

120-277V

347

347V

480

480V

SHIELD/REFLECTOR

See back for shielding details.

AC

Acrylic lens with bowl reflector

HOUSING TOP

FT

Flat top

PT

Peak top

FINISH OPTIONS

BLK

Black (RAL #9004)

DBZ

Dark bronze

DBR

Medium bronze

GRAY

Standard gray

GRN

Green (RAL #6005)

SLV

Satin aluminum (RAL #9006)

WHT

White (RAL #9003)

RAL#

Specify custom color



OSA6S

6" SQUARE ALUMINUM BOLLARD

LED

SPECIFICATIONS

Housing – Fabricated aluminum, minimum .125" thick.

Housing Top – Formed aluminum, minimum .125" thick.

Reflector – Spun aluminum upper and lower reflectors with clear specular finish.

Shield – UV stabilized clear acrylic sealed with silicone. Type V distribution.

Electrical – High quality mid-power LED board. L70 at 50,000 hours. Prewired at factory for easy field installation. Rated -40°F minimum starting temperature.

Finish – Super durable polyester powder coat bonded to phosphate-free, multi-stage pretreated metal, meets and exceeds AAMA 2604 specifications for outdoor durability.

Mounting – Minimum 2" recessed in ground with four-point hot dip galvanized 1/4" A36 steel baseplate. For accurate installation a fullscale mounting template is provided with each bollard and anchor bolt order.

Labels – cETLus conforms to UL STD 1598 and UL STD 8750; Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for wet locations.

Warranty – 5-year limited warranty, see hew.com/warranty.

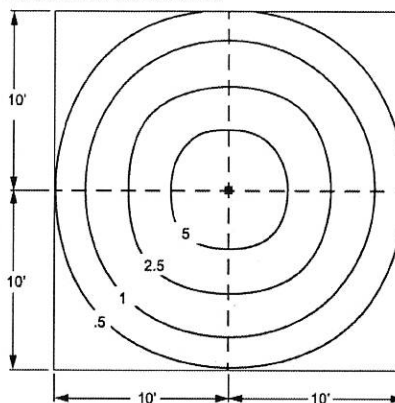
PHOTOMETRY

Catalog #: OSA6S-L20/830-AC-FT-WHT

TEST REPORT INFORMATION

- ▶ Test Report #: 100570727CHI-004
- ▶ Date: 09/12/12
- ▶ Lamp Type: LED
- ▶ Rated Lumens: 1039
- ▶ Watts: 27.5
- ▶ Lumens Per Watt: 37.8
- ▶ CRI: 84.6
- ▶ CCT: 3001K

FOOTCANDLE DISTRIBUTION



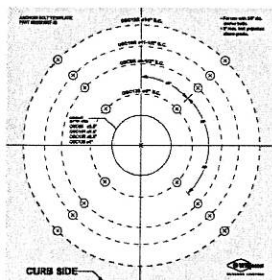
FIXTURE DETAILS

SHIELDING



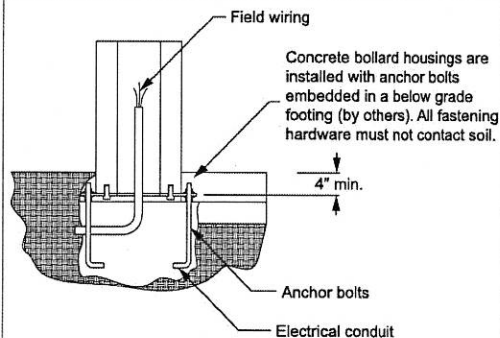
AC Shown

MOUNTING TEMPLATE



Mounting template is provided with each order. A pdf file (not to scale) of the mounting template is available at www.hew.com.

MOUNTING DETAILS



HSLED13B


Bullet shape die cast aluminum flood with spotlighting for over 40 feet away. 13 Watt LED High Performance Light Engine.

Color: Black

Weight: 3.5 lbs

Project:

Type:

Prepared By:

Date:

Driver Info

Type: Constant Current
 120V: 0.13A
 208V: 0.08A
 240V: 0.07A
 277V: 0.06A
 Input Watts: 15W
 Efficiency: 86%

LED Info

Watts: 13W
 Color Temp: 5100K (Cool)
 Color Accuracy: 67 CRI
 L70 Lifespan: 100,000
 Lumens: 787
 Efficacy: 52 LPW

Technical Specifications
Listings
UL Listing:

Suitable for wet locations. Suitable for ground mounting.

IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label.

LED Characteristics
Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

LEDs:

13 Watt high output, long-life LED.

Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

Color Stability:

LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for (SSL) Products, ANSI C78.377-2008.

Optical
Spotlight Distribution:

Beam Angle of 11° and Field Angle of 24° enables the HSLED to produce a very narrow spot distribution.

Lumen Maintenance:

100,000 hours Life Based on LM-80 Tests.

NEMA Type:

2H x 2V Beam Spread.

Electrical
Driver:

Constant Current, Class 2, 100-277V, 50-60Hz, 100-240VAC 0.3-0.15A, 277VAC 0.15A.

Surge Protection:

4kV

Construction
Ambient Temperature:

Suitable for use in 40°C ambient temperatures.

Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C.

Thermal Management:

Cast aluminum patent pending Thermal Management system for optimal heat sinking. The HSLED is designed for cool operation, most efficient output and maximum LED life by minimizing LED junction temperature.

Housing:

Precision die-cast aluminum housing, hood and mounting arm.

Gaskets:

High Temperature Silicone.

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Green Technology:

Mercury and UV free, and RoHS compliant.

Other
Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

California Title 24:

HSLED13 complies with 2013 California Title 24 building and electrical codes as a commercial outdoor non-pole-mounted fixture < 30 Watts when used with a photosensor control. Select catalog number PCS900(120V) or PCS900/277 to order a photosensor.

Patents:

The design of the HSLED is protected by Taiwan Patent 01510965 and patents pending in US, Canada, China, and Mexico.

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.