

SOLID STATE AREA LIGHTING

RAZAR-PT1 SERIES-PLED

S P E C I F I C A T I O N S

OPTICAL/ELECTRICAL 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".

SINGLE ARM POSTTOP MOUNTING

A single, heavy wall cast aluminum arm (A356 alloy, <0.2% copper) connects the Optical/Electrical Housing to the slip fitter hub. Arm is triangular in cross-section transitioning from the apex facing to the pole centerline at the hub to the apex facing outward at the fixture body. Field wiring is accessed through a cover at the mounting hub. Tenon maximum $2\frac{7}{8}"$ diameter x $3\frac{1}{2}"$ height. All exposed hardware is stainless steel.

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 to meet an IP66 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. 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.)

AMBER LED's

PCA (Phosphor Converted Amber) LED's utilize phosphors to create color output similar to LPS lamps and have a slight output in the blue spectral bandwidth. **TRA** (True Amber) LED's utilize material that emits light in the amber spectral bandwidth only without the use of phosphors.

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.

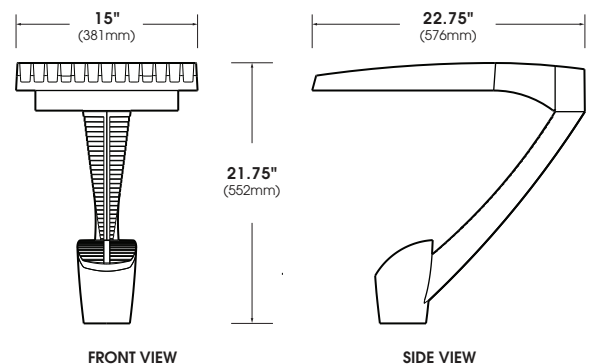
PROJECT NAME: _____

FIXTURE TYPE: _____



RZR-PT1 PLED

PATENT PENDING



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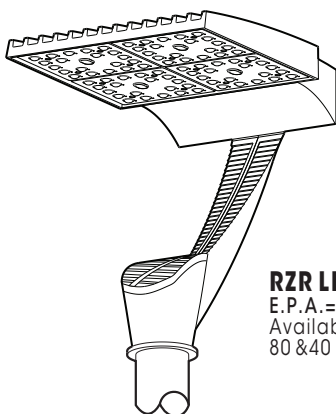
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RZR- PT1 SERIES - PLED

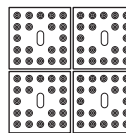
S P E C I F I C A T I O N S

PLED™ MODULES

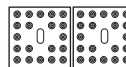


RZR LED POST TOP

E.P.A.= 1.13
Available in:
80 & 40 LED Array



80 LED Array



40 LED Array

Approximate Average Lumens – 4000K

(Lumens median of all distributions)

| | 350mA | | | 525mA | | | 700mA | | | 1050mA | | |
|-----------|-------|--------|---------|-------|--------|---------|-------|--------|---------|--------|--------|---------|
| | Watts | Lumens | HID Eq. | Watts | Lumens | HID Eq. | Watts | Lumens | HID Eq. | Watts | Lumens | HID Eq. |
| 40 | 45 | 5997 | 70-100 | 66 | 8653 | 100-150 | 87 | 10995 | 175 | 134 | 14647 | 200-250 |
| 80 | 87 | 11622 | 175-200 | 131 | 16736 | 200-250 | 174 | 21235 | 400 | N/A | N/A | N/A |

Spec/Order Example: RZR-PT1-LED/PLED-V-SQ/80LED-700mA/NW/277/RAL9005

S P E C / O R D E R I N G I N F O R M A T I O N

| MODEL | OPTICS | LED MODE | | | VOLTAGE | FINISH | OPTIONS |
|---|--|--|---|---|--|---|--|
| MODEL | OPTICS | NO. LEDs | DRIVE CURRENT | COLOR TEMP - CCT | VOLTAGE | FINISH | OPTIONS |
| <input type="checkbox"/> RZR-PT1 | <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-M <input type="checkbox"/> TYPE III PLED-III-W <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 | <input type="checkbox"/> 80LED <input type="checkbox"/> 40LED | <input type="checkbox"/> 350mA <input type="checkbox"/> 525mA <input type="checkbox"/> 700mA ¹ <input type="checkbox"/> 1050mA ¹ (40LED ONLY) | <input type="checkbox"/> NW (4000K)* *STANDARD <input type="checkbox"/> CW (5000K) <input type="checkbox"/> WW (3000K) CONSULT FACTORY FOR OTHER LED COLORS <input type="checkbox"/> AMBER ² <input type="checkbox"/> PHOSPHOR CONVERTED AMBER PCA <input type="checkbox"/> TRUE AMBER ³ TRA | <input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480 | STANDARD TEXTURED FINISH <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) CONSULT FACTORY FOR CUSTOM 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 |
| <p>NOTES: 1 - 700mA and 1050mA NOT FOR USE WITH TRA LED'S 2 - NARROW BAND AMBERS HAVE NO DEFINABLE CCT EQUIVALENT 3 - AVAILABLE IN 350mA & 525mA DRIVE CURRENTS ONLY</p> | | | | | | | |



RZR- PT1 SERIES - PLED

LED/ELECTRICAL GUIDE

| LED COUNT | SOURCE TYPE | SOURCE | INITIAL LUMENS - 4000K CCT | INITIAL LUMENS - 3000K CCT | INITIAL LUMENS - 5000K CCT | L70 GREATER THAN (HR) | STARTING TEMP. | SYSTEM WATTS | VOLTS | MAX INPUT AMPS |
|-----------|-------------|---------------------------------|----------------------------|----------------------------|----------------------------|-----------------------|----------------|--------------|------------|----------------|
| 40 | LED | 40 PLED Optical Module - 350mA | 5,585 - 6,408 | 5,306 - 6,088 | 5,864 - 6,729 | 60,000+ | -20°F | 45 | 120 277 | 0.38 0.17 |
| 40 | LED | 40 PLED Optical Module - 525mA | 8,059 - 9,246 | 7,656 - 8,784 | 8,462 - 9,709 | 60,000+ | -20°F | 66 | 120 277 | 0.55 0.24 |
| 40 | LED | 40 PLED Optical Module - 700mA | 10,240 - 11,749 | 9,728 - 11,162 | 10,752 - 12,337 | 60,000+ | -20°F | 87 | 120 277 | 0.73 0.32 |
| 40 | LED | 40 PLED Optical Module - 1050mA | 13,642 - 15,652 | 12,960 - 14,870 | 14,324 - 16,435 | 60,000+ | -20°F | 134 | 120 277 | 1.12 0.49 |
| 80 | LED | 80 PLED Optical Module - 350mA | 10,824 - 12,419 | 10,283 - 11,798 | 11,365 - 13,040 | 60,000+ | -20°F | 87 | 120 277 | 0.75 0.33 |
| 80 | LED | 80 PLED Optical Module - 525mA | 15,587 - 17,884 | 14,808 - 16,990 | 16,366 - 18,778 | 60,000+ | -20°F | 131 | 120 277 | 1.10 0.48 |
| 80 | LED | 80 PLED Optical Module - 700mA | 19,767 - 22,680 | 18,779 - 21,546 | 20,755 - 23,814 | 60,000+ | -20°F | 174 | 120 277 | 1.45 0.63 |

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 surge suppressor supplied with luminaire.
Note: Surge suppressors are considered a perishable device.
5. L70(10K) - 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.

