PROJECT NAME:

FIXTURE TYPE:

SOLID STATE AREA LIGHTING

RAZAR-PT1 SERIES-PLED

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

RZR-PT1 PLED

PATENT PENDING

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 <± .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 POST TOP 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 27/8" diameter x 31/2" 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. LED optics completely seal each individual emitter to meet an IP66 rating. 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

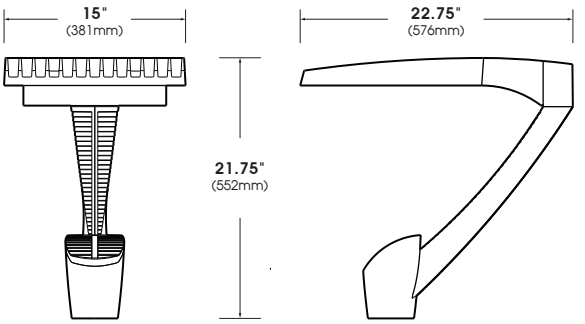
Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal 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. Luminaire supplied with 20KV surge protector for field accessible installation.)

AMBER LED's

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.



FRONT VIEW

SIDE VIEW

c UL us LISTED

MADE IN THE USA

2022054

U.S. Architectural Lighting

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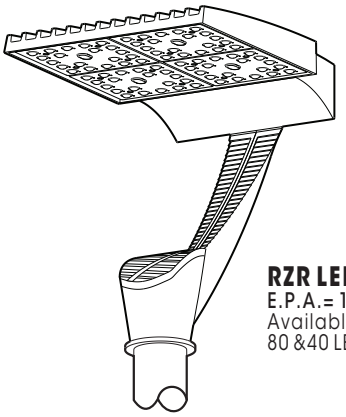
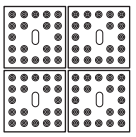
RZR- PT1 SERIES - PLED

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

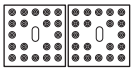
PLED™ MODULES



RZR LED POST TOP1
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

☐ RZR-PT1

OPTICS

☐ TYPE II **PLED-II** . . . . . .
☐ TYPE II FRONT ROW **PLED-II-FR** . . . . .
☐ TYPE II MEDIAN ILLUMINATOR **PLED-II-ML** . . . . .
☐ TYPE III **PLED-III-M** . . . . .
☐ TYPE III **PLED-III-W** . . . . .
☐ TYPE IV **PLED-IV** . . . . . .
☐ TYPE IV **PLED-IV-FT** . . . . .
☐ TYPE V NARROW **PLED-V-SQ-N** . . .
☐ TYPE V **PLED-V-SQ-M** . .
☐ TYPE V **PLED-V-SQ-W** . .

LED MODE

NO. LEDs
☐ 80LED
☐ 40LED

DRIVE CURRENT
☐ 350mA
☐ 525mA
☐ 700mA[1]
☐ 1050mA[1] (40LED ONLY)

COLOR TEMP - CCT
☐ NW (4000K)* *STANDARD
☐ CW (5000K)
☐ WW (3000K)

CONSULT FACTORY FOR OTHER LED COLORS

AMBER[2]
☐ TRUE AMBER[3] **TRA**

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

VOLTAGE

☐ 120
☐ 208
☐ 240
☐ 277
☐ 347
☐ 480

FINISH

STANDARD TEXTURED FINISH
☐ BLACK **RAL-9005-T**
☐ WHITE **RAL-9003-T**
☐ GREY **RAL-7004-T**
☐ DARK BRONZE **RAL-8019-T**
☐ GREEN **RAL-6005-T**

FOR SMOOTH FINISH REPLACE SUFFIX "T" WITH SUFFIX "S" (EXAMPLE: RAL-9005-S)

CONSULT FACTORY FOR CUSTOM COLORS

OPTIONS

☐ HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NONINTEGRATED MOTION SENSOR . . . . . **HLSW**
☐ INTERNAL HOUSE SIDE SHIELD . . . **HS-PLED**
☐ PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) . . **PC+V**
☐ TWIST LOCK RECEPTACLE ONLY . . . **TPR**
☐ 7-PIN TWIST LOCK RECEPTACLE ONLY . . . **TPR7**
☐ SINGLE FUSE (120V, 277V, 347V) . . **SF**
☐ DOUBLE FUSE (208V, 240V, 480V) . . **DF**
☐ BLUE-TOOTH PROGRAMMABLE PHOTO/MOTION SENSOR (FACTORY - MOTION 50/100; PHOTO 75fc **MS-F311**

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U.S. ARCHITECTURAL LIGHTING

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.

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