



PHOTOMETRIC PLAN
 Current View

SOLID STATE AREA LIGHTING
RAZAR SERIES-LED
 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 = ±.002) 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 fins 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 wing compartment cover.

LED 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 reflector. In symmetric distributions, a micro-reflector inside the reflector re-directs the house side emitter output towards the street side and functions as a house side shielding element. Reflectors are injection molded H12 acrylic. Each LED reflector is sealed to the PCB over an emitter and all reflectors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED reflectors 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. 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 2kV internal surge protection. Luminaire supplied with 20kV surge protector for field accessible installation.)

LED EMITTERS:
 High output LED's are utilized with drive currents ranging from 350mA to 1000mA. 7000K Minimum. LED's are available in Standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult factory for other LED options.

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

MAST ARM FITTER/ELECTRICAL HOUSING:
 Replaces standard Electrical Housing. Fits standard 2 3/8" O.D. horizontal tenon. Two (2) straps with two (2) bolts each encircle the lower half of the tenon. Upper half of the tenon rests on self-centering steps that position the angle of the luminaire at 0°, +1.5°, +1.5 or +3° up from the horizontal. All hardware is stainless steel.

PROJECT NAME: _____
 PROJECT TYPE: _____

RAZAR
 (MODELS: RZR-M, RZR-G & RZR-MAF*)

FIXTURE	A	B	C	D
RZR-G	14"	34.5"	3"	3"
RZR	14.5"	34.5"	2.75"	4.5"
RZR-M	11.5"	22"	2.4"	5.8"
RZR-MAF	11"	19.5"	2.4"	4"

*ULC PENDING AS OF 7/17

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Note

1. FIXTURE HEIGHT = 23'
2. POLE SPACING = 75'

RATIO = 3:1 MAX AS REQUIRED

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
GENERAL SITE	+	1.12 fc	4.86 fc	0.00 fc	N/A	N/A
LIGHT TRESPASS	X	0.04 fc	0.18 fc	0.00 fc	N/A	N/A
PARKING AREA	X	2.60 fc	4.86 fc	0.49 fc	9.9:1	5.3:1

RAZAR SERIES-LED

SPECIFICATIONS

POLE DRILLING TEMPLATE

PLED MODULES

Approximate Average Lumens = 4000K
 (Lumens per Module - See Distribution)

350mA	525mA	700mA	1000mA							
Width	Lumens	HD Eq.	Width	Lumens	HD Eq.	Width	Lumens	HD Eq.		
24	28	3541	50	41	5038	53	6567	100	81	8773
40	45	5977	50	56	6663	87	10565	175	134	14627
48	55	7045	100	61	7328	100	12000	200	180	17556
60	67	8122	150	131	14378	114	21228	400	286	28190
120	137	11655	300	195	20860	200	31952	525	396	43353

Spec/Order Example: RZR/PLED-IV/80LED-700mA/CW/277/RAL-8019-6/10P

MODEL	OPTICS	LED MODE	VOLTAGE	FINISH	OPTIONS
<input type="checkbox"/> RZR-G	<input type="checkbox"/> TYPE I PLED-II	<input type="checkbox"/> 120LED	<input type="checkbox"/> 350mA	<input type="checkbox"/> BLACK RAL-9005T	<input type="checkbox"/> HIGHLOW DIMMING FOR UNDIMMED DIMMING OR NONDIMMED DIMMING SENSOR
<input type="checkbox"/> RZR-MAF	<input type="checkbox"/> TYPE II WIDE PLED-II-W	<input type="checkbox"/> 40LED	<input type="checkbox"/> 525mA	<input type="checkbox"/> WHITE RAL-9001	<input type="checkbox"/> INTERNAL PHOTO-CELL + VOLTAGE (EXAMPLE: PC120V) - PC-V
<input type="checkbox"/> RZR-M	<input type="checkbox"/> TYPE IV PLED-IV	<input type="checkbox"/> 24LED	<input type="checkbox"/> 700mA	<input type="checkbox"/> DARK BRONZE RAL-8019-1	<input type="checkbox"/> PHOTO-CELL + VOLTAGE (EXAMPLE: PC120V) - PC-V
<input type="checkbox"/> RZR-MAF	<input type="checkbox"/> TYPE V WIDE PLED-V-W	<input type="checkbox"/> 48LED	<input type="checkbox"/> 1000mA	<input type="checkbox"/> GREEN RAL-6005-1	<input type="checkbox"/> PHOTO-CELL + VOLTAGE (EXAMPLE: PC120V) - PC-V
<input type="checkbox"/> RZR-M	<input type="checkbox"/> TYPE VI WIDE PLED-VI-W	<input type="checkbox"/> 48LED	<input type="checkbox"/> 1000mA	<input type="checkbox"/> GREEN RAL-6005-1	<input type="checkbox"/> PHOTO-CELL + VOLTAGE (EXAMPLE: PC120V) - PC-V

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