

NOTE:  
PRE-CURFEW DESIGN HOURS SHALL BE DESIGNED AS DUSK TO 10:00PM  
AND POST-CURFEW DESIGN HOURS SHALL BE DEFINED AS 10:00PM UNTIL  
DAWN. ALL EXTERIOR LIGHTS SHALL BE DIMMED BY 35% DURING  
POST-CURFEW TO COMPLY WITH IECG 2018 C405.2.6. EXTERIOR LIGHTING  
CONTROLS.

## ELECTRICAL POST CURFEW PHOTOMETRIC PLAN

SCALE: 1" = 30'-0"



Luminaire Schedule		Symbol	Manufacturer	Description	Mtg. Height	LLF	Lumens	Watts	Total Watts
Qty	Label								
9	SW		U.S. ARCHITECTURAL LIGHTING	RZR-WM3-PLD-IV-FT-60LED-1050MA-NW	25'	0.650	19691	192.3	1730.7
Calculation Summary									
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min		
Site Planar	Illuminance	Fc	0.72	3.6	0.0	N/A	N/A		

## SOLID STATE AREA LIGHTING

## RAZAR WALLMOUNT-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 < .003") to facilitate thermal transfer of heat to housing and cooling fins. The Optical Housing bolts to the Electrical Housing forming a unified assembly. The minimum wall thickness is .188".

**ELECTRICAL HOUSING**  
Heavy cast low copper aluminum (A356 alloy, <0.2% copper) assembly. Minimum wall thickness is .188". Fixture Mounting Plate affixes to mounting surface over a recessed J-box. Electrical Housing anchors on the top edge of the Mounting Plate and stainless steel recessed socket head screws tighten the Electrical Housing to the Mounting Plate from the bottom.

**PLED® OPTICAL MODULES**  
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. The asymmetric distributions, have a micro-reflector inside the refractor which re-directs the house side emitter output towards the steel 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 I, III, and Type IV side/area distributions as well as other specially asymmetric distributions. Panels are field replaceable and field rotatable in 90° increments.

**LED DRIVER(S)**  
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.)

**LED EMITTERS**  
High output LED's are utilized with drive currents ranging from 350mA to 1050mA. 70CRI 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.

**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 media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

PROJECT NAME:

PROJECT TYPE:

FIXTURE	A	B	C
RZR-W1-EM	8.75"	12"	6"
RZR-W1-EM	11"	14"	8.5"

RZR-WM1

PATENT PENDING

FIXTURE	A	B	C
RZR-W2	18"	12"	6"
RZR-W2-EM	18"	14"	6.5"

RZR-WM2

PATENT PENDING

FIXTURE	A	B	C
RZR-W3	22"	12"	6"
RZR-W3-EM	22"	14"	6.5"

RZR-WM3

PATENT PENDING

2019093

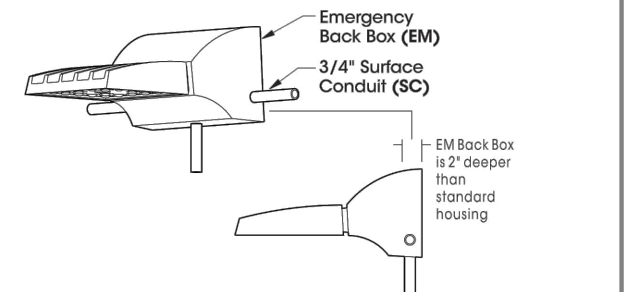
U.S. Architectural Lighting

U.S. ARCHITECTURAL LIGHTING

## RAZAR WALLMOUNT SERIES-LED

### SPECIFICATIONS

#### EMERGENCY OPTION

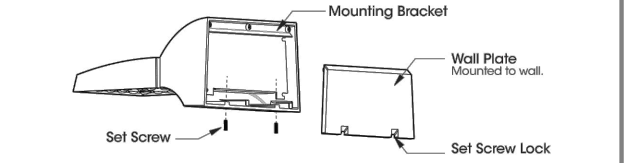


THE EMERGENCY OPTION BACK BOX EXTENDS 2" BEYOND THE STANDARD HOUSING AND CONTAINS THE EMERGENCY COMPONENTS INCLUDING BATTERIES OR CAPACITORS. FOR SURFACE CONDUIT (SC) APPLICATIONS THERE MUST BE AN SC1, SC2 AND SC3 OPTION FOR THE EMERGENCY HOUSING. SEE SC SHIMS WITH THERMO-ADHESIVE COOL FUSE.







WM1 = 400mA @ 350MA  
WM2 = 350mA @ 350MA  
WM3 = 350mA @ 350MA

\*MULTIPLY THIS ABOVE BY THE LUMEN OUTPUT @ 350MA

#### WALL MOUNTING



Size/Order Example: RZR-WM2/PLED-IV/40LED-700mA/CW/277/RAL-80195/SF

SPEC / ORDERING		INFORMATION			
MODEL	OPTICS	LED MODE	VOLTAGE	FINISH	OPTIONS
RZR-WM1	PLED-II DISTRIBUTION TYPE TYPE II PLED-II  TYPE II FRONT ROW PLED-II-FR 	NO. LED'S RZR-WM1 20LED	DRIVE CURRENT 350mA 525mA 700mA <sup>1</sup> 1050mA <sup>2</sup>	COLOR TEMP.: CCT 2700K (AKO) <sup>3</sup> 5000K (AAK) <sup>4</sup> CW (5000K) WW (3000K)	STANDARD TEXTURED FINISH RAL-9005-T WHITE RAL-9003-T
		40LED	350mA	120 208 347 480	BLACK RAL-9005-T WHITE RAL-9003-T
		40LED	350mA	277 347 480	GRY RAL-7004-T <sup>5</sup> DARK BRONZE RAL-8010-T <sup>6</sup>
		40LED	350mA	347 480	GRY RAL-7004-T <sup>5</sup> DARK BRONZE RAL-8010-T <sup>6</sup>
RZR-WM2	TYPE III PLED-III  TYPE III WIDE PLED-III-W 	NO. LED'S RZR-WM2 40LED	DRIVE CURRENT 350mA	COLOR TEMP.: CCT 2700K (AKO) <sup>3</sup> 5000K (AAK) <sup>4</sup> CW (5000K) WW (300K)	STANDARD TEXTURED FINISH RAL-9005-T WHITE RAL-9003-T
		40LED	350mA	120 208 347 480	BLACK RAL-9005-T WHITE RAL-9003-T
		40LED	350mA	277 347 480	GRY RAL-7004-T <sup>5</sup> DARK BRONZE RAL-8010-T <sup>6</sup>
		40LED	350mA	347 480	GRY RAL-7004-T <sup>5</sup> DARK BRONZE RAL-8010-T <sup>6</sup>
RZR-WM3	TYPE IV PLED-IV  TYPE IV-LT PLED-IV-LT 	NO. LED'S RZR-WM3 60LED	DRIVE CURRENT 350mA	COLOR TEMP.: CCT 2700K (AKO) <sup>3</sup> 5000K (AAK) <sup>4</sup> CW (5000K) WW (300K)	STANDARD TEXTURED FINISH RAL-9005-T WHITE RAL-9003-T
		60LED	350mA	120 208 347 480	BLACK RAL-9005-T WHITE RAL-9003-T
		60LED	350mA	277 347 480	GRY RAL-7004-T <sup>5</sup> DARK BRONZE RAL-8010-T <sup>6</sup>
		60LED	350mA	347 480	GRY RAL-7004-T <sup>5</sup> DARK BRONZE RAL-8010-T <sup>6</sup>
MAX INPUT WATTAGE					
# OF LED'S 350MA 350MA 700MA 1050MA					
40 200 400 600					
20 100 200 300					
10 50 100 150					
5 25 50 75					
2 10 20 30					
1 5 10 15					
0.5 2.5 5 7.5					
0.2 1 2 3					
0.1 0.5 1 1.5					
0.05 0.25 0.5 0.75					
0.02 0.1 0.2 0.3					
0.01 0.05 0.1 0.15					
0.005 0.025 0.05 0.075					
0.002 0.01 0.02 0.03					
0.001 0.005 0.01 0.015					
0.0005 0.0025 0.005 0.0075					
0.0002 0.001 0.002 0.003					
0.0001 0.0005 0.001 0.0015					
0.00005 0.00025 0.0005 0.00075					
0.00002 0.0001 0.0002 0.0003					
0.00001 0.00005 0.0001 0.00015					
0.000005 0.000025 0.00005 0.000075					
0.000002 0.00001 0.00002 0.00003					
0.000001 0.000005 0.00001 0.000015					
0.0000005 0.0000025 0.000005 0.0000075					
0.0000002 0.000001 0.000002 0.000003					
0.0000001 0.0000005 0.000001 0.0000015					
0.00000005 0.00000025 0.0000005 0.00000075					
0.00000002 0.0000001 0.0000002 0.0000003					
0.00000001 0.00000005 0.0000001 0.00000015					
0.000000005 0.000000025 0.00000005 0.000000075					
0.000000002 0.00000001 0.00000002 0.00000003					
0.000000001 0.000000005 0.00000001 0.000000015					
0.0000000005 0.0000000025 0.000000005 0.0000000075					
0.0000000002 0.000000001 0.000000002 0.000000003					
0.0000000001 0.0000000005 0.000000001 0.0000000015					
0.00000000005 0.00000000025 0.00000000005 0.000000000075					
0.00000000002 0.00000000001 0.00000000002 0.00000000003					
0.000000000005 0.0000000000025 0.0000000000005 0.00000000000075					
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0.00000000000000002 0.00000000000000001 0.00000000000000002 0.00000000000000003					
0.000000000000000005 0.0000000000000000025 0.0000000000000000005 0.00000000000000000075					
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0.00000000000000000000000005 0.000000000000000000000000025 0.000000000000000000000000005 0.0000000000000000000000000075					
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0.000000000000000000000000001 0.0000000000000000000000000005 0.000000000000000000000000001 0.0000000000000000000000000015					
0.0000000000000000000000000005 0.00000000000000000000000000025 0.00000000000000000000000000005 0.000000000000000000000000000075					
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0.000000000000000000000000000000002 0.000000000000000000000000000000001 0.000000000000000000000000000000002 0.000000000000000000000000000000003					
0.0000000000000000000000000000000005 0.00000000000000000000000000000000025 0.00000000000000000000000000000000005 0.000000000000000000000000000000000075					
0.00000000000000000000000000000000002 0.00000000000000000000000000000000001 0.00000000000000000000000000000000002 0.00000000000000000000000000000000003					
0.000000000000000000000000000000000005 0.0000000000000000000000000000000000025 0.0000000000000000000000000000000000005 0.00000000000000000000000000000000000075					
0.0000000000000000000000000000000000002 0.0000000000000000000000000000000000001 0.0000000000000000000000000000000000002 0.0000000000000000000000000000000000003					
0.00000000000000000000000000000000000005 0.000000000000000000000000000000000000025 0.000000000000000000000000000000000000005 0.0000000000000000000000000000000000000075					
0.000000000000000000000000000000000000002 0.000000000000000000000000000000000000001 0.000000000000000000000000000000000000002 0.000000000000000000000000000000000000003					
0.0000000000000000000000000000000000000005 0.00000000000000000000000000000000000000025 0.005 0.0075					
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0.0005 0.00025 0.005 0.0075					
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0.002 0.001 0.002 0.0003					
0.0005 0.00025 0.005 0.00075					
0.002 0.001 0.002 0.0003					
0.0005 0.0025 0.005 0.00075					
0.002 0.001 0.002 0.0003					
0.0005 0.00025 0.0005 0.00075					
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0.0005 0.00025 0.0005 0.00075					
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0.005 0.0025 0.0005 0.00075					
0.0002 0.0001 0.00					