

SOLID STATE AREA LIGHTING

VALULUME SERIES-PLED

SPECIFICATIONS

PROJECT NAME: _____
FIXTURE TYPE: SA, SB, SC, SD, SE, SF



VLL PLED PATENT PENDING

OPTICAL HOUSING
 Heavy cast low copper aluminum (A356 alloy; $\pm 0.2\%$ copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance $\leq .003''$ over

ELECTRICAL HOUSING w/ INTEGRATED ARM
 Heavy cast low copper aluminum (A356 alloy; $\pm 0.2\%$ 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 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. 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 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 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 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.

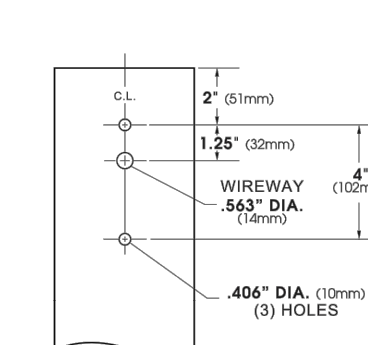
FINISH
 Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

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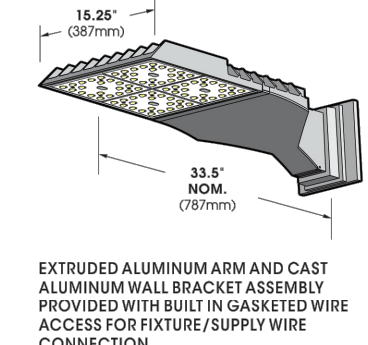
VALULUME SERIES - PLED

SPECIFICATIONS

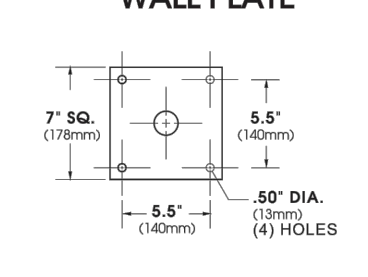
POLE DRILLING TEMPLATE



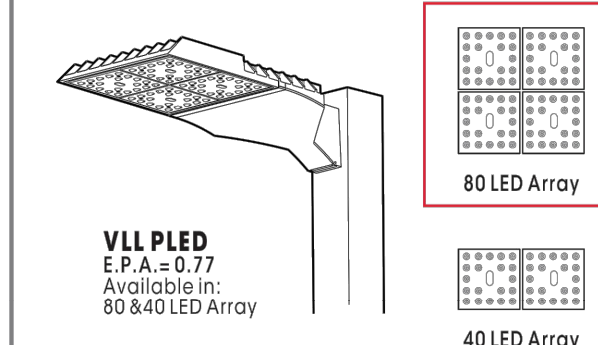
WALL MOUNT



WALL PLATE



PLED MODULES



VLL PLED
 E.P.A. = 0.77
 Available in 80 & 40 LED Array

No. of LEDs	Drive Current	System Watts	HID Equivalent
40	350mA	45	70 - 100
	525mA	66	100 - 150
	700mA	91	175
	1050mA	142	200 - 250
80	350mA	92	150 - 175
	525mA	136	200 - 250
	700mA	184	400
	1050mA	265	450

Spec/Order Example: VLL-LED/PLED-V-SQ/80LED-700mA/NW/277/1/RAI9005

MODEL	OPTICS	LED	MOUNTING	FINISH	OPTIONS		
<input type="checkbox"/> VLL-LED	PLED DISTRIBUTION <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-MIL <input type="checkbox"/> TYPE III PLED-III <input type="checkbox"/> TYPE III WIDE 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 MED. PLED-V-SQ-M <input type="checkbox"/> TYPE V WIDE PLED-V-SQ-W	No. LEDs <input type="checkbox"/> 20LED <input type="checkbox"/> 40LED <input type="checkbox"/> 80LED <input type="checkbox"/> 1050mA <input type="checkbox"/> 700mA <input type="checkbox"/> 525mA <input type="checkbox"/> 350mA	DRIVE CURRENT <input type="checkbox"/> NW (4000K) STANDARD <input type="checkbox"/> CW (5000K) <input type="checkbox"/> WW (3000K) OTHER LED COLORS AVAILABLE CONSULT FACTORY	VOLTAGE <input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480	ARM MOUNT <input type="checkbox"/> 1 <input type="checkbox"/> 2-180 <input type="checkbox"/> 2-90 <input type="checkbox"/> 3-120 <input type="checkbox"/> 3-90 <input type="checkbox"/> 4-90 <input type="checkbox"/> UNIVERSAL POLE ADAPTOR - IUPA <input type="checkbox"/> WM	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 BRONZE FINISH REFLECTOR SURF. WITH BRONZE TRIM (EXAMPLE: RAL-9005-T) <input type="checkbox"/> SEE QUALITY.COM FOR ADDITIONAL COLORS	<input type="checkbox"/> HIGH-LOW DIMMING FOR HAZARDOUS SWITCHING OR NON-INTEGRATED MOTION SENSOR... HLEW <input type="checkbox"/> INTERNAL HOUSE SIDE SHIELD... HS-PLED SA, SB, SE, SF <input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V)... PC-V <input type="checkbox"/> TWIST LOCK RECEPTACLE ONLY... TPR <input type="checkbox"/> 7-FM TWIST LOCK RECEPTACLE ONLY... 7PPT <input type="checkbox"/> SINGLE FUSE (120V, 277V, 347V)... SF <input type="checkbox"/> DOUBLE FUSE (208V, 240V, 480V)... DF <input type="checkbox"/> BLUE-TOOTH PROGRAMMABLE PHOTO MOTION SENSOR (FACTORY - MACHON 50100; PHOTO 785)... MS-F311

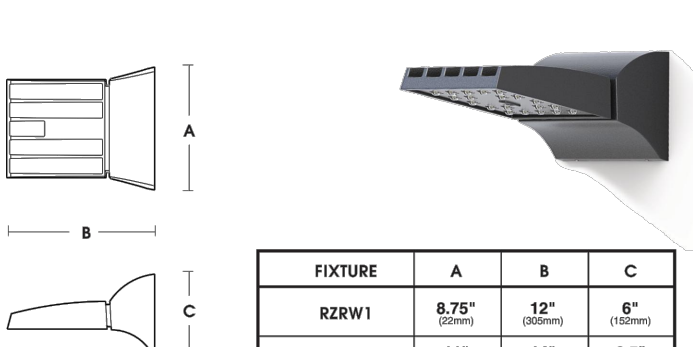
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SOLID STATE AREA LIGHTING

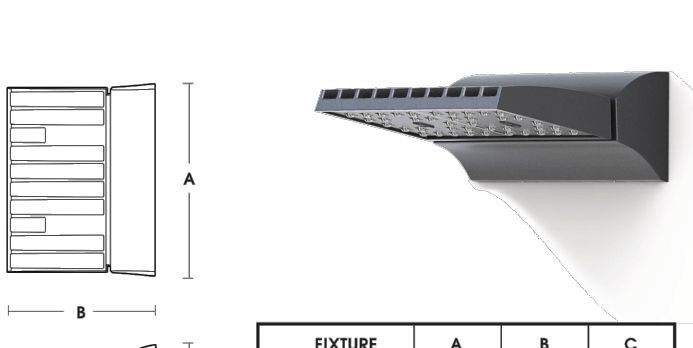
RAZAR WALLMOUNT-LED

SPECIFICATIONS

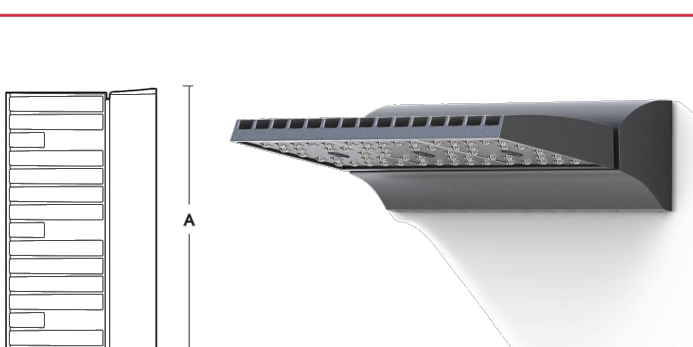
PROJECT NAME: _____
PROJECT TYPE: SW



RZR-WM1 PATENT PENDING



RZR-WM2 PATENT PENDING



RZR-WM3 PATENT PENDING

OPTICAL HOUSING
 Heavy cast low copper aluminum (A356 alloy; $\pm 0.2\%$ copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance $\leq .003''$) 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; $\pm 0.2\%$ 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 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 II, III, and Type IV site/area distributions as well as other specialty 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 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 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.

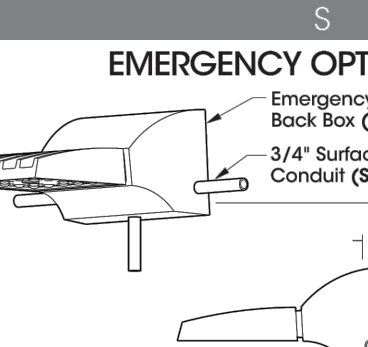
FINISH
 Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

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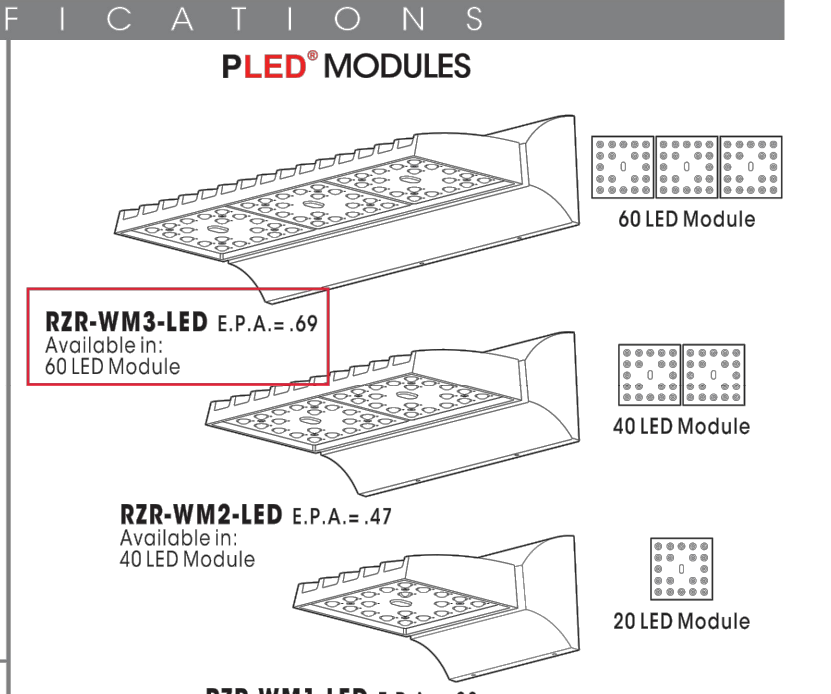
RAZAR WALLMOUNT SERIES-LED

SPECIFICATIONS

EMERGENCY OPTION



PLED MODULES

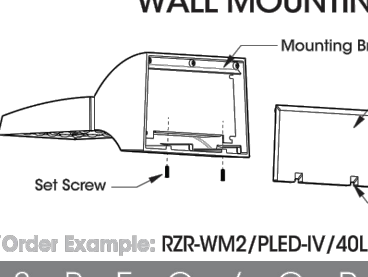


RZR-WM3-LED E.P.A. = .69
 Available in 60 LED Module

RZR-WM2-LED E.P.A. = .47
 Available in 40 LED Module

RZR-WM1-LED E.P.A. = .33
 Available in 20 LED Module

WALL MOUNTING



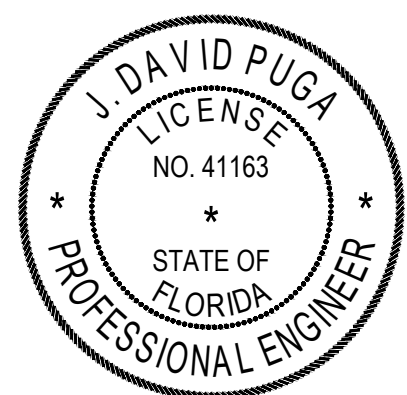
MAX INPUT WATTAGE

# OF LED'S	350mA	525mA	700mA	1050mA
20	45W	66W	91W	136W
40	89W	132W	182W	272W
60	134W	198W	273W	408W

Spec/Order Example: RZR-WM2/PLED-IV/40LED-700mA/CW/277/RAI-8019-S/SF

MODEL	OPTICS	LED MODE	VOLTAGE	FINISH	OPTIONS	
<input type="checkbox"/> RZR-WM1	PLED DISTRIBUTION TYPE <input type="checkbox"/> TYPE II PLED-II <input type="checkbox"/> TYPE II FRONT ROW PLED-II-FR <input type="checkbox"/> TYPE II WIDE PLED-II-W <input type="checkbox"/> TYPE III PLED-III <input type="checkbox"/> TYPE III WIDE PLED-III-W <input type="checkbox"/> TYPE IV PLED-IV <input type="checkbox"/> TYPE IV FT PLED-IV-FT	No. LEDs <input type="checkbox"/> 20LED <input type="checkbox"/> 40LED <input type="checkbox"/> 60LED DRIVE CURRENT <input type="checkbox"/> 350mA <input type="checkbox"/> 525mA <input type="checkbox"/> 700mA <input type="checkbox"/> 1050mA	COLOR TEMP - CCT <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"/> 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 BRONZE FINISH REFLECTOR SURF. WITH BRONZE TRIM (EXAMPLE: RAL-9005-T) <input type="checkbox"/> SEE QUALITY.COM FOR ADDITIONAL COLORS	<input type="checkbox"/> HIGH-LOW DIMMING FOR EXTERNAL CONTROL... HLEW <input type="checkbox"/> HOUSE SIDE SHIELDING... HS-PLED <input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V)... PC-V <input type="checkbox"/> SINGLE FUSE (120V & 277V)... SF <input type="checkbox"/> DOUBLE FUSE (208V & 240V)... DF <input type="checkbox"/> STEP DM MOTION SENSOR (PROGRAMMED 50/100)... MS-F211 <input type="checkbox"/> REMOTE MOTION SENSOR CONFIGURATOR... MS-F310 <input type="checkbox"/> EMERGENCY BACKUP 1 (HOUSING ONLY)... EMH1 <input type="checkbox"/> EMERGENCY BACKUP 2... EMH2 <input type="checkbox"/> EMERGENCY BACKUP 3... EMH3 <input type="checkbox"/> SURFACE CONDUIT 1... SC1 <input type="checkbox"/> SURFACE CONDUIT 2... SC2 <input type="checkbox"/> SURFACE CONDUIT 3... SC3

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ELECTRICAL DETAILS
 SCALE: N.T.S.

