

SOLID STATE AREA LIGHTING

VALULUME SERIES-PLED

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

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 $<\pm .003"$ over 12") 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 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 cover 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. 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 . 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.

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.

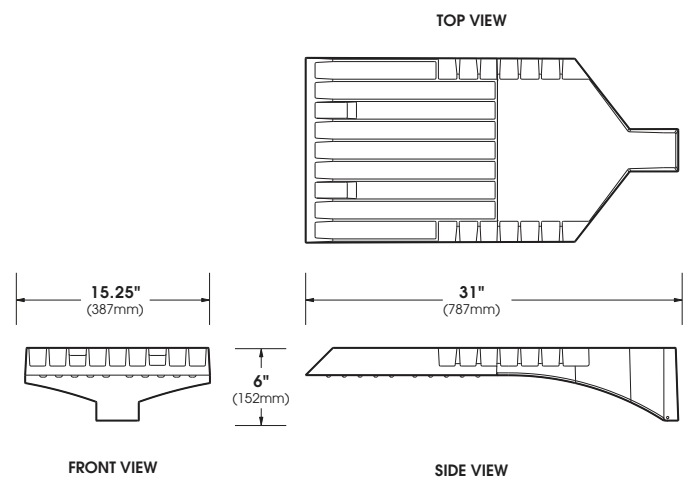
PROJECT NAME: _____

FIXTURE TYPE: _____



VLL PLED

PATENT PENDING

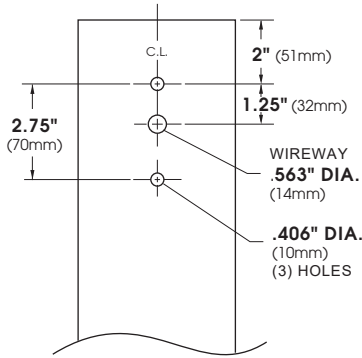


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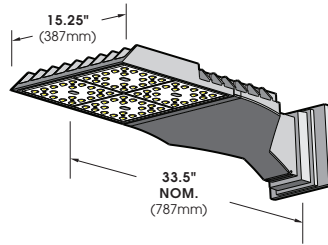
VALULUME SERIES - PLED

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

POLE DRILLING TEMPLATE

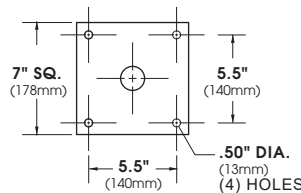


WALL MOUNT

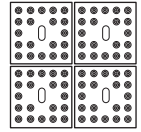
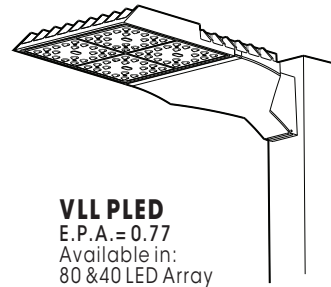


EXTRUDED ALUMINUM ARM AND CAST ALUMINUM WALL BRACKET ASSEMBLY PROVIDED WITH BUILT IN GASKETED WIRE ACCESS FOR FIXTURE/SUPPLY WIRE CONNECTION.

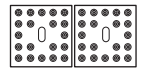
WALL PLATE



PLED™ MODULES



80 LED Array



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 | 266 | 450 |

Spec/Order Example: VLL-LED/PLED-V-SQ/80LED-700mA/NW/277/1/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 | 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-ML <input type="checkbox"/> TYPE III MED. PLED-III M <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-VSQ-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"/> 80LED <input type="checkbox"/> 1050mA <input type="checkbox"/> NW (4000K)* *STANDARD <input type="checkbox"/> 40LED <input type="checkbox"/> 700mA <input type="checkbox"/> CW (5000K) <input type="checkbox"/> 525mA <input type="checkbox"/> WW (3000K) <input type="checkbox"/> 350mA 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. UPA WALL MOUNT <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 SMOOTH FINISH REPLACE SUFFIX "T" WITH SUFFIX "S" (EXAMPLE: RAL-9005-S) SEE USALTG.COM FOR ADDITIONAL 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 |

VALULUME SERIES - PLED

LAMP/ELECTRICAL GUIDE

| LED COUNT | SOURCE TYPE | SOURCE | INITIAL LUMENS - 4000K | INITIAL LUMENS - 3000K | INITIAL LUMENS - 5000K | L70 GREATER THAN (HR) | STARTING TEMP. | SYSTEM WATTS | VOLTS | MAX INPUT AMPS |
|-----------|-------------|----------------------------------|------------------------|------------------------|------------------------|-----------------------|----------------|--------------|------------|----------------|
| 40 | LED | 40 PLED Optical Module - 350mA | 5,077 - 5,464 | 4,445 - 4,784 | 5,199 - 5,595 | 60,000+ | -20°F | 45 | 120 277 | 0.38 0.17 |
| 40 | LED | 40 PLED® Optical Module - 525mA | 6,977 - 7,507 | 6,108 - 6,573 | 7,144 - 7,687 | 60,000+ | -20°F | 66 | 120 277 | 0.58 0.25 |
| 40 | LED | 40 PLED® Optical Module - 700mA | 8,425 - 9,067 | 7,376 - 7,938 | 8,627 - 9,285 | 60,000+ | -20°F | 91 | 120 277 | 0.76 0.33 |
| 40 | LED | 40 PLED® Optical Module - 1050mA | 10,956 - 11,792 | 9,592 - 10,324 | 11,219 - 12,075 | 60,000+ | -20°F | 142 | 120 277 | 1.19 0.52 |
| 80 | LED | 80 PLED® Optical Module - 350mA | 10,153 - 10,926 | 8,889 - 9,566 | 10,397 - 11,188 | 60,000+ | -20°F | 92 | 120 277 | 0.77 0.34 |
| 80 | LED | 80 PLED® Optical Module - 525mA | 13,952 - 15,015 | 12,215 - 13,146 | 14,287 - 15,376 | 60,000+ | -20°F | 136 | 120 277 | 1.14 0.50 |
| 80 | LED | 80 PLED® Optical Module - 700mA | 16,851 - 18,139 | 14,752 - 15,877 | 17,254 - 18,570 | 60,000+ | -20°F | 184 | 120 277 | 1.54 0.67 |
| 80 | LED | 80 PLED® Optical Module - 1050mA | 23,188 - 25,864 | 20,301 - 22,644 | 23,745 - 26,448 | 60,000+ | -20°F | 266 | 120 277 | 2.22 0.96 |

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 10KV - 20KV surge suppressors.
5. L70(9K) - 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.