

# SOLID STATE AREA LIGHTING

# VRS SERIES-PLED

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

### HOUSING

Unitized 0.125" heavy wall aluminum construction. Upper side vents are protected with perforated aluminum panels. Side vents and bottom lens frame vents provide passive and forced convective cooling of the **PLED™** module. Internal driver compartment is gasketed and sealed.

### 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 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.

### MOUNTINGS

**Arm** - One piece heavy wall extruded aluminum with internal draw bolt guides. Arm is secured to housing and pole with stainless steel draw bolts.

**Wall** - Heavy wall extruded aluminum arm with draw bolts integrates with a cast aluminum wall plate and mounting bracket.

**Canopy** - Standard 1" high cast aluminum mounting plate with central wireway or 2" high heavy gauge wire box with 3/4" conduit knockouts on each side.

### 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.

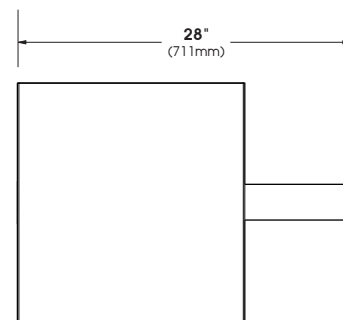
PROJECT NAME: \_\_\_\_\_

FIXTURE TYPE: \_\_\_\_\_

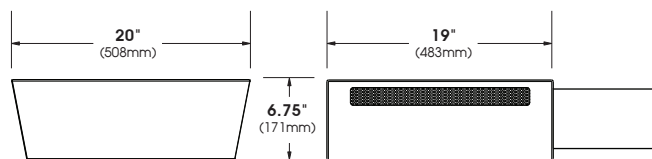


## VRS LED

PATENT PENDING



TOP VIEW



FRONT VIEW

SIDE VIEW



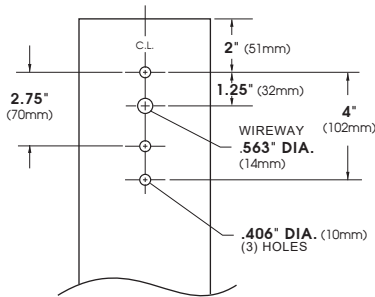
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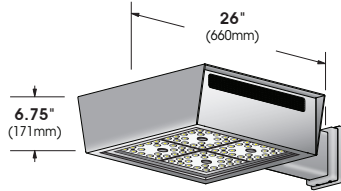
# VRS SERIES - PLED

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

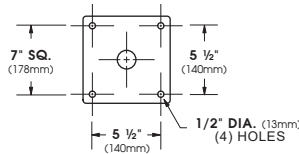
### POLE DRILLING TEMPLATE



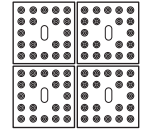
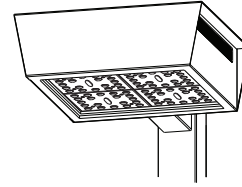
### WALL MOUNT



### WALL PLATE



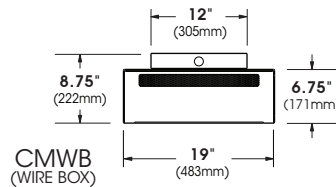
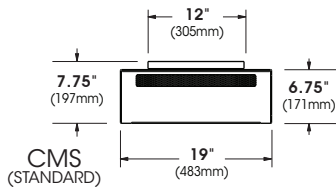
### PLED™ MODULES



80 LED Module

**VRS LED**  
E.P.A. = 1.43  
Available in:  
80 & 40 LED Array

### CANOPY MOUNT



| No. of LEDs | Drive Current | System Watts | HID Equivalent |
|-------------|---------------|--------------|----------------|
| 40          | 350mA         | 43           | 70 - 100       |
|             | 525mA         | 65           | 100 - 150      |
|             | 700mA         | 87           | 175            |
|             | 1050mA        | 128          | 200 - 250      |
| 80          | 350mA         | 86           | 150 - 175      |
|             | 525mA         | 130          | 200 - 250      |
|             | 700mA         | 174          | 400            |
|             | 1050mA        | 257          | 575            |

Spec/Order Example: VRS-LED/PLED-V-SQ/80LED-700mA/NW/277/1/RAL9005-T

## 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"/> VRS PLED | <b>PLED™ DISTRIBUTION</b><br><input type="checkbox"/> TYPE II PLED-II<br><input type="checkbox"/> TYPE II FRONT ROW PLED-II-FR<br><input type="checkbox"/> TYPE II MEDIAN ILLUMINATOR PLED-II-ML<br><input type="checkbox"/> TYPE III MED. PLED-III-M<br><input type="checkbox"/> TYPE III WIDE PLED-III-W<br><input type="checkbox"/> TYPE IV PLED-IV<br><input type="checkbox"/> TYPE IV PLED-IV-FT<br><input type="checkbox"/> TYPE V NARROW PLED-V-SQ-N<br><input type="checkbox"/> TYPE V MED. PLED-V-SQ-M<br><input type="checkbox"/> TYPE V WIDE PLED-V-SQ-W | No. LEDs<br><input type="checkbox"/> 80LED<br><input type="checkbox"/> 40LED<br><br>DRIVE CURRENT<br><input type="checkbox"/> 1050mA<br><input type="checkbox"/> 700mA<br><input type="checkbox"/> 525mA<br><input type="checkbox"/> 350mA<br><br>COLOR TEMP-CCT<br><input type="checkbox"/> NW (4000K)*<br>*STANDARD<br><input type="checkbox"/> CW (5000K)<br><input type="checkbox"/> WW (3000K)<br><br>OTHER LED COLORS AVAILABLE CONSULT FACTORY<br><br>VOLTAGE<br><input type="checkbox"/> 120<br><input type="checkbox"/> 208<br><input type="checkbox"/> 240<br><input type="checkbox"/> 277<br><input type="checkbox"/> 347<br><input type="checkbox"/> 480<br><br>AMBER <sup>4</sup><br><input type="checkbox"/> PHOSPHOR CONVERTED AMBER PCA<br><input type="checkbox"/> TRUE AMBER <sup>5</sup> TRA | ARM MOUNT<br><input type="checkbox"/> 1<br><input type="checkbox"/> 2-180<br><input type="checkbox"/> 2-90<br><input type="checkbox"/> 3-90<br><input type="checkbox"/> 3-120<br><input type="checkbox"/> 4-90<br><br>WALL MOUNT<br><input type="checkbox"/> WM<br><br>CANOPY MOUNT<br><input type="checkbox"/> CMS (STANDARD)<br><input type="checkbox"/> CMWB (WIRE BOX) | STANDARD TEXTURED FINISH<br><input type="checkbox"/> BLACK RAL-9005-T<br><input type="checkbox"/> WHITE RAL-9003-T<br><input type="checkbox"/> GREY RAL-7004-T<br><input type="checkbox"/> DARK BRONZE RAL-8019-T<br><input type="checkbox"/> GREEN RAL-6005-T<br><br>FOR SMOOTH FINISH REPLACE SUFFIX 'T' WITH SUFFIX 'S' (EXAMPLE: RAL-9005-S)<br><br>SEE USALTG.COM FOR ADDITIONAL COLORS | <input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NONINTEGRATED MOTION SENSOR . . . . . HLSW<br><input type="checkbox"/> INTERNAL HOUSE SIDE SHIELD . . . HS-PLED<br><input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) . . PC+V<br><input type="checkbox"/> TWIST LOCK RECEPTACLE ONLY . . . TPR<br><input type="checkbox"/> 7-PIN TWIST LOCK RECEPTACLE ONLY . . . TPR7<br><input type="checkbox"/> SINGLE FUSE (120V, 277V, 347V) . . SF<br><input type="checkbox"/> DOUBLE FUSE (208V, 240V, 480V) . . DF<br><input type="checkbox"/> BLUE-TOOTH PROGRAMMABLE PHOTO/MOTION SENSOR (FACTORY - MOTION 50/100; PHOTO 75/c) . . . . . MS-F311 |



# VRS SERIES - PLED

## LAMP/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          | 43           | 120<br>277 | 0.38<br>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          | 65           | 120<br>277 | 0.55<br>0.24   |
| 40        | LED         | 40 PLED® Optical Module - 700mA  | 10,240 - 11,749            | 9,728 - 11,162             | 10,752 - 12,337            | 54,000+               | -20°F          | 87           | 120<br>277 | 0.73<br>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          | 128          | 120<br>277 | 1.12<br>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          | 86           | 120<br>277 | 0.75<br>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          | 130          | 120<br>277 | 1.10<br>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<br>277 | 1.45<br>0.63   |
| 80        | LED         | 80 PLED® Optical Module - 1050mA | 26,255 - 30,124            | 24,942 - 28,618            | 27,568 - 31,630            | 60,000+               | -20°F          | 257          | 120<br>277 | 2.23<br>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.



# SOLID STATE AREA LIGHTING

# VRS SERIES-VLED

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

### HOUSING

Unitized 0.125" heavy wall aluminum construction. Upper side vents are protected with perforated aluminum panels. Side vents and bottom lens frame vents provide passive and forced convective cooling of the **VLED** module. Internal driver compartment is gasketed and sealed.

### **VLED** OPTICS

Low copper A356 alloy (<.2% copper) cast aluminum housing. Integrated clear tempered glass lens sealed with a continuous silicone gasket protects emitters (LED's) and emitter Reflector-Prism optics, and seals the module from water intrusion and environmental contaminants. Module is sealed to meet an IP67 rating. Each emitter is optically controlled by a Reflector-Prism injection molded from H12 acrylic (3 types per module; one from 0° - 50°; one from 50° - 65°; one from 65° - 72°). Each Reflector-Prism has indexing pins for aiming and is secured to an optical plate made of matte black anodized aluminum. The optical plate locates every Reflector-Prism over an emitter. Reflector-Prisms are secured to the optical plate with a UV curing adhesive. The Reflector-Prisms are arrayed to produce IES Type II, III, IV, and V-SQ distributions. The entire Optical Module is field rotatable in 90° increments. Both module and drivers are factory wired using water resistant, insulated cord.

### LED DRIVER

Drivers are UL and cUL recognized mounted on a single plate and factory prewired with quick-disconnect plugs. Constant current driver is electronic and has a power factor of >0.90 and a minimum operating temperature of -40°F. Drivers accept an input of 120-277V, 50/60Hz or 347-480V, 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.

### MOUNTINGS

**Arm** - One piece heavy wall extruded aluminum with internal draw bolt guides. Arm is secured to housing and pole with stainless steel draw bolts.

**Post Top Arms** - Four (4) 1" Square extruded aluminum arms welded to a cast aluminum pole top fitter. Arm assembly is mechanically attached to castings welded to either side of the housing.

**Wall** - Heavy wall extruded aluminum arm with draw bolts integrates with a cast aluminum wall plate and mounting bracket.

**Canopy** - Standard 1" high cast aluminum mounting plate with central wireway or 2" high heavy gauge wire box with 3/4" conduit knockouts on each side.

### 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.

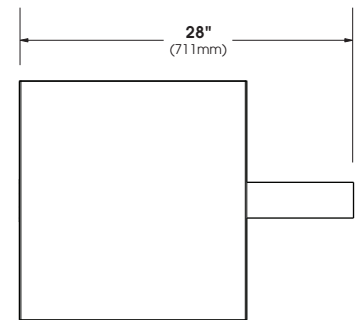
PROJECT NAME: \_\_\_\_\_

FIXTURE TYPE: \_\_\_\_\_

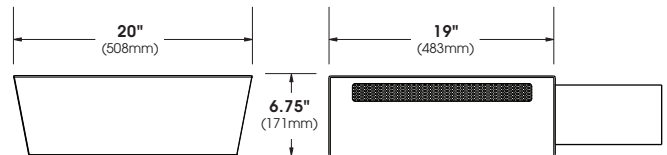


## VRS LED

PATENT PENDING



TOP VIEW



FRONT VIEW

SIDE VIEW



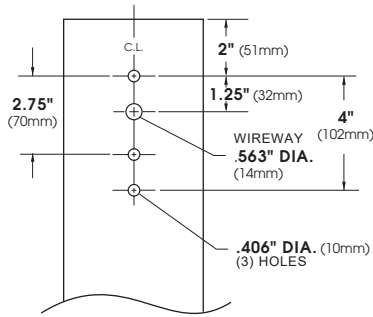
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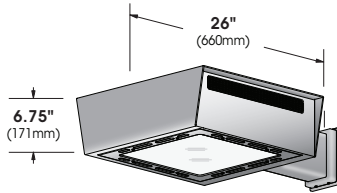
# VRS SERIES - VLED

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

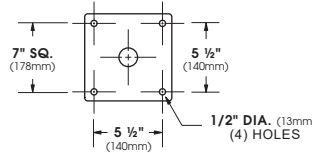
### POLE DRILLING TEMPLATE



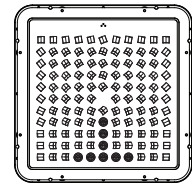
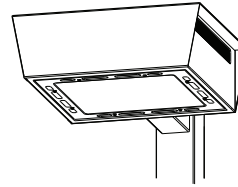
### WALL MOUNT



### WALL PLATE



### VLED® MODULES



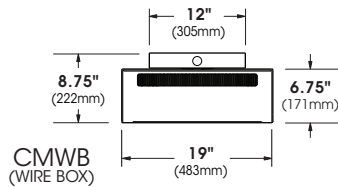
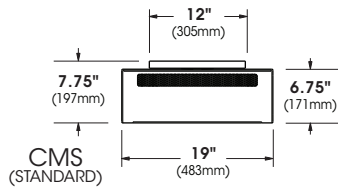
**VRS LED**  
E.P.A. = 1.43  
Available in:  
120, 80, 64 & 48 LED Module

120 LED Module

Approximate Average Lumens - 4000K  
(Lumens median of all distributions)

|     | 350mA |        |         | 525mA |        |         | 700mA |        |         |
|-----|-------|--------|---------|-------|--------|---------|-------|--------|---------|
|     | Watts | Lumens | HID Eq. | Watts | Lumens | HID Eq. | Watts | Lumens | HID Eq. |
| 48  | 53    | 5,843  | 70-100  | 77    | 8,046  | 100-175 | 103   | 10,074 | 200-250 |
| 64  | 71    | 7,791  | 100-175 | 102   | 10,728 | 175     | 138   | 12,402 | 315-350 |
| 80  | 87    | 9,164  | 150-175 | 130   | 12,493 | 200-250 | 173   | 15,539 | 350-400 |
| 100 | 110   | 11,055 | 200     | 160   | 15,295 | 350-400 | -     | -      | -       |
| 120 | 129   | 13,265 | 250     | 192   | 18,354 | 400-450 | -     | -      | -       |

### CANOPY MOUNT



Spec/Order Example: VRS LED/VLED-V-SQ/120LED 350mA-CW 277/PTA/RAL7004-T

## 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"/> VRS LED | <b>VLED®</b><br><input type="checkbox"/> TYPE II<br><b>VLED-II</b> .....<br><input type="checkbox"/> TYPE III<br><b>VLED-III</b> .....<br><input type="checkbox"/> TYPE IV<br><b>VLED-IV</b> .....<br><input type="checkbox"/> TYPE V<br><b>VLED-V-SQ</b> ..... | No. LEDs<br><input type="checkbox"/> 120LED <sup>1</sup> <input type="checkbox"/> 700mA <input type="checkbox"/> NW (4000K)*<br><small>*STANDARD</small><br><input type="checkbox"/> 100LED <sup>1</sup> <input type="checkbox"/> 525mA <input type="checkbox"/> CW (5000K)<br><input type="checkbox"/> 80LED <input type="checkbox"/> 350mA <input type="checkbox"/> WW (3000K)<br><input type="checkbox"/> 64LED<br><input type="checkbox"/> 48LED<br><br><small>NOTE:</small><br>1 - AVAILABLE IN ARM AND POST TOP MODELS ONLY.<br>NOT AVAILABLE IN 700mA.<br><br>VOLTAGE<br><input type="checkbox"/> 120<br><input type="checkbox"/> 208<br><input type="checkbox"/> 240<br><input type="checkbox"/> 277<br><input type="checkbox"/> 347<br><input type="checkbox"/> 480 | <b>ARM MOUNT</b><br><input type="checkbox"/> 1 .....<br><input type="checkbox"/> 2-180 .....<br><input type="checkbox"/> 2-90 .....<br><input type="checkbox"/> 3-90 .....<br><input type="checkbox"/> 3-120 .....<br><input type="checkbox"/> 4-90 .....<br><br><b>WALL MOUNT</b><br><input type="checkbox"/> WM ..... | <b>STANDARD TEXTURED FINISH</b><br><input type="checkbox"/> BLACK<br><b>RAL-9005-T</b><br><input type="checkbox"/> WHITE<br><b>RAL-9003-T</b><br><input type="checkbox"/> GREY<br><b>RAL-7004-T</b><br><input type="checkbox"/> DARK BRONZE<br><b>RAL-8019-T</b><br><input type="checkbox"/> GREEN<br><b>RAL-6005-T</b> | <input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NONINTEGRATED MOTION SENSOR ..... <b>HLSW</b><br><input type="checkbox"/> INTERNAL HOUSE SIDE SHIELDS ..... <b>HS</b><br><input type="checkbox"/> EXTERNAL HOUSE SIDE SHIELD ..... <b>EHS</b><br><input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) ..... <b>PC+V</b><br><input type="checkbox"/> TWIST LOCK RECEPTACLE ONLY ..... <b>TPR</b><br><input type="checkbox"/> 7-PIN TWIST LOCK RECEPTACLE ONLY ..... <b>TPR7</b><br><input type="checkbox"/> SINGLE FUSE (120V, 277V, 347V) ..... <b>SF</b><br><input type="checkbox"/> DOUBLE FUSE (208V, 240V, 480V) ..... <b>DF</b><br><input type="checkbox"/> STEP DIM MOTION SENSOR (PROGRAMMED 50/100) ..... <b>MS-F211</b><br><input type="checkbox"/> REMOTE MOTION SENSOR CONFIGURATOR ..... <b>MS-FC10</b> |
|                                  |   |  | <b>YOKE MOUNT</b><br><input type="checkbox"/> PTA .....<br><input type="checkbox"/> PTB .....   | <input type="checkbox"/> GREEN<br><b>RAL-6005-T</b><br><br><small>FOR SMOOTH FINISH REPLACE SUFFIX "T" WITH SUFFIX "S" (EXAMPLE: RAL-9005-S)</small>  |   |
|                                  |   |  | <b>CANOPY MOUNT</b><br><input type="checkbox"/> CMS .....  (STANDARD)<br><input type="checkbox"/> CMWB .....  (WIRE BOX)  | <small>SEE USALTG.COM FOR ADDITIONAL COLORS</small>   |   |



# VRS SERIES - VLED

## 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       |
|-----------|-------------|----------------------------------|------------------------|------------------------|------------------------|-----------------------|----------------|--------------|-------------------|----------------------|
| 48        | LED         | 48 VLED* Optical Module - 350mA  | 5,664 - 6,022          | 5,381 - 5,721          | 5,847 - 6,323          | 60,000+               | -20°F          | 55           | 120<br>277<br>347 | 0.45<br>0.20<br>0.16 |
| 48        | LED         | 48 VLED* Optical Module - 525mA  | 7,799 - 8,292          | 7,409 - 7,877          | 8,189 - 8,707          | 60,000+               | -20°F          | 79           | 120<br>277<br>347 | 0.65<br>0.26<br>0.23 |
| 48        | LED         | 48 VLED* Optical Module - 700mA  | 9,765 - 10,382         | 9,277 - 9,863          | 10,253 - 10,901        | 60,000+               | -20°F          | 109          | 120<br>277<br>347 | 0.86<br>0.38<br>0.30 |
| 64        | LED         | 64 VLED* Optical Module - 350mA  | 7,552 - 8,030          | 7,174 - 7,629          | 7,930 - 8,432          | 60,000+               | -20°F          | 70           | 120<br>277<br>347 | 0.60<br>0.26<br>0.21 |
| 64        | LED         | 64 VLED* Optical Module - 525mA  | 10,399 - 11,057        | 9,879 - 10,504         | 10,919 - 11,610        | 60,000+               | -20°F          | 108          | 120<br>277<br>347 | 0.85<br>0.37<br>0.30 |
| 64        | LED         | 64 VLED* Optical Module - 700mA  | 12,111 - 12,693        | 11,505 - 12,058        | 12,717 - 13,328        | 60,000+               | -20°F          | 134          | 120<br>277<br>347 | 1.15<br>0.50<br>0.40 |
| 80        | LED         | 80 VLED* Optical Module - 350mA  | 8,883 - 9,445          | 8,439 - 8,973          | 9,327 - 9,917          | 60,000+               | -20°F          | 85           | 120<br>277<br>347 | 0.73<br>0.33<br>0.26 |
| 80        | LED         | 80 VLED* Optical Module - 525mA  | 12,110 - 12,876        | 11,505 - 12,232        | 12,716 - 13,520        | 60,000+               | -20°F          | 130          | 120<br>277<br>347 | 1.09<br>0.47<br>0.38 |
| 80        | LED         | 80 VLED* Optical Module - 700mA  | 15,211 - 15,866        | 14,381 - 15,073        | 15,895 - 16,659        | 60,000+               | -20°F          | 167          | 120<br>277<br>347 | 1.45<br>0.63<br>0.50 |
| 100       | LED         | 120 VLED* Optical Module - 350mA | 10,812 - 11,297        | 10,271 - 10,732        | 11,353 - 11,862        | 60,000+               | -20°F          | 109          | 120<br>277<br>347 | 0.92<br>0.40<br>0.32 |
| 100       | LED         | 120 VLED* Optical Module - 525mA | 14,958 - 15,632        | 14,210 - 14,850        | 15,706 - 16,414        | 60,000+               | -20°F          | 160          | 120<br>277<br>347 | 1.34<br>0.58<br>0.47 |
| 120       | LED         | 120 VLED* Optical Module - 350mA | 12,973 - 13,557        | 12,324 - 12,879        | 13,622 - 14,235        | 60,000+               | -20°F          | 130          | 120<br>277<br>347 | 1.08<br>0.47<br>0.38 |
| 120       | LED         | 120 VLED* Optical Module - 525mA | 17,950 - 18,758        | 17,053 - 17,820        | 18,848 - 19,696        | 60,000+               | -20°F          | 192          | 120<br>277<br>347 | 1.60<br>0.70<br>0.56 |

### 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.





# SOLID STATE AREA LIGHTING

## VRS CANOPY SERIES-LED

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

#### HOUSING

Unitized 0.125" heavy wall aluminum construction. Upper side vents are protected with perforated aluminum panels. Side vents and bottom lens frame vents provide passive and forced convective cooling of the **VLED®** module. Internal driver compartment is gasketed and sealed.

#### **VLED®** OPTICS

Low copper A356 alloy (<.2% copper) cast aluminum housing. Integrated clear tempered glass lens sealed with a continuous silicone gasket protects emitters (LED's) and emitter Reflector-Prism optics, and seals the module from water intrusion and environmental contaminants. Module is sealed to meet an IP67 rating. Each emitter is optically controlled by a Reflector-Prism injection molded from H12 acrylic (3 types per module; one from 0° - 50°; one from 50° - 65°; one from 65° - 72°). Each Reflector-Prism has indexing pins for aiming and is secured to an optical plate made of matte black anodized aluminum. The optical plate locates every Reflector-Prism over an emitter. Reflector-Prisms are secured to the optical plate with a UV curing adhesive. The Reflector-Prisms are arrayed to produce IES Type II, III, IV, and V-SQ distributions. The entire Optical Module is field rotatable in 90° increments. Both module and drivers are factory wired using water resistant, insulated cord.

#### LED DRIVER

Drivers are UL and cUL recognized mounted on a single plate and factory prewired with quick-disconnect plugs. Constant current driver is electronic and has a power factor of >0.90 and a minimum operating temperature of -40°F. Drivers accept an input of 120-277V, 50/60Hz or 347-480V, 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.

#### CANOPY MOUNTINGS

Standard 1" high cast aluminum mounting plate with central wireway or 2" high heavy gauge wire box with 3/4" conduit knockouts on each side.

#### 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.

PROJECT NAME: \_\_\_\_\_

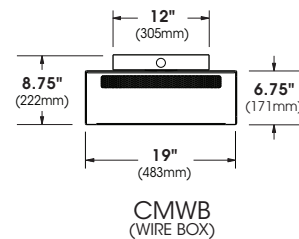
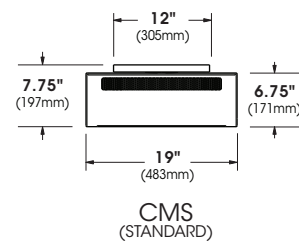
FIXTURE TYPE: \_\_\_\_\_



## VRS CANOPY LED\*

\*VRS-CMWB LED SHOWN

PATENT PENDING



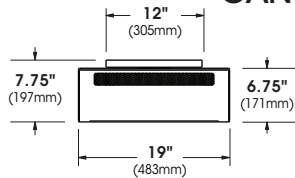
2018352



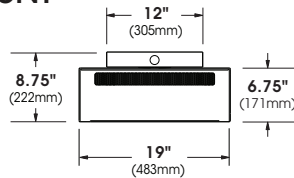
# VRS CANOPY SERIES - LED

## SPECIFICATIONS

### CANOPY MOUNT

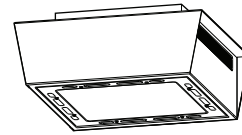


CMS  
(STANDARD)



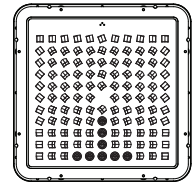
CMWB  
(WIRE BOX)

### LED MODULES

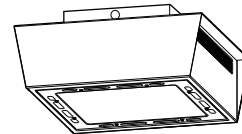


#### VRS-CMS LED

E.P.A. = 1.14  
Available in:  
80, 64 & 48 LED Module



120 LED Module



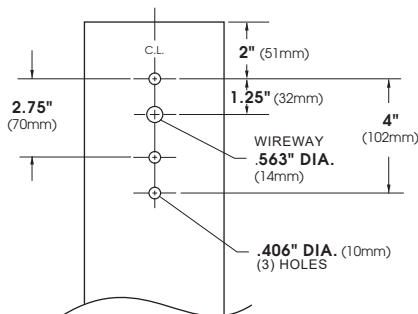
#### VRS-CMWB LED

E.P.A. = 1.24  
Available in:  
80, 64 & 48 LED Module

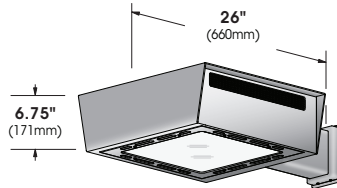
#### MAX INPUT WATTAGE

| # OF LED's | DRIVE CURRENT 350mA | 525mA |
|------------|---------------------|-------|
| 80         | 85W                 | 130W  |
| 64         | 70W                 | 108W  |
| 48         | 55W                 | 79W   |

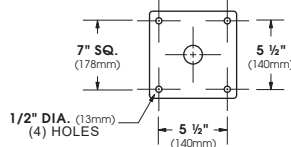
### POLE DRILLING TEMPLATE



### WALL MOUNT








### WALL PLATE



Spec/Order Example: VRS LED/III/64LED525mA208/CMS/RAL-7004-T/HS

## SPEC / ORDERING INFORMATION

| MODEL  | OPTICS   | LED                            |                                |   |                              | FINISH   | OPTIONS   |
|--|--|--------------------------------|--------------------------------|---|------------------------------|--|---|
| <input type="checkbox"/> VRS-CMS LED (STANDARD)  | <input type="checkbox"/> TYPE II    | <input type="checkbox"/> 80LED | <input type="checkbox"/> 525mA | <input type="checkbox"/> NW (4000K)*<br>*STANDARD | <input type="checkbox"/> 120 | <input type="checkbox"/> BLACK<br>RAL-9005-T                               | <input type="checkbox"/> DIMMER (0V-10V PROVIDED) . . . . . DIM   |
| <input type="checkbox"/> VRS-CMWB LED (WIRE BOX) | <input type="checkbox"/> TYPE III   | <input type="checkbox"/> 64LED | <input type="checkbox"/> 350mA | <input type="checkbox"/> CW (5000K)               | <input type="checkbox"/> 208 | <input type="checkbox"/> WHITE<br>RAL-9003-T                               | <input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NONINTEGRATED MOTION SENSOR . . . . . HLSW |
|  | <input type="checkbox"/> TYPE IV    | <input type="checkbox"/> 64LED |                                | <input type="checkbox"/> WW (3000K)               | <input type="checkbox"/> 240 | <input type="checkbox"/> GREY<br>RAL-7004-T                                | <input type="checkbox"/> INTERNAL HOUSE SIDE SHIELDS . . . . . HS   |
|  | <input type="checkbox"/> TYPE V     |                                |                                | CONSULT FACTORY FOR OTHER LED COLORS              | <input type="checkbox"/> 277 | <input type="checkbox"/> DARK BRONZE<br>RAL-8019-T                         | <input type="checkbox"/> EXTERNAL HOUSE SIDE SHIELD . . . . . EHS   |
|  | <input type="checkbox"/> TYPE V-SQ  |                                |                                |   | <input type="checkbox"/> 347 | <input type="checkbox"/> GREEN<br>RAL-6005-T                               | <input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) . . . . . PC+V                                  |
|  |  |                                |                                |   | <input type="checkbox"/> 480 |  | <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                                    |
|  |  |                                |                                |   |                              | FOR SMOOTH FINISH REPLACE SUFFIX 'T' WITH SUFFIX 'S' (EXAMPLE: RAL-9005-S) |   |
|  |  |                                |                                |   |                              | CONSULT FACTORY FOR CUSTOM COLORS  |   |

