



# VSA-LED Red

Vandal Resistant High Abuse Surface Mount **LED** Linear

## PRODUCT SPECIFICATION

For use in cleanroom vivarium applications.

### Mounting

Surface mounts to ceilings or walls.  
Able to be pendant mounted. Please consult factory.

### Housing

Marine grade aluminum extruded housing and die-cast end caps.

### Lens Frame

Marine grade aluminum extruded side rails and die-cast ends captivates lens.

### Finish

Polyester powder-coated after phosphate pretreatment for superior adhesion and corrosion resistance.

### Lens

.125 in. thick extruded polycarbonate snap-fits into lens frame.  
Fully illuminated opal lens completely hides diode image while maintaining excellent transmission.

### Gasket

Closed cell foam gasket continuously seals lens frame to housing for up to IP67 rating.

### Hardware

Stainless steel, tamperproof fasteners finished to match housing.

### Driver

0-10Vdc 1% dimming, >0.9 PF, <20% THD  
Factory programmable, Operating temp -40°C Min. to 50°C Max

### Wiring

Driver provided with pre-wired 3-wire self-aligning input power quick disconnect and 2-wire quick disconnect to LED module.

### Certifications

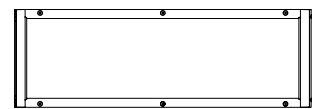
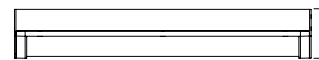
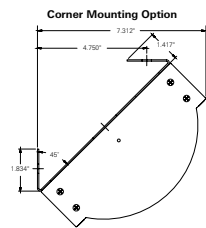
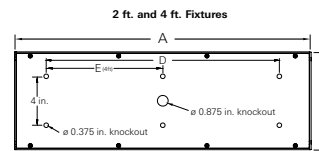
UL Listed wet location. IP65 rated. Optional IP66 (NEMA4 / 4X rated) and IP67 ratings available. Constructed to pass MIL-S-901 Grade A, Type A, High Impact Shock Test and MIL-S-167 Type 1, Vibration Test. Suitable for use in Natatorium Environments.

Job Name \_\_\_\_\_

Fixture Type \_\_\_\_\_

Catalog No. \_\_\_\_\_

Approval \_\_\_\_\_ Date \_\_\_\_\_



| Size  | A     | B    | C    | D   | E     |
|-------|-------|------|------|-----|-------|
| 2 ft. | 24.2" | 8.0" | 3.7" | 19" | 9.5"  |
| 4 ft. | 48.2" | 8.0" | 3.7" | 43" | 21.5" |



VSA one two three four five six seven eight nine ten eleven  
- - / - VAR DM - OP - -

### one Luminaire Size

- 2 2 ft. fixture
- 4 4 ft. fixture

### two LED Source

Refer to the LED Source Table on Page 2 for available options.

### three Color Temperature

- 30 3000K
  - 35 3500K
  - 40 4000K
  - 50 5000K
- Leave blank for RED-LED only.

### four CRI

- 80 80 CRI
  - 90 90 CRI
- Leave blank for RED-LED only.

### five Voltage

VAR Variable, 120-277 V, 50/60Hz

### six Driver

DM 0-10Vdc Dimming, standard

### seven Lens

OP Opal polycarbonate, standard

### eight Finish

- WH White
- BK Matte Black
- LG Light Gray
- CC Custom Color (Contact Factory)

### nine Hardware

- TP Torx head, standard
- PH Phillips head

### ten IP Rating

- 65 IP65 Rated, standard
- 66 IP66 Rated, NEMA4 / 4X Rated
- 67 IP67 Rated

### eleven Options

- 2C Two circuit wired
- AM Anti-microbial coating (exposed areas)
- CM Corner mounting bracket
- CU Canadian UL Listing
- EM\*<sup>1</sup> Emergency battery backup
- FH Fuse holder
- IMS Integral Occ Sensor
- NL-LED LED night light
- PM Pendant mount  
*Pendant supplied by others.  
Customer must provide mounting hole template.*
- PC Photocell
- RMxx\*<sup>2</sup> Row mounting  
*Includes Chase Nipple(s), PVC Gasket(s), and Sealing Locknut(s)*
- NS NSF listing (refer to the NSF version of this cut sheet)

\*EM = Not available on 1 ft. fixture  
\*XX = Length of row in feet

Modifications are available to meet custom requirements.  
Specifications and dimensions are subject to change without notice.

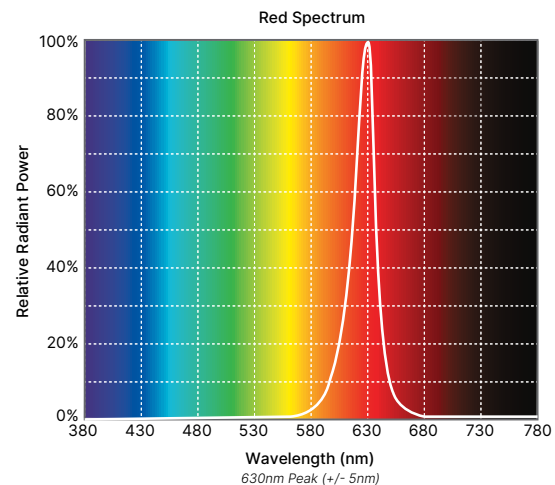
| CRI | LED Life |
|-----|----------|
| >80 | >100,000 |

Red/White LED

| LED Source (Box 2)  | Red              |       | 3000K            |     | 3500K            |     | 4000K            |     | 5000K            |     | Input Watts |
|---------------------|------------------|-------|------------------|-----|------------------|-----|------------------|-----|------------------|-----|-------------|
|                     | Delivered Lumens | Watts | Delivered Lumens | L/W | Delivered Lumens | L/W | Delivered Lumens | L/W | Delivered Lumens | L/W |             |
| <b>2ft. Fixture</b> |                  |       |                  |     |                  |     |                  |     |                  |     |             |
| 1R/1W18             | 968              | 22    | 1812             | 105 | 1839             | 107 | 1893             | 110 | 1947             | 113 | 17.2        |
| 1R/1W29             | 968              | 22    | 2803             | 105 | 2845             | 106 | 2929             | 109 | 3013             | 112 | 26.8        |
| <b>4ft. Fixture</b> |                  |       |                  |     |                  |     |                  |     |                  |     |             |
| 1R/1W29             | 1962             | 44    | 2782             | 115 | 2823             | 117 | 2906             | 120 | 2989             | 124 | 24.2        |
| 1R/1W43             | 1962             | 44    | 4117             | 115 | 4178             | 117 | 4301             | 120 | 4424             | 124 | 35.8        |
| 1R/1W57             | 1962             | 44    | 5497             | 113 | 5580             | 114 | 5744             | 118 | 5908             | 121 | 48.8        |

Red LED Only

| LED Source (Box 2)  | Delivered Lumens | L/W   | Input Watts |
|---------------------|------------------|-------|-------------|
| <b>2ft. Fixture</b> |                  |       |             |
| 1R                  | 2546             | 116.3 | 21.9        |
| <b>4ft. Fixture</b> |                  |       |             |
| 1R                  | 5162             | 117.9 | 43.8        |



Specified Output Option

LC Doane programmable drivers allow us to deliver a specific lumen output. If none of the options in the chart above fit your application, let us know the desired lumen output and we will do the rest. See the example below on how this will be specified:

**Example Model:**

VSA2-XX<sup>1</sup>SO40/80-VARDM-OP-(XX<sup>2</sup>/LUMENS)

**LUMENS** = You provide the lumens.

**XX<sup>1</sup>** = We will determine the number of rows.

**XX<sup>2</sup>** = We will provide the wattage information.

**Photometric Data @ 80 CRI**

Use the multipliers below to adjust the delivered lumens

|                   |     |
|-------------------|-----|
| 90 CRI multiplier | .83 |
|-------------------|-----|



**Lifetime Warranty:** We are proud to offer the L.C. Doane Assurance. L.C. Doane High Abuse lighting products are manufactured to withstand today's complex and demanding environments. The L.C. Doane Company will repair or replace any High Abuse or VR Architectural fixture when installed according to our instructions for the life of the original installation if the fixture should fail due to physical abuse.