



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.

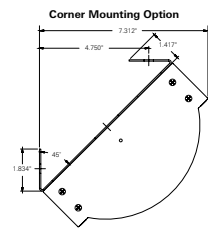
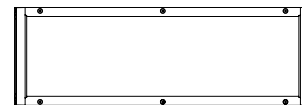
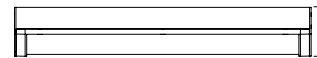
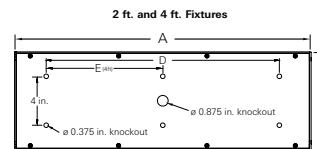
Job Name

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"



one	two	three	four	five	six	seven	eight	nine	ten	eleven
VSA	-	-	/	-	VAR	DM	-	OP	-	-
one	Luminaire Size			five	Voltage			eleven	Options	
2	2 ft. fixture			VAR	Variable, 120-277 V, 50/60Hz			2C	Two circuit wired	
4	4 ft. fixture			six	Driver			AM	Anti-microbial coating (exposed areas)	
two	LED Source			DM	0-10Vdc Dimming, <u>standard</u>			CM	Corner mounting bracket	
	Refer to the LED Source Table on Page 2 for available options.			seven	Lens			CU	Canadian UL Listing	
				OP	Opal polycarbonate, <u>standard</u>			EM*	Emergency battery backup	
three	Color Temperature			eight	Finish			FH	Fuse holder	
30	3000K			WH	White			IMS	Integral Occ Sensor	
35	3500K			BK	Matte Black			NL-LED	LED night light	
40	4000K			LG	Light Gray			PM	Pendant mount	
50	5000K			CC	Custom Color (Contact Factory)				Pendant supplied by others. Customer must provide mounting hole template.	
	Leave blank for RED-LED only.			nine	Hardware			PC	Photocell	
four	CRI			TP	Torx head, <u>standard</u>			RMxx*	Row mounting	
80	80 CRI			PH	Phillips head				Includes Chase Nipple(s), PVC Gasket(s), and Sealing Locknut(s)	
90	90 CRI			ten	IP Rating			NS	NSF listing (refer to the NSF version of this cut sheet)	
	Leave blank for RED-LED only.			65	IP65 Rated, <u>standard</u>				*EM = Not available on 1 ft. fixture	
				66	IP66 Rated, <u>NEMA4 / 4X Rated</u>				*XX = Length of row in feet	
				67	IP67 Rated					
Modifications are available to meet custom requirements										

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

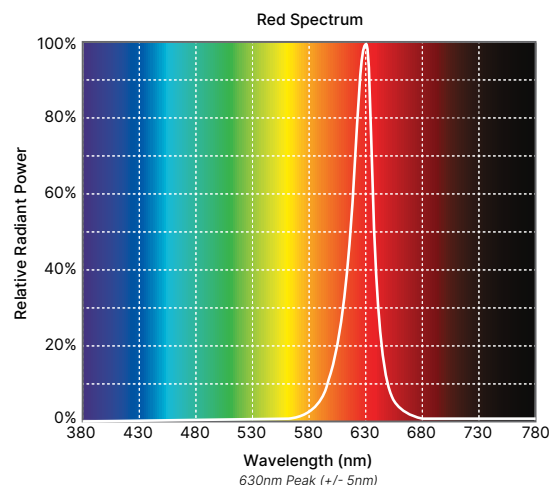
CRI	LED Life
>80	>100,000

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	
2ft. Fixture											
1R/1W18	968	22	1745	117	1792	120	1846	124	1846	124	14.9
1R/1W30	968	22	2750	112	2825	115	2911	118	2911	118	24.6
4ft. Fixture											
1R/1W30	1962	44	2896	120	2974	123	3065	127	3065	127	24.2
1R/1W45	1962	44	4165	117	4279	120	4408	124	4408	124	35.6
1R/1W60	1962	44	5577	114	5729	117	5902	120	5902	120	49.1

Red LED Only

LED Source (Box 2)	Delivered Lumens	L/W	Input Watts
2ft. Fixture			
1R	2546	116.3	21.9
4ft. Fixture			
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'SO40/80-VARDM-OP-(XX²/LUMENS)

LUMENS = You provide the lumens.

XX¹ = We will determine the number of rows.

XX² = We will provide the wattage information.

Photometric Data @ 80 CRI

Use the multipliers below to adjust the delivered lumens

90 CRI multiplier	.83
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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.