VSA-LED

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

PRODUCT SPECIFICATION

The VSA is designed for general purpose, high abuse areas where an architectural look is required. Also for use in food areas, stairwells, locker rooms, showers, parking garages, and natatoriums.

Job Name

Fixture Type

Catalog No.

Approval Date

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.

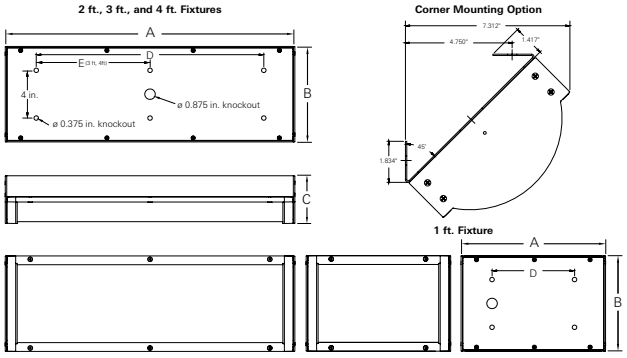
Gasket
Closed cell foam gasket continuously seals lens frame to housing for up to IP67 rating.

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.
IK10 designed and constructed for maximum impact protection.



Size	A	B	C	D	E
1 ft.	12.2"	8.0"	3.7"	7"	-
2 ft.	24.2"	8.0"	3.7"	19"	9.5"
3 ft.	36.2"	8.0"	3.7"	31"	15.5"
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
- 1 — 1 ft. fixture
- 2 — 2 ft. fixture
- 3 — 3 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

four — CRI
- 80 — 80 CRI
- 90 — 90 CRI

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*[1] — 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*[2] — 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)

*[1] *EM = Not available on 1 ft. fixture*
*[2] *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

LED Source (Box 2)	3000K		3500K		4000K		5000K		Input Watts
	Delivered Lumens	L/W	Delivered Lumens	L/W	Delivered Lumens	L/W	Delivered Lumens	L/W	
1ft. Fixture									
1W5	442	119	454	123	468	126	468	126	3.7
1W8	760	116	781	119	804	123	804	123	6.5
1W11	1061	112	1090	115	1123	119	1123	119	9.4
2W18	1725	115	1772	118	1825	122	1825	122	15.0
2W20	2123	112	2180	115	2246	119	2246	119	18.9
2W25	2506	110	2574	113	2652	116	2652	116	22.8
2ft. Fixture									
1W18	1745	117	1792	120	1846	124	1846	124	14.9
1W30	2750	112	2825	115	2911	118	2911	118	24.6
2W40	3903	116	4010	119	4131	123	4131	123	33.7
2W50	4913	113	5047	116	5199	120	5199	120	43.3
2W60	5885	111	6045	114	6229	117	6229	117	53.0
3ft. Fixture									
1W20	2005	120	2060	123	2122	127	2122	127	16.7
1W30	3060	116	3143	120	3239	123	3239	123	26.3
1W45	4254	112	4370	115	4502	119	4502	119	37.9
2W55	5290	118	5433	121	5598	125	5598	125	44.9
2W70	6529	116	6707	119	6910	123	6910	123	56.4
2W80	7532	114	7737	117	7971	121	7971	121	66.1
2W90	8508	112	8740	115	9004	119	9004	119	75.8
4ft. Fixture									
1W30	2896	120	2974	123	3065	127	3065	127	24.2
1W45	4165	117	4279	120	4408	124	4408	124	35.6
1W60	5577	114	5729	117	5902	120	5902	120	49.1
2W75	7075	118	7267	122	7488	125	7488	125	59.7
2W90	8537	117	8770	120	9035	124	9035	124	73.1
2W100	9962	115	10233	118	10543	122	10543	122	86.6
2W120	11934	113	12259	116	12630	119	12630	119	106.1

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[1]SO40/80-VARDM-OP-(XX[2]/LUMENS)

LUMENS = You provide the lumens.
XX[1] = We will determine the number of rows.
XX[2] = 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 or environmental abuse.