VSB-LED

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

PRODUCT SPECIFICATION

The VSB 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 contact 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.

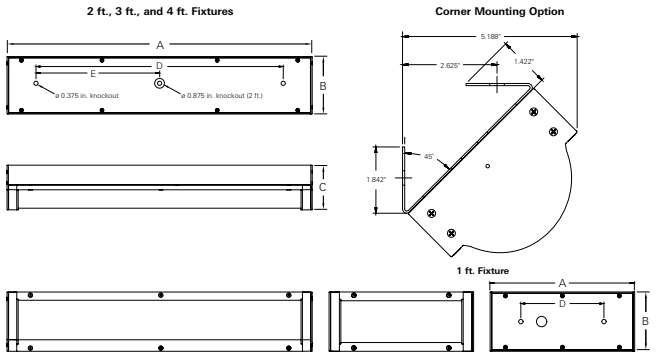
Gasket
Closed cell foam gasket continuously seals lens frame to housing for up to IP67 rating.

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"	5.0"	3.7"	7"	-
2 ft.	24.2"	5.0"	3.7"	18"	9"
3 ft.	36.2"	5.0"	3.7"	30"	-
4 ft.	48.2"	5.0"	3.7"	42"	21"

one	two	three	four	five	six	seven	eight	nine	ten	eleven
VSB		-		-	/	-	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
- AM — Anti-microbial coating (exposed areas)
- CM — Corner mounting bracket
- CU — Canadian UL Listing
- EM*[1] — Emergency battery backup
- FH — Fuse holder
- IMS*[2] — Integral Occ Sensor
- PM — Pendant mount
  Pendant supplied by others.
  Customer must provide mounting hole template.
- PC — Photocell
- RMxx*[3] — 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] IMS = Not available on 1 ft. fixture
*[3] 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	
1 ft. Fixture									
1W4	394	106	405	109	417	113	417	113	3.7
1W7	678	104	696	106	717	110	717	110	6.5
1W10	946	100	972	103	1002	106	1002	106	9.4
2 ft. Fixture									
1W16	1556	104	1598	107	1647	110	1647	110	14.9
1W20	1923	102	1975	105	2035	108	2035	108	18.8
1W25	2279	101	2341	103	2412	107	2412	107	22.6
1W27	2624	99	2696	102	2777	105	2777	105	26.5
3 ft. Fixture									
1W20	1966	106	2019	108	2080	112	2080	112	18.6
1W27	2526	104	2594	107	2673	110	2673	110	24.4
1W30	3068	102	3152	105	3247	108	3247	108	30.1
1W40	3765	99	3868	102	3985	105	3985	105	37.9
4 ft. Fixture									
1W27	2563	106	2633	109	2712	112	2712	112	24.2
1W35	3318	104	3408	107	3511	110	3511	110	31.8
1W40	4050	103	4161	105	4287	109	4287	109	39.5
1W50	4762	101	4891	104	5039	107	5039	107	47.2
1W55	5281	100	5425	102	5589	105	5589	105	53.0

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:
VSB2-**1W**SO40/80-VARDM-OPWH-TP65-(**XXXX**)

1W = We will determine the number of rows.
LUMENS = XXXX

Photometric Data @ 80 CRI

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.