

Series Spec Sheet

VN8-L GEN 2

8' LED VAPOR TIGHT

Specification Grade Multi-Purpose Luminaire Optional Emergency Remote

The LED VN series of sealed 8' linear luminaires are for use in both indoor and outdoor applications. Ideal for food processing and beverage plants, refrigerated storage, schools and parking garages. Appropriate for environments that may require: washability/hose down, complete containment of the LEDs, the ability to withstand reduced temperatures and moderate impact. Seals dust out.

FEATURES AND SPECIFICATIONS

• Applications

- Food processing facilities
- Commercial kitchens
- Breweries and bottling facilities
- Industrial facilities
- Livestock containment buildings
- Parking garages
- Under awnings
- Exterior retail areas
- Marinas and offshore
- Pedestrian tunnels
- Pools

• Construction

Housing

- The housing is constructed from a one piece glass reinforced white fiberglass and impact resistant acrylic lens
- A closed cell, high temperature poured in place gasket and polycarbonate latches seal the enclosure from most hostile environments

Lens

The fixture comes standard with an impact resistant acrylic ribbed frosted lens.

• Specifications

- Wash down design
- LED technology for long term energy savings
- The luminaire enclosure was found to be in compliance with the indicated requirements of Enclosures for Electrical Equipment NEMA 4X

Driver

- 120 V, 120 V-277 V, 347 V
- 0-10V dimming driver. Dimming cables sold separately, see ordering guide
- 2.5 kV surge protection (standard). See options table for additional surge protection

Operating temperature

-40°C to +40°C (-40°F to 104°F)
 DL: 0°C to +25°C (32°F to 77°F)

Mounting

Stainless steel ceiling mounting brackets and mounting bail brackets for suspended mount included. Wall mounting bracket as an option.

• Emergency Lighting Compliances

- CSA certified as a C22.2 C141-15 emergency lighting luminaire
- Meets ICES-005 requirements

• General Lighting Compliances

- Premium grade
- IP66, IP67
- 1500 PSI: High pressure hose down test (1.3 gallon per minute for 3 minutes at 1.5-2.0' from the unit) to maintain the integrity of the fixture.
- No water ingress is allowed
- NSF
- NEMA 4X
- Meets requirements of ICES-005
- UL1598, UL8750
- CSA Certified to C22.2 #250.0, #250.13
- cCSAus
- CSA Certified to C22.2 #141-15 (When use with DL and EL options)
- DLC Premium, DLC Standard
- BC Hydro

OVERVIEW

Light source	LED
Watts (W)	52 - 187
Lumen output (lm)	7 304 - 26 180
Efficacy (lm/W)	130 - 152
Color temperature (K)	3 000, 3 500, 4 000, 5 000
CRI	80+
Weight (lbs)	17



premium
grade



LED
fixture



wet
location



ICCS
005



Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/search.

ORDERING GUIDE

VN8	L		80			
Series	Lamp type	Lumen package (lm)	CRI	Volts (V)	Color temp. (K)	Options
VN8	L - LED	S1B - S2B - S3B - S4B - S5B -	80 - 80+	A - 120 H - 347 W - 120-277	30K - 3 000 35K - 3 500 40K - 4 000 50K - 5 000	L6 - 6' white power cable length L10 - 10' white power cable length L6-BK - 6' black power cable length L10-BK - 10' black power cable length SS - Stainless steel latches (set of 10pcs) KV - 10kV Surge protector TP ¹ - Vandal Resistant Kit (includes 6pcs tamper proof screws) DL ^{2,8} - Emergency backup 120 V and 120-277 V only DIM1 ³ - 5 wire cable for AC and 0-10 V dimming DIM2 ⁴ - Leading edge dimming 120 V only SCAL - Smooth clear acrylic lens SFAL - Smooth frosted acrylic lens SCPL - Smooth clear polycarbonate lens SFPL - Smooth frosted polycarbonate lens OS ⁵ - Occupancy sensor AC ⁶ - Aviation cable kit RGB-45 ⁷ - Mount bracket (45°)

¹ Tamper proof bit (HAR06-TPBIT-UDR) included per order. Please consult the accessory table to order additional quantities.

² Fixture functional in AC mode, when power goes off emergency battery back-up powers LED boards. One emergency battery back-up per fixture is standard unless otherwise specified.

³ When selecting DIM1 option please also select cable option whether L6, L10, L6-BK or L10-BK. DL option is not compatible with DIM1.

⁴ DIM2 is for S1B, S2B and S3B lumen packages.

⁵ To see available options, please consult the occupancy sensors section.

⁶ Aviation cable length based on selected power cable length

⁷ Horizontal wall mount.

⁸ When selecting DL, RMP-05 and RMP-075 options, the fixture maintains wet location status, however NEMA 4X and IP ratings are no longer applicable.

TECHNICAL SPECIFICATION TABLE¹

Lumen package	Watts (W)	Volts (V)	3 000 K		3 500 K		4 000 K		5 000 K		CRI	Life L70 (hrs)	Tested hours LM-80 (hrs)	Power factor	THD (%)
			Lumen (lm)	Efficacy (lm/W)	Lumen (lm)	Efficacy (lm/W)	Lumen (lm)	Efficacy (lm/W)	Lumen (lm)	Efficacy (lm/W)					
S1B	52	120-277 347	7 304	141	7 545	146	7 720	149	7 844	152	80+	>54 000	9 000	0.95	7
S2B	70		9 437	135	9 748	140	9 975	143	10 140	145				0.97	8
S3B	98		13 150	134	13 580	139	13 900	142	14 120	144				0.98	10
S4B	125		16 570	132	17 120	136	17 520	140	17 780	142				0.97	10
S5B	187		24 370	130	25 180	135	25 760	138	26 180	140				0.98	10

¹ Lumen values are based on standard acrylic ribbed frosted lens. For other lens options, please refer to IES files

DLC UNIQUE ID TABLE

DLC Family Code	Certified	Primary Designation(s)
LLLCIP	Premium	Stairwell and Passageway Luminaires
		High-Bay Luminaires for Commercial and Industrial Buildings ¹
	Standard	Low-Bay Luminaires for Commercial and Industrial Buildings ² Direct Linear Ambient Luminaires

¹ LS3B, LS4B, LS5B lumen packages only

² LS1B and LS2B lumen packages only

ACCESSORIES (order separately)

Order code	Type
HAR06-TPBIT-UDR	Tamper Proof 2" Steel Power Bit (1pc)

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions.
All products are subject to change or may be discontinued any time without notice.

OCCUPANCY SENSORS

ON-OFF SENSORS

Detection - On at (Detection Area) % during (Hold Time) min. Off

Part number	Position	Volts (V)	Technology	Height (ft)	Detection Area (%)	Hold time (min)	Daylight min level (lux)	Remote ¹	Location ² (°C)
OSE-PO-0301	External	120-347	PIR	20-40	100	20	N/A	N/A	Dry, -10 to +40
OSE-PO-0501	External	120-347	PIR	15-40	100	15	3 000	OSI-FSIR-100	Dry, 0 to +40
OSE-PO-0502	External	120-347	PIR	15-40	100	15	3 000	N/A	Dry, 0 to +40
OSE-PO-0701	External	120-277	PIR	20	100	15	N/A	N/A	Wet, -40 to +40
OSE-PO-0801	External	347	PIR	20	100	15	N/A	N/A	Wet, -40 to +40
OSI-FO-0301	Internal	120-277	High frequency	32 max	100	20	Disable	N/A	Dry and wet, -25 to +40
OSI-FO-0601	Internal	120-347	High frequency	25 max	100	30	Disable	68681	Dry and wet, -35 to +40
OSI-FO-0602	Internal	120-347	High frequency	25 max	100	15	Disable	68681	Dry and wet, -35 to +40
OSI-FO-0603	Internal	120-347	High frequency	25 max	100	15	100	68681	Dry and wet, -35 to +40

B

BI-LEVEL SENSORS

Detection - On at (Detection Area) % during (Hold Time) min., then (Stand-by Dim level) %

Part number	Position	Volts (V)	Technology	Height (ft)	Detection Area (%)	Hold time (min)	Stand-by Dim level (%)	Daylight min level (lux)	Remote ¹	Location ² (°C)
OSE-PB-0202	External	120-347	PIR	20	100	30	40	Disable	OSI-FSIR-100	Wet, -40 to +40
OSI-FB-0301	Internal	120-277	High Frequency	32 max	100	20	30	Disable	N/A	Dry and wet, -25 to +40
OSI-FB-0302	Internal	120-277	High Frequency	32 max	100	20	10	Disable	N/A	Dry and wet, -25 to +40
OSI-FB-0303	Internal	120-277	High Frequency	32 max	100	20	50	Disable	N/A	Dry and wet, -25 to +40
OSE-FB-0402	External	120-347	High Frequency	50 max	100	20	30	50	OSI-RC-MH10	Wet, -35 to +40
OSI-FB-0603	Internal	120-347	High Frequency	25 max	100	15	40	Disable	68681	Dry and wet, -35 to +40
OSI-FB-0604	Internal	120-347	High Frequency	25 max	100	30	40	Disable	68681	Dry and wet, -35 to +40
OSI-FB-0605	Internal	120-347	High Frequency	25 max	100	15	30	Disable	68681	Dry and wet, -35 to +40
OSI-FB-0606	Internal	120-347	High Frequency	25 max	100	15	10	Disable	68681	Dry and wet, -35 to +40

TRI-LEVEL SENSORS

Detection - On at (Detection Area) % during (Hold Time) min., then (Stand-by Dim level) % during (Stand-by period) min. Off

Part number	Position	Volts (V)	Technology	Height (ft)	Detection Area (%)	Hold time (min)	Stand-by Dim level (%)	Stand-by period (min)	Daylight min level (lux)	Remote ¹	Location ² (°C)
OSI-FT-0301	Internal	120-277	High Frequency	32 max	100	20	30	10	Disable	N/A	Dry and wet, -25 to +40
OSE-FT-0402	External	120-347	High Frequency	50 max	100	30	30	10	50	OSI-RC-MH10	Wet, -35 to +40
OSI-FT-0601	Internal	120-347	High Frequency	25 max	100	30	30	10	Disable	68681	Dry and wet, -35 to +40

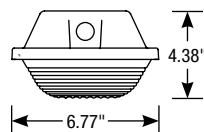
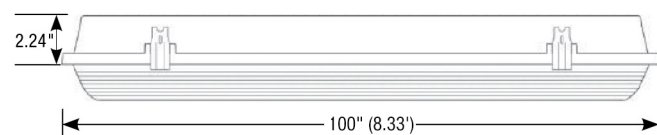
¹ To be ordered separately.

² Min and max ambient temperature of the fixture with the specific sensor. Please verify fixture temperature on the first page for compatibility with sensor.

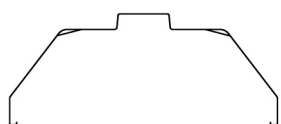
For more settings visit
www.standardpro.com/documentation/technical-information/

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DIMENSIONS



CEILING MOUNTING BRACKETS

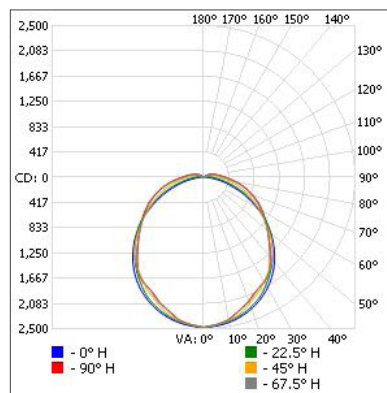


BAIL BRACKETS

PHOTOMETRIC DATA¹

VN8-LS1B-80-(A/H/W)/40K • 7 718 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1 868.3	24.2
0-40	3 058.4	39.6
0-60	5 396.2	69.9
60-90	1 898.7	24.6
70-100	1 208.0	24.6
90-120	385.2	5
0-90	7 294.9	94.5
90-180	423.4	5.5
0-180	7 718.3	100

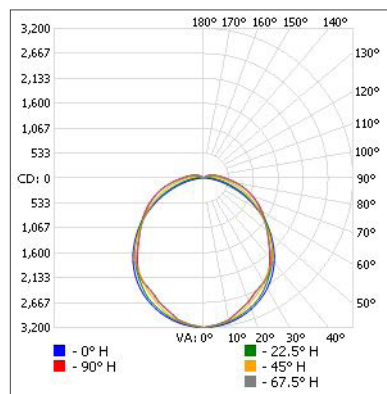
Illuminance at a distance

Center beam fc	Beam width
1.7'	856
3.3'	227
5.0'	99.0
6.7'	55.1
8.3'	35.9
10.0'	24.7

Vert. spread: 110.4°
Horiz. spread: 110.7°

VN8-LS2B-80-(A/H/W)/40K • 9 972 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	2 413.8	24.2
0-40	3 951.4	39.6
0-60	6 971.7	69.9
60-90	2 453.1	24.6
70-100	1 560.7	15.7
90-120	497.7	5
0-90	9 424.7	94.5
90-180	547.0	5.5
0-180	9 971.8	100

Illuminance at a distance

Center beam fc	Beam width
1.7'	1 106
3.3'	294
5.0'	128
6.7'	71.2
8.3'	46.4
10.0'	32.0

Vert. spread: 110.4°
Horiz. spread: 110.7°

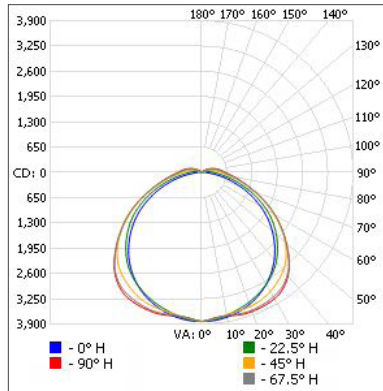
¹ Complete IES files available on our website.

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PHOTOMETRIC DATA¹

VN8-LS3B-80-(A/H/W)/40K • 13 894 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	3 076.5	22.1
0-40	5 201.4	37.4
0-60	9 639.0	69.4
60-90	3 465.9	24.9
70-100	2 162.5	15.6
90-120	726.2	5.2
0-90	13 104.9	94.3
90-180	789.4	5.7
0-180	13 894.3	100

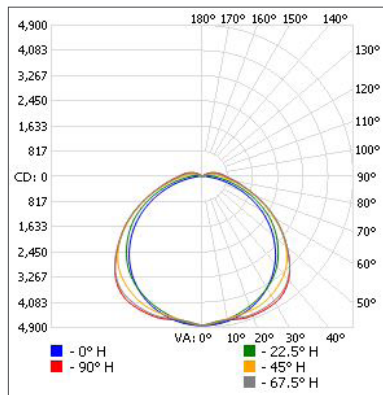
Illuminance at a distance

Center beam fc	Beam width
1.7'	1 325
3.3'	352
5.0'	153
6.7'	85.3
8.3'	55.6
10.0'	38.3

Vert. spread: 115.3°
Horiz. spread: 127.0°

VN8-LS4B-80-(A/H/W)/40K • 17 516 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	3 878.4	22.1
0-40	6 557.1	37.4
0-60	12 151.4	69.4
60-90	4 369.3	24.9
70-100	2 726.1	15.6
90-120	915.5	5.2
0-90	16 520.7	94.3
90-180	995.1	5.7
0-180	17 515.9	100

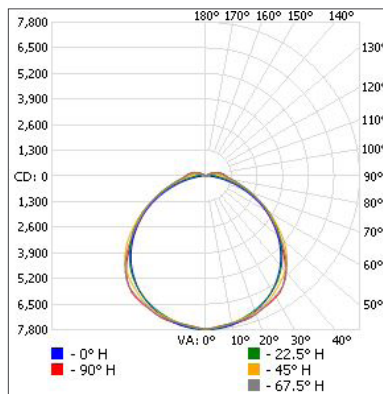
Illuminance at a distance

Center beam fc	Beam width
1.7'	1 670
3.3'	443
5.0'	193
6.7'	108
8.3'	70.1
10.0'	48.3

Vert. spread: 115.3°
Horiz. spread: 127.0°

VN8-LS5B-80-(A/H/W)/40K • 25 758 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	6 144.4	23.9
0-40	10 257.4	39.8
0-60	18 425.1	71.5
60-90	5 926.5	23
70-100	3 653.1	14.2
90-120	1 292.2	5
0-90	24 351.5	94.5
90-180	1 406.6	5.5
0-180	25 758.1	100

Illuminance at a distance

Center beam fc	Beam width
1.7'	2 693
3.3'	715
5.0'	311
6.7'	173
8.3'	113
10.0'	77.8

Vert. spread: 114.4°
Horiz. spread: 114.2°

¹ Complete IES files available on our website.

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