

Series spec sheet

VN4-L

4' LED VAPOUR TIGHT

Specification grade multi-purpose luminaire

The VN series of sealed 4' linear luminaires are for use in for both indoor and outdoor applications. Ideal for food processing and beverage plants, refrigerated storage, schools, parking garages etc.. Appropriate for those applications that may require: washability/hose down, complete containment of the LEDs, the ability to withstand reduced temperatures and withstand moderate impact. Seals dust out.

FEATURES AND SPECIFICATIONS

• Applications

- Food processing facilities
- Commercial kitchens
- Breweries and bottling facilities
- Livestock containment buildings
- Under awnings
- Exterior retails 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 acetal polyoxymethylene (POM) latches seal the enclosure from most hostile environments

Lens

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

• LINK

This unit can be used as an emergency backup unit powered by battery.

Please view the LINK brochure for more details on this technology.

• 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, 120-277 V, 347 V
- 0-10 V dimming driver standard (down to 1%)

Ambient temperature

- 40°C to +40°C
- DL: 0°C to +25°C
- LINK: -40°C to +35°C

Mounting

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

• Compliances

- Suitable for wet and damp locations
- 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)



OVERVIEW

Light source	LED
Watts (W)	30 - 79
Lumen output (lm)	3 797 - 10 047
Efficiency (lm/W)	117 - 143
Color temperature (K)	3 000/3 500/4 000/5 000
CRI	80+
Weight (lbs)	13



link compatible



premium grade



LED fixture



wet location



ICES 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

Series	Lamp type	Lumen package (lm)	Volts (V)	Color temp. (K)	Options
VN4	L - LED	S1A - Refer to the technical specification table for more details S2A - S3A - S4A -	A - 120 H - 347 W - 120-277	30K - 3 000 35K - 3 500 40K - 4 000 50K - 5 000	L6 - 6' white power cord L10 - 10' white power cord L6-BK - 6' black power cord L10-BK - 10' black power cord SS - Stainless steel latches KV - 10 kV surge protector TP - Vandal resistant screws DL ¹ - Emergency back up 120 V and 120-277 V only DIM1 ² - 5 wire cable for AC and 0-10 V dimming DIM2 ³ - Leading edge dimming 120 V only PC - Polycarbonate ribbed frosted lens SCAL - Smooth clear acrylic lens SFAL - Smooth frosted acrylic lens SCPL - Smooth clear polycarbonate lens SFPL - Smooth frosted polycarbonate lens OS ⁴ - Occupancy sensor AC - Aviation cable kit HRCI ⁵ - High CRI 90+ EL ⁶ - LINK RMP-05 - For rigid mono point with 3/4" (1/2 npt) center hole drilled on fixture RMP-075 - For rigid mono point with 1" (3/4 npt) center hole drilled on fixture RGB-45 ⁷ - 45° mount bracket

¹ Fixture functional in AC mode, when power goes off emergency bodine powers LED boards. One bodine per fixture is standard unless otherwise specified. With the DL option, LS1A and LS2A lumens packages and DIM2 option are not DLC certified. Not compatible with the following options: EL, RMP-05, RMP-075.

² When selecting DIM1 option please also select cable option whether L6, L10, L6-BK or L10-BK.

³ DIM2 is for S1A, S2A and S3A lumen packages.

⁴ To see available options, please consult the occupancy sensors section.

⁵ HCRI option may decrease lumen output from 15% to 19% depending on the CCT.

⁶ The LINK Emergency Power conversion module is compatible with the following configuration only: LS1A, LS2A, LS3A. Not compatible with the following options: DL, EH, OS (external), RMP-05, RMP-075.

⁷ Horizontal wall mount or ceiling mount.

TECHNICAL SPECIFICATION TABLE

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)	Efficiency (lm/W)	Lumen (lm)	Efficiency (lm/W)	Lumen (lm)	Efficiency (lm/W)	Lumen (lm)	Efficiency (lm/W)					
S1A	31	120-277 347	3 797	124	3 889	127	3 999	130	4 141	135	80+	189 000	10 000	0.97	11
S2A	40		5 223	131	5 349	134	5 500	138	5 695	143	80+	189 000	10 000	0.97	11
S3A	60		7 314	123	7 490	126	7 703	130	7 976	134	80+	189 000	10 000	0.98	9
S4A	79		9 212	117	9 435	120	9 703	124	10 047	128	80+	189 000	10 000	0.98	10

LINK TECHNICAL SPECIFICATION TABLE

Lumen package	LINK Watts (W)	3 000 K	3 500 K	4 000 K	5 000 K
		LINK lumen output (lm)	LINK lumen output (lm)	LINK lumen output (lm)	LINK lumen output (lm)
S1A	11	1 467	1 467	1 525	1 573
S2A		1 462	1 462	1 521	1 567
S3A		1 462	1 462	1 521	1 567

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	NA		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		Dry, 0 to +40
OSE-PO-0701	External	120-277	PIR	20	100	15	NA		Wet, -40 to +40
OSE-PO-0801	External	347	PIR	20	100	15	NA		Wet, -40 to +40
OSI-FO-0301	Internal	120-277	High frequency	32 max	100	20	Disable		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		Dry and wet, -25 to +40
OSI-FB-0302	Internal	120-277	High Frequency	32 max	100	20	10	Disable		Dry and wet, -25 to +40
OSI-FB-0303	Internal	120-277	High Frequency	32 max	100	20	50	Disable		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		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

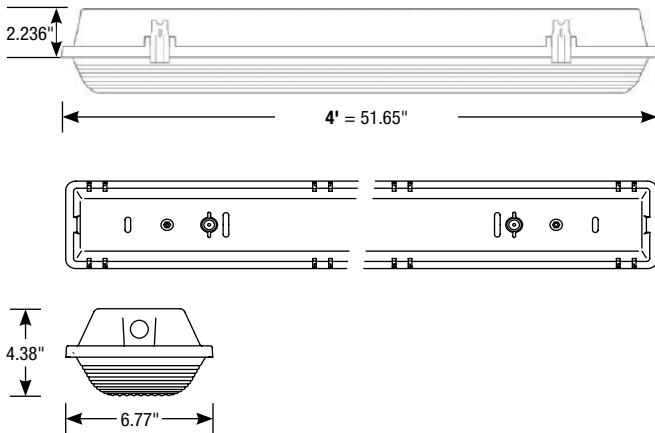
¹ To be ordered separately.

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/

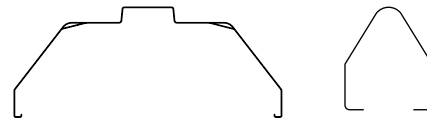
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DIMENSIONS



CEILING MOUNTING BRACKETS

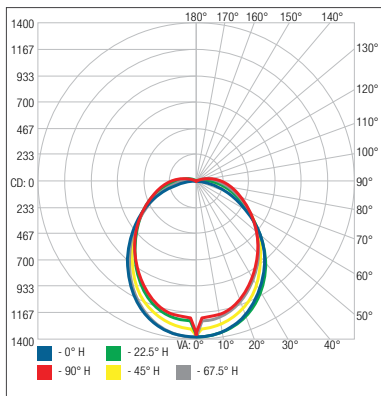
BAIL BRACKETS



PHOTOMETRIC DATA¹

VN4-LS1A-(W/H)/40K • 3 997.6 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	993.3	24.8
0-40	1 603.5	40.1
0-60	2 778.8	69.5
60-90	970.4	24.3
70-100	639.4	16
90-120	227.2	5.7
0-90	3 749.2	93.8
90-180	248.4	6.2
0-180	3 997.6	100

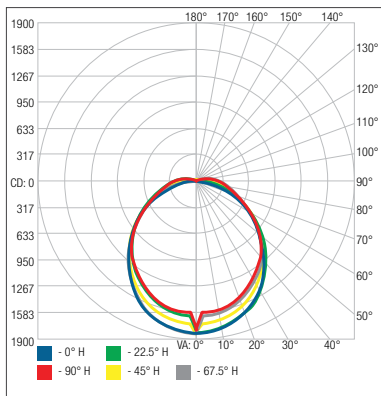
Illuminance at a distance

Center beam fc		Beam width	
1.7'	476	4.3'	4.2'
3.3'	126	8.4'	8.1'
5.0'	55.0	12.7'	12.2'
6.7'	30.6	17.1'	16.4'
8.3'	20.0	21.2'	20.3'
10.0'	13.8	25.5'	24.5'

■ Vert. spread: 103.8°
■ Horiz. spread: 101.5°

VN4-LS2A-(W/H)/40K • 5 499.0 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1 329.2	24.2
0-40	2 171.5	39.5
0-60	3 820.8	69.5
60-90	1 334.0	24.3
70-100	879.4	16
90-120	322	5.9
0-90	5 154.9	93.7
90-180	344.2	6.3
0-180	5 499.0	100

Illuminance at a distance

Center beam fc		Beam width	
1.7'	631	4.6'	4.5'
3.3'	167	9.0'	8.8'
5.0'	73.0	13.6'	13.3'
6.7'	40.6	18.3'	17.8'
8.3'	26.5	22.6'	22.0'
10.0'	18.2	27.3'	26.6'

■ Vert. spread: 107.5°
■ Horiz. spread: 106.0°

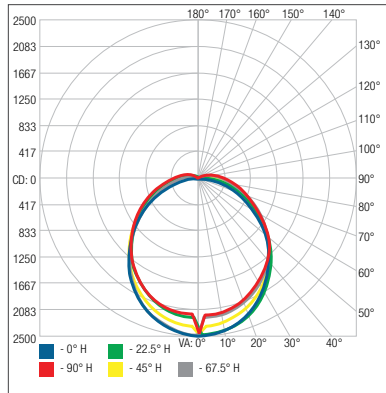
¹ Complete IES files available on our website.

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PHOTOMETRIC DATA¹ (cont'd)

VN4-LS3A-(W/H)/40K • 7 701.4 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1 810.5	23.5
0-40	2 963.8	38.5
0-60	5 263.4	68.3
60-90	1 937.2	25.2
70-100	1 291.9	16.8
90-120	464.6	6
0-90	7 200.6	93.5
90-180	500.8	6.5
0-180	7 701.4	100

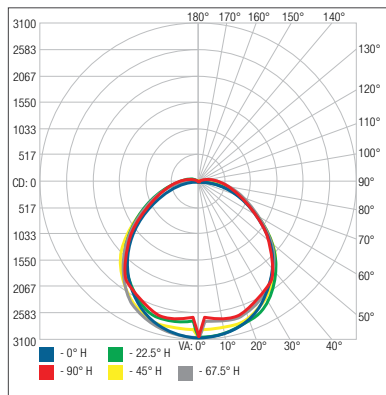
Illuminance at a distance

Center beam fc		Beam width	
1.7'	857	4.5'	5.0'
3.3'	227	8.8'	9.8'
5.0'	99.1	13.4'	14.8'
6.7'	55.2	17.9'	19.9'
8.3'	36.0	22.2'	24.6'
10.0'	24.8	26.7'	29.7'

■ Vert. spread: 106.4°
■ Horiz. spread: 112.0°

VN4-LS4A-(W/H)/40K • 9 701.5 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	2 334.6	24.1
0-40	3 874.4	39.9
0-60	6 898.7	71.1
60-90	2 277.4	23.5
70-100	1 432.8	14.8
90-120	488.4	5
0-90	9 176.1	94.6
90-180	525.4	5.4
0-180	9 701.5	100

Illuminance at a distance

Center beam fc		Beam width	
1.7'	1054	4.8'	4.8'
3.3'	280	9.4'	9.4'
5.0'	122	14.2'	14.2'
6.7'	67.8	19.0'	19.0'
8.3'	44.2	23.6'	23.5'
10.0'	30.5	28.4'	28.3'

■ Vert. spread: 109.7°
■ Horiz. spread: 109.6°

¹ Complete IES files available on our website.

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