

Project:		Type:
Drawn by:	Catalogue #:	Date:

VN4-L GEN 2

4' LED VAPOR TIGHT

Specification Grade Multi-Purpose Luminaire

Optional Emergency Remote

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 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
- 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
- A closed cell, high temperature poured in place gasket and acetal polyoxymethylene (POM) latches seal the enclosure from most hostile environments

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

- 120 V, 120-277 V, 347 V
- 0-10V dimming driver (down to 1%). Dimming cables sold separately, see ordering guide

Operating temperature

-40°C to +40°C (-40°F to 104°F) DL: 0°C to +25°C (+32°F to +77°F) LINK: -40° C to $+40^{\circ}$ C (-40° F to 104° F)

Mounting

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

Optional Emergency Lighting

LINK Normally ON LED Vapor Tight Luminaire

- Consuming 11 W, 12 24 VDC
- 200 mA constant current
- Delivers 1 179 to 1 364 lumens in emergency
- Ease of maintenance when used with Stanpro emergency lighting battery units complete with auto test function
- Complements Stanpro's Normally ON LED Vapor Tight family
- Patent pending

Please view the LINK specification section for more details on this technology

• Emergency Lighting Compliances

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

• General Lighting Compliances

- Premium grade
- 1 500 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
- UI 1598, UI 8750
- CSA Certified to C22.2 #250.0, #250.13
- CSA Certified to C22.2 #141-15 (When use with DL and EL options)
- DLC Premium

OVERVIEW

Light source	LED	
Watts (W)	27 - 93	
Lumen output (lm)	3 652 - 13 090	
Efficacy (Im/W)	127 - 145	
Color temperature (K)	3 000, 3 500, 4 000, 5 000	
CRI	80+, 90+	
Weight (lbs)	13	















wet location

66















¹ 5 year warranty for the LINK module.

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

VN4 -	- L		_	/	/		
Series	Lamp	Lumen	CRI	Volts	Color temp.		Options
	type	package		4.0	40		
		(lm)		(V)	(K)		
VN4	L - LED	1		A - 120	30K - 3 000		6' white power cable length
		S2B - technical		H - 347	35K - 3 500		10' white power cable length
		S3B - \rightarrow specification		W - 120-277	40K - 4 000	L6-BK -	6' black power cable length
		S4B - table for			50K - 5 000	L10-BK -	10' black power cable length
		S5B - more details				SS -	Stainless steel latches
						KV -	10kV surge protector
						TP1 -	Vandal Resistant Kit (includes 6pcs screws)
						DL ^{2, 11} -	AC and Emergency backup (from 0°C - 25°C) 120 V, 120-277 V
						DIM1 ³ -	5 wire cable for AC and 0-10 V dimming
						DIM2 ⁴ -	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
						0S ⁵ -	Occupancy sensor
						AC ⁶ -	Aviation cable kit
						EL ⁸ -	LINK Normally ON Emergency Remote
						RMP-05 ^{9,11} -	Rigid mono point on the luminaire with 3/4" center hole for 1/2 NPT conduit
						RMP-075 ^{9, 11}	-Rigid mono point on the luminaire with 1" center hole for 3/4 NPT conduit
						RGB-45 ¹⁰ -	45° mount bracket

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

1014

- ² Fixture functional in AC mode, when power goes off emergency bodine powers LED boards. One bodine per fixture is standard unless otherwise specified. Not compatible with the following options: EL, RMP-05, RMP-075.
- 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 90 CRI option may decrease lumen output from 15% to 19% depending on the CCT.
- 8 The LINK Emergency Power conversion module is compatible with all the following all configurations: LS1B, LS2B, LS3B, LS4B, LS5B. Not compatible with the following options: DL, EH, OS (external), RMP-05, RMP-075. When in Emergency Mode, luminaire only consumes 11W.
- 9 RMP-05 and RMP-075 are not available for LS5B lumen package.
- ¹⁰ Horizontal wall mount or ceiling mount.
- 11 NEMA 4X certification and IP rating are not applicable when selecting DL, RMP-05 and RMP-075 options.

For emergency lighting spacing, please see page 5.

TECHNICAL SPECIFICATION TABLE

Lumen	Watts	Volts	3 00	00 K	3 50	00 K	4 0	00 K	5 0	00 K	CRI	Life	Tested hours	Power	THD
package	(W)	(V)	Lumen (Im)	Efficacy (Im/W)	Lumen (Im)	Efficacy (Im/W)	Lumen (Im)	Efficacy (Im/W)	Lumen (lm)	Efficacy (Im/W)		L70 (hrs)	LM-80 (hrs)	factor	(%)
S1B	27		3 652	135	3 773	139	3 860	142	3 922	145				0.94	13
S2B	37	120-277	4 718	127	4 874	132	4 987	135	5 068	137				0.92	15
S3B	50		6 574	133	6 791	137	6 948	140	7 060	142	80+	>54 000	9 000	0.92	9
S4B	62	347	8 286	133	8 560	138	8 759	141	8 900	143]			0.97	10
S5B	93		12 190	130	12 590	135	12 880	138	13 090	140]			0.98	7

LINK TECHNICAL SPECIFICATION TABLE

Lumen package	LINK Watts (W)	LINK Watts (W)	3 000 K Lumen output (Im)	3 500 K Lumen output (Im)	4 000 K Lumen output (Im)	5 000 K Lumen output (Im)
	(**)	(**)	(1111)	(1111)	(1111)	(1111)
LS1B	31		1 270	1 312	1 342	1 364
LS2B	40		1 2/0	1 312	1 342	1 304
LS3B	60	11	4.470	1 218	1 046	1.000
LS4B	79		1 179	1 210	1 246	1 266
LS5B	93		1 258	1 300	1 330	1 351





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)
0SE-P0-0301	External	120-347	PIR	20-40	100	20	N/A	N/A	Dry, -10 to +40
OSE-P0-0501	External	120-347	PIR	15-40	100	15	3 000	OSI-FSIR-100	Dry, 0 to +40
0SE-P0-0502	External	120-347	PIR	15-40	100	15	3 000	N/A	Dry, 0 to +40
0SE-P0-0701	External	120-277	PIR	20	100	15	N/A	N/A	Wet, -40 to +40
0SE-P0-0801	External	347	PIR	20	100	15	N/A	N/A	Wet, -40 to +40
0SI-F0-0301	Internal	120-277	High frequency	32 max	100	20	Disable	N/A	Dry and wet, -25 to +40
0SI-F0-0601	Internal	120-347	High frequency	25 max	100	30	Disable	68681	Dry and wet, -35 to +40
0SI-F0-0602	Internal	120-347	High frequency	25 max	100	15	Disable	68681	Dry and wet, -35 to +40
0SI-F0-0603	Internal	120-347	High frequency	25 max	100	15	100	68681	Dry and wet, -35 to +40

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
0SI-FB-0301	Internal	120-277	High Frequency	32 max	100	20	30	Disable	N/A	Dry and wet, -25 to +40
0SI-FB-0302	Internal	120-277	High Frequency	32 max	100	20	10	Disable	N/A	Dry and wet, -25 to +40
0SI-FB-0303	Internal	120-277	High Frequency	32 max	100	20	50	Disable	N/A	Dry and wet, -25 to +40
0SE-FB-0402	External	120-347	High Frequency	50 max	100	20	30	50	OSI-RC-MH10	Wet, -35 to +40
0SI-FB-0603	Internal	120-347	High Frequency	25 max	100	15	40	Disable	68681	Dry and wet, -35 to +40
0SI-FB-0604	Internal	120-347	High Frequency	25 max	100	30	40	Disable	68681	Dry and wet, -35 to +40
0SI-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	Technology	Height	Detection	Hold time	Stand-by	Stand-by	Daylight min	Remote ¹	Location ²
		(V)		(ft)	Area (%)	(min)	Dim level (%)	period (min)	level (lux)		(°C)
0SI-FT-0301	Internal	120-277	High Frequency	32 max	100	20	30	10	Disable	N/A	Dry and wet, -25 to +40
0SE-FT-0402	External	120-347	High Frequency	50 max	100	30	30	10	50	OSI-RC-MH10	Wet, -35 to +40
0SI-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.

For more settings visit

www.standardpro.com/documentation/technical-information/



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.



LINK

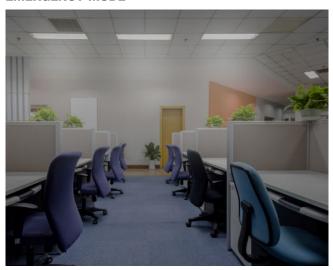
NORMALLY ON EMERGENCY REMOTE LUMINAIRE

This luminaire can be used with an emergency backup powered by either a 12 V or 24 V DC Stanpro battery unit, complete with or without auto test.

NORMAL MODE



EMERGENCY MODE



TYPICAL SPECIFICATION

Supply and install Stanpro LINK _____ft, LED vapor tight luminaire, Model number: ______ remote normally ON emergency luminaire, CSA C22.2 141-15 certified and meet the requirements prescribed by ICES-005. Normally ON when AC is present and when connected to a Stanpro battery unit complete with or without auto test, the luminaire shall act as an emergency lighting remote and consume 11 W of DC power in _____ V producing 1 462 - 1 573 lumens in emergency mode.

The remote normally ON emergency luminaire shall be powered by a Stanpro emergency lighting battery unit as described herein and shown on the drawings. The Stanpro auto diagnostic micro-controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120 V, 277 V or 347 V, 60 Hz and be CSA listed. The unit shall have an output of: __V and __W. The charge voltage factory set to ± 1% tolerance. High Efficacy, rapid recovery, precision control charging system shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, when the battery is at full capacity, the charger will shut-off. Periodically the charger shall provide a pulse of energy to keep the battery topped off. The pulse charger shall be precisely regulated and shall charge the battery in relation to its temperature, state or charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load when the battery reaches the end of discharge.

The automated testing performed by the Stanpro auto test system has been designed to comply with all of the requirements of the National Fire Code. Every month, a 5 minute discharge and diagnostic test checks the operational status of the unit. Every 12 months, this test is extended to the full 30 minute, code required duration. This ensures that the battery charger is recharging the battery in accordance with code requirements.

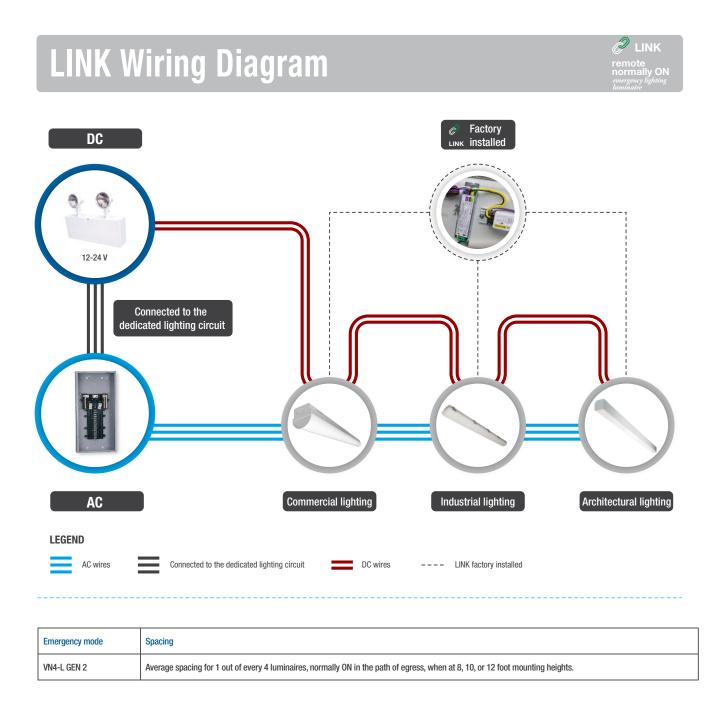
The unit shall be Stanpro model: SL

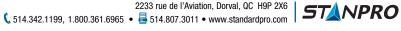




LINK

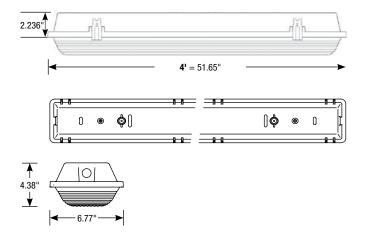
NORMALLY ON EMERGENCY REMOTE LUMINAIRE

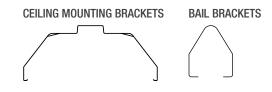






DIMENSIONS

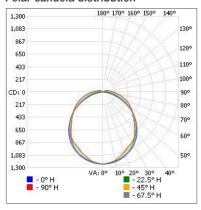




PHOTOMETRIC DATA¹

VN4-LS1B-80-(A/H/W)/40K • 3 859 Im

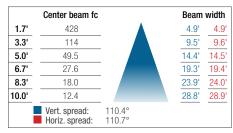
Polar candela distribution



Zonal lumen summary

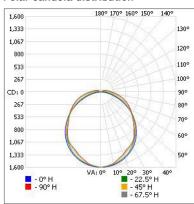
Zone	Lumens	% Fixture
0-30	934.2	24.2
0-40	1 529.2	39.6
0-60	2 698.1	69.9
60-90	949.4	24.6
70-100	604.0	24.6
90-120	192.6	5
0-90	3 647.4	94.5
90-180	211.7	5.5
0-180	3 859.1	100

Illuminance at a distance



VN4-LS2B-80-(A/H/W)/40K • 4 986 Im

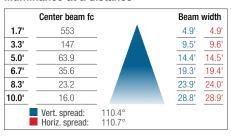
Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture		
0-30	1 206.9	24.2		
0-40	1 975.7	39.6		
0-60	3 485.5	69.9		
60-90	1 226.5	24.6		
70-100	780.4	15.7		
90-120	248.8	5		
0-90	4 712.4	94.5		
90-180	273.5	5.5		
0-180	4 985.9	100		

Illuminance at a distance





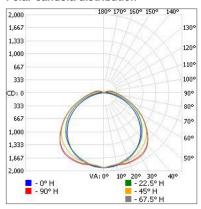
¹ Complete IES files available on our website.



PHOTOMETRIC DATA¹

VN4-LS3B-80-(A/H/W)/40K • 6 947 Im

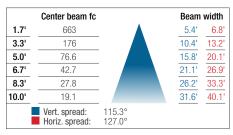
Polar candela distribution



Zonal lumen summary

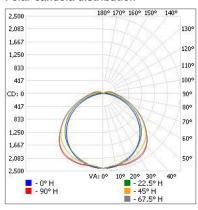
	•						
Zone	Lumens	% Fixture					
0-30	1 538.2	22.1					
0-40	2 600.7	37.4					
0-60	4 819.5	69.4					
60-90	1 733.0	24.9					
70-100	1 081.2	15.6					
90-120	363.1	5.2					
0-90	6 552.5	94.3					
90-180	394.7	5.7					
0-180	6 947.2	100					

Illuminance at a distance



VN4-LS4B-80-(A/H/W)/40K • 8 758 Im

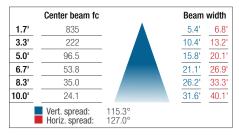
Polar candela distribution



Zonal lumen summary

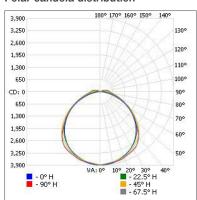
Zone	Lumens	% Fixture
0-30	1 939.2	22.1
0-40	3 278.6	37.4
0-60	6 075.7	69.4
60-90	2 184.7	24.9
70-100	1 363.1	15.6
90-120	457.8	5.2
0-90	8 260.4	94.3
90-180	497.6	5.7
0-180	8 757.9	100

Illuminance at a distance



VN4-LS5B-80-(A/H/W)/40K • 12 879 Im

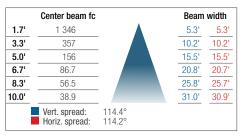
Polar candela distribution



Zonal lumen summary

	Lumens	% Fixture
0-30	3 072.2	23.9
0-40	5 128.7	39.8
0-60	9 212.5	71.5
60-90	2 963.2	23
70-100	1 826.6	14.2
90-120	646.1	5
0-90	12 175.8	94.5
90-180	703.3	5.5
0-180	12 879.1	100

Illuminance at a distance





¹ Complete IES files available on our website.