

Project: \_\_\_\_\_

Type: \_\_\_\_\_

Drawn by: \_\_\_\_\_ Catalogue #: \_\_\_\_\_

Date: \_\_\_\_\_

## VN4-L

### 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, 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 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 acetal polyoxymethylene (POM) 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, 120-277 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.

#### • Optional Emergency Lighting

LINK Normally ON Emergency Remote vapor tight luminaire

- Consuming 11 W, 12 - 24 VDC
- 200 mA constant current
- Delivers 1 462 - 1 573 lumens in emergency mode
- Ease of maintenance when used with Stanpro emergency lighting battery units complete with auto test function
- Complements Stanpro's normally ON vapor tight family.

*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 ICE-005 requirements

#### • General Lighting Compliances

- IP66
- IP67
- 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
- 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
Efficacy (lm/W)	117 - 143
Color temperature (K)	3 000/3 500/4 000/5 000
CRI	80+
Weight (lbs)	13



<sup>1</sup> 5 year warranty for the LINK module.

ORDERING GUIDE

Series	Lamp type	Lumen package (lm)	Volts (V)	Color temp. (K)	Options
VN4	L - LED	S1A - } S2A - } S3A - } S4A - } Refer to the technical specification table for more details	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 <sup>1,7</sup> - Emergency back up 120 V and 120-277 V only DIM1 <sup>2</sup> - 5 wire cable for AC and 0-10 V dimming DIM2 <sup>3</sup> - 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 <sup>4</sup> - Occupancy sensor AC - Aviation cable kit EL <sup>5,8</sup> - LINK Normally ON emergency remote RMP-05 <sup>7</sup> - For rigid mono point with 3/4" (1/2 npt) center hole drilled on fixture RMP-075 <sup>7</sup> - For rigid mono point with 1" (3/4 npt) center hole drilled on fixture RGB-45 <sup>6</sup> - 45° mount bracket

<sup>1</sup> 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.  
<sup>2</sup> When selecting DIM1 option please also select cable option whether L6, L10, L6-BK or L10-BK.  
<sup>3</sup> DIM2 is for S1A, S2A and S3A lumen packages.  
<sup>4</sup> To see available options, please consult the occupancy sensors section.  
<sup>5</sup> 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.  
<sup>6</sup> Horizontal wall mount or ceiling mount.  
<sup>7</sup> When selecting DL, RMP-05 and RMP-075 options, the fixture maintains wet location status, however NEMA 4X and IP rating are no longer applicable.  
<sup>8</sup> When in emergency mode, luminaire only consumes 11 W.  
For emergency lighting spacing, please see page 5.

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)	Efficacy (lm/W)	Lumen (lm)	Efficacy (lm/W)	Lumen (lm)	Efficacy (lm/W)	Lumen (lm)	Efficacy (lm/W)					
S1A	31	120-277	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 <sup>1</sup>	Location <sup>2</sup> (°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

### 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 <sup>1</sup>	Location <sup>2</sup> (°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 <sup>1</sup>	Location <sup>2</sup> (°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

<sup>1</sup> To be ordered separately.

<sup>2</sup> 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/](http://www.standardpro.com/documentation/technical-information/)

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# LINK

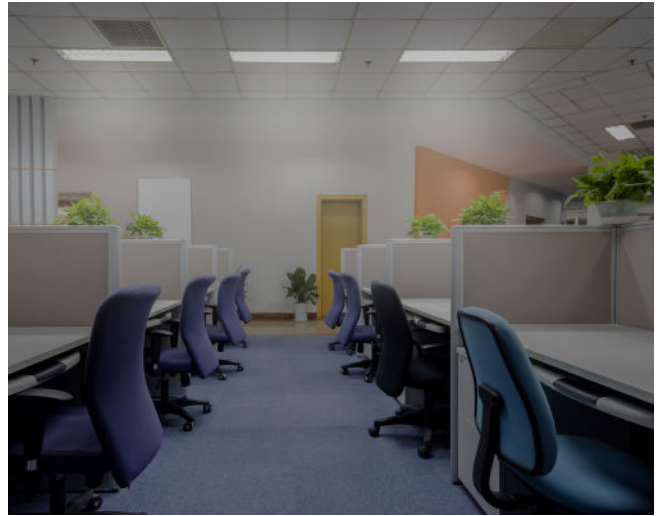
## NORMALLY ON EMERGENCY REMOTE LUMINAIRE

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  $\pm 1\%$  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\_ \_\_\_\_\_

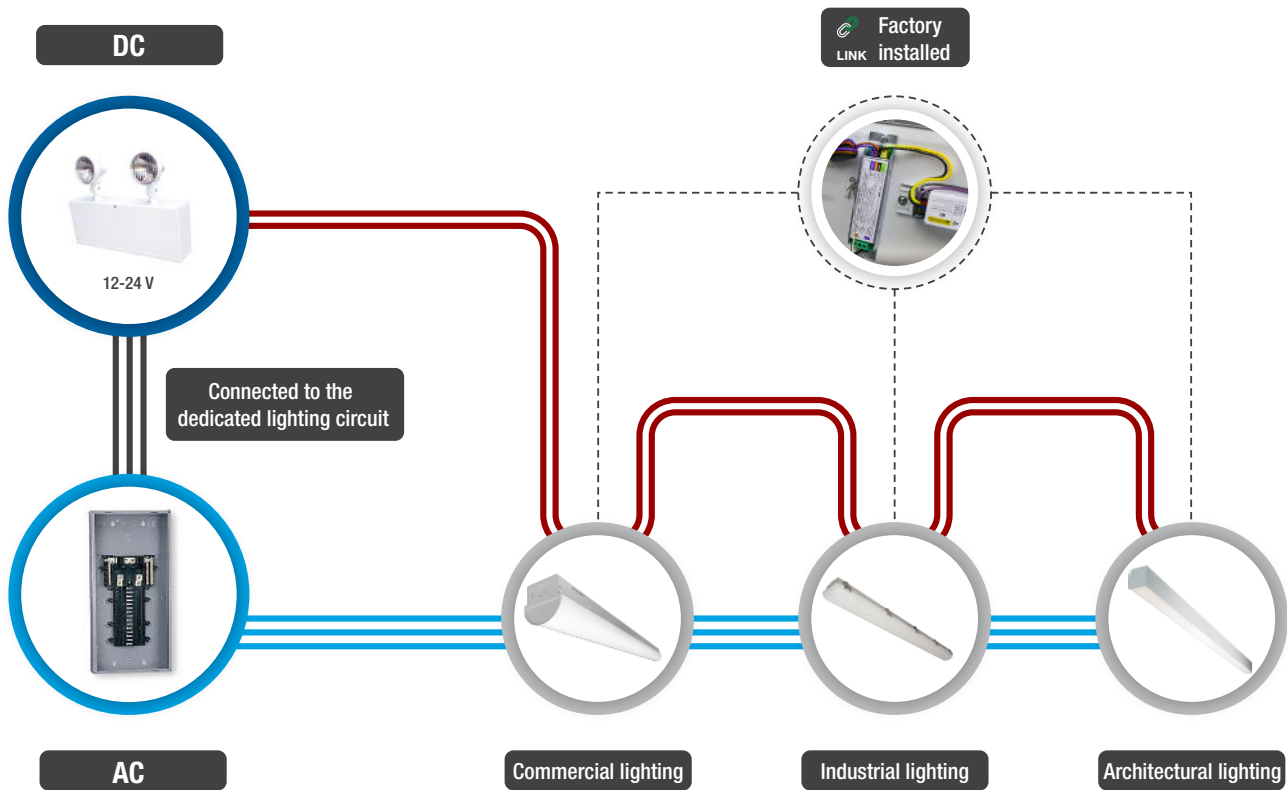
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# LINK

## NORMALLY ON EMERGENCY REMOTE LUMINAIRE

### LINK Wiring Diagram

LINK  
remote normally ON  
emergency lighting  
luminaire



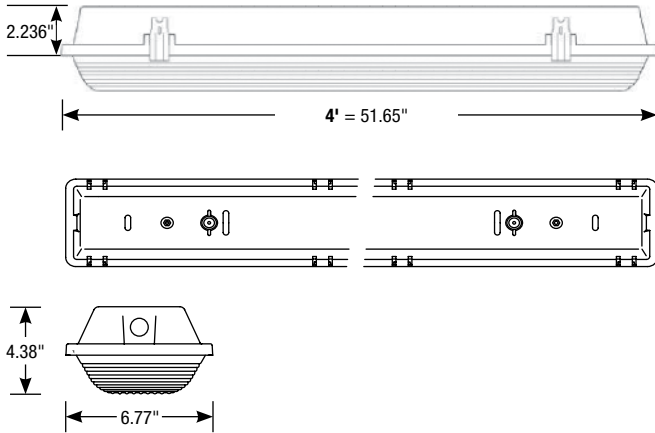
**LEGEND**

- AC wires
- Connected to the dedicated lighting circuit
- DC wires
- LINK factory installed

Emergency mode	Spacing
VN4-L	Average spacing for 1 out of every 4 luminaires, normally ON in the path of egress, when at 8, 10, or 12 foot mounting heights.

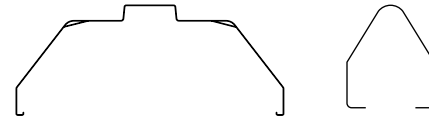
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**DIMENSIONS**



CEILING MOUNTING BRACKETS

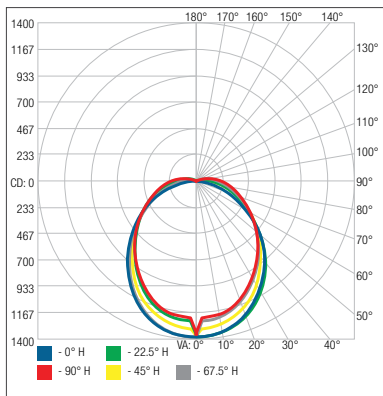
BAIL BRACKETS



**GENERAL LIGHTING PHOTOMETRIC DATA<sup>1</sup>**

**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

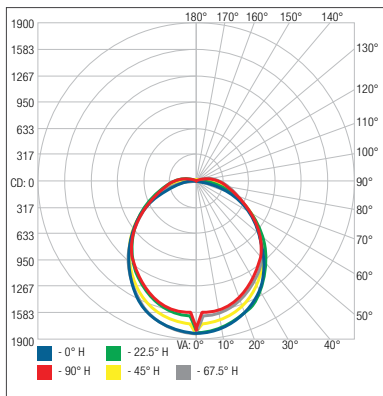
Illuminance at a distance

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°

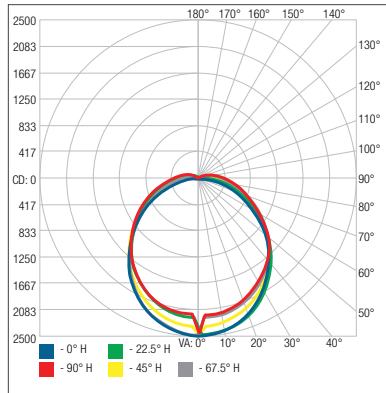
<sup>1</sup> Complete IES files available on our website.

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.

**GENERAL LIGHTING PHOTOMETRIC DATA<sup>1</sup> (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

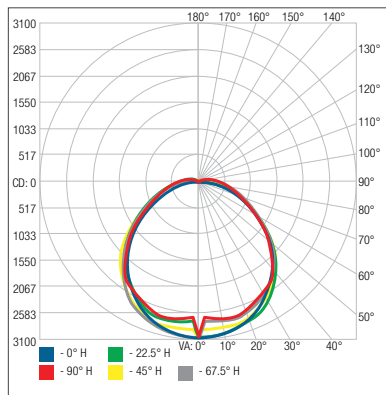
**Illuminance at a distance**

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°

<sup>1</sup> Complete IES files available on our website.

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