Project: _____ Type: _____

Drawn by: _____ Catalogue #: _____ Date: _____

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 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 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)
  LINK: -40°C to +40°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 V DC
  - 200 mA constant current
  - Delivers 1 139 - 1 351 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 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
  - 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+, 90+
Weight (lbs)	17

5 yrs warranty

LINK[1] EMERGENCY LIGHTING LUMINAIRE *remote normally ON*

premium *grade*

LED *fixture*

wet *location*

IP 66

IP 67

ICES *005*

DLC LISTED PREMIUM

DLC LISTED

C US

[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.

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ORDERING GUIDE

VN8 — L — — — / /

Series	Lamp type	Lumen package (lm)	CRI	Volts (V)	Color temp. (K)	Options
VN8	L - LED	S1B - S2B - S3B - S4B - S5B - Refer to the technical specification table for more details	80 - 80+ 90[7] - 90+	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, 10] - 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 EL1[8] - 1 LINK Normally ON Emergency Remote EL2[8] - 2 LINK Normally ON Emergency Remote RGB-45[9] - Mount bracket (45º)

[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] 90 CRI option may decrease lumen output from 15% to 19% depending on CCT.
[8] The LINK Normally ON Emergency Remote is compatible with all configurations: EL1 - LS1B, LS2B, LS3B, LS4B, LS5B; EL2 - LS4B, LS5B. Not compatible with the following options: DL, EH, OS (external). When in Emergency Mode, luminaire only consumes 11W.
[9] Horizontal wall mount.
[10] 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.

For emergency lighting spacing, please see page 5.

TECHNICAL SPECIFICATION TABLE[1]

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

LINK TECHNICAL SPECIFICATION TABLE

Lumen package	Luminaire Watts (W)	LINK Watts (W)	3 000 K Lumen output (lm)	3 500 K Lumen output (lm)	4 000 K Lumen output (lm)	5 000 K Lumen output (lm)
LS1B	52	11	1 247	1 288	1 318	1 339
LS2B	70					
LS3B	98		1 139	1 177	1 204	1 223
LS4B	125		1 247	1 288	1 318	1 339
LS5B	187		1 258	1 330	1 330	1 351
LS4B	125	22	2 358	2 436	2 492	2 532
LS5B	187		2 516	2 599	2 659	2 702

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]
		Low-Bay Luminaires for Commercial and Industrial Buildings[2]
	Standard	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.
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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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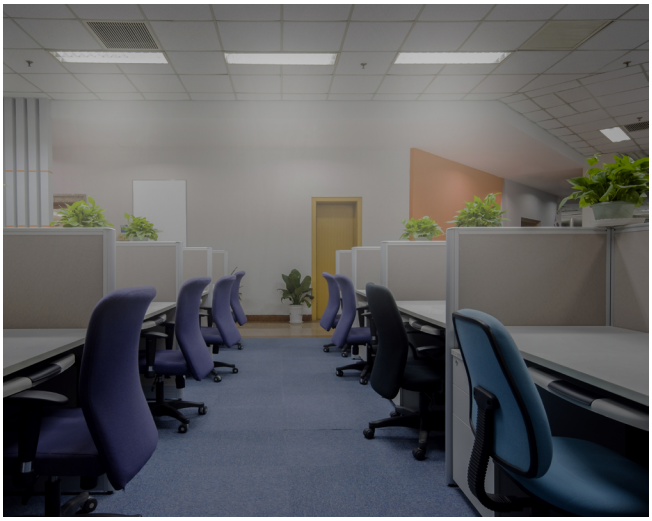
LINK

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, 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 2 924 - 3 146 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 efficiency, 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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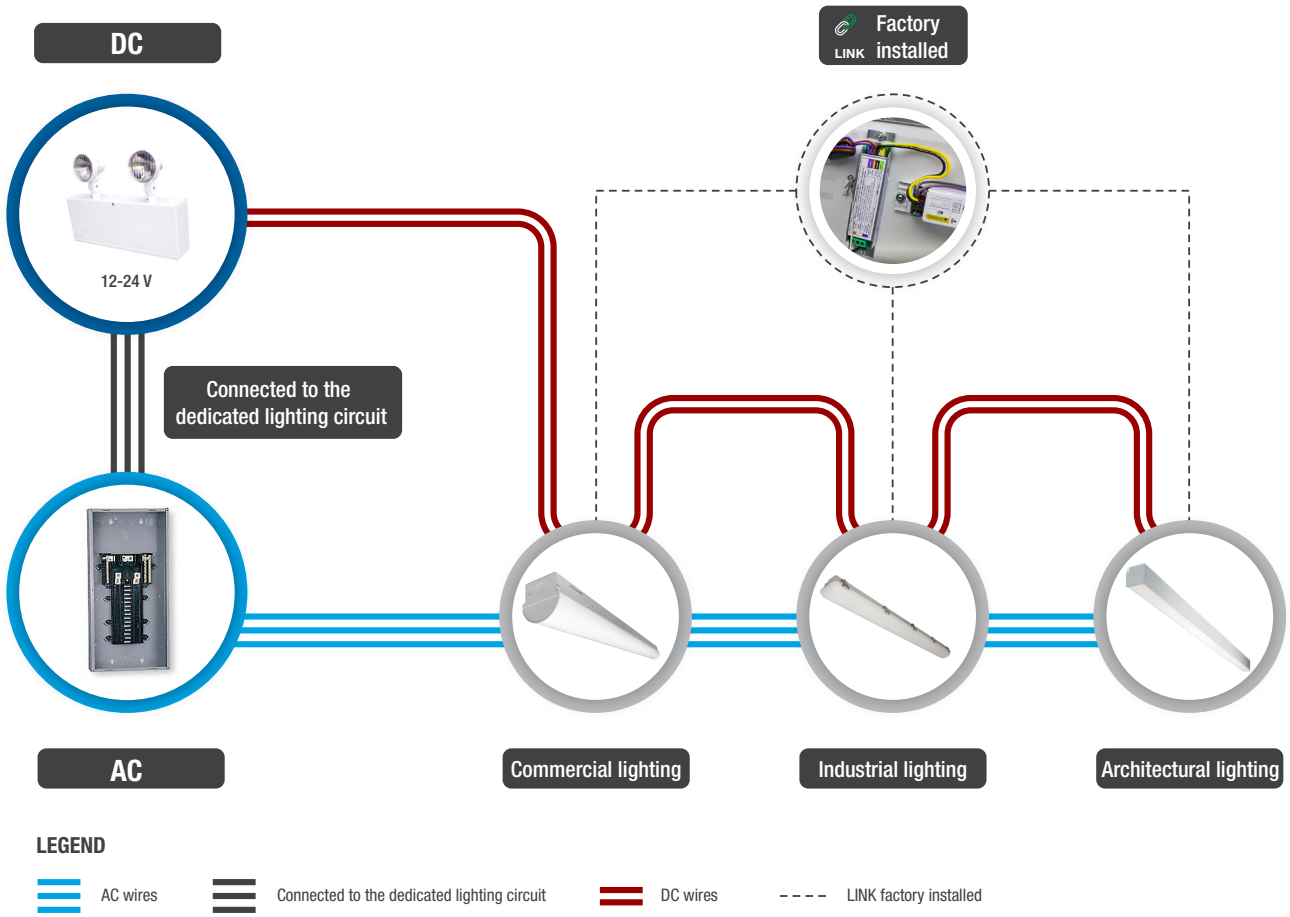
LINK

NORMALLY ON EMERGENCY REMOTE LUMINAIRE

LINK Wiring Diagram



Emergency mode	Spacing
VN8-L GEN 2	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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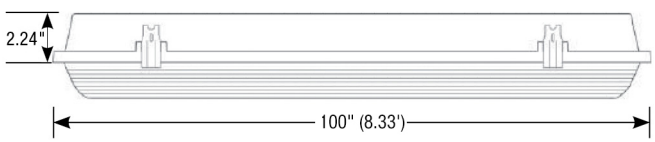
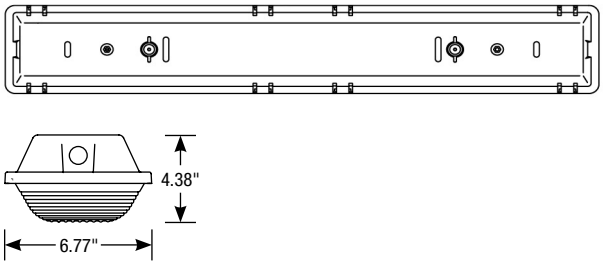
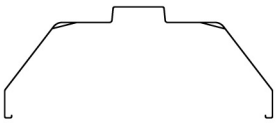
DIMENSIONS

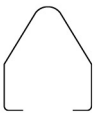




CEILING MOUNTING BRACKETS



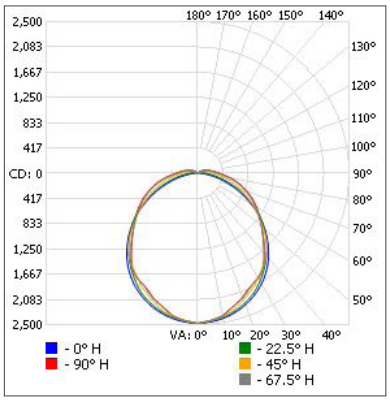
BAIL BRACKETS



PHOTOMETRIC DATA[1]

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

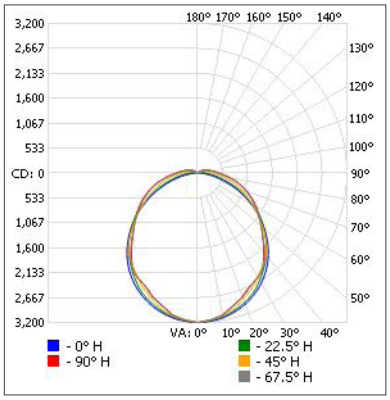
Illuminance at a distance

	Center beam fc	Beam width	
1.7'	856	4.9'	4.9'
3.3'	227	9.5'	9.6'
5.0'	99.0	14.4'	14.5'
6.7'	55.1	19.3'	19.4'
8.3'	35.9	23.9'	24.0'
10.0'	24.7	28.8'	28.9'

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	4.9'	4.9'
3.3'	294	9.5'	9.6'
5.0'	128	14.4'	14.5'
6.7'	71.2	19.3'	19.4'
8.3'	46.4	23.9'	24.0'
10.0'	32.0	28.8'	28.9'

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

[1] Complete IES files available on our website.

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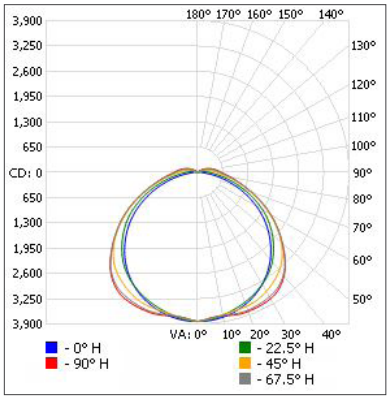
PHOTOMETRIC DATA[1]

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

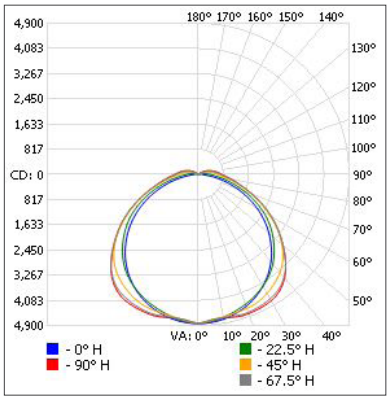
Illuminance at a distance

	Center beam fc	Beam width	
1.7'	1 325	5.4'	6.8'
3.3'	352	10.4'	13.2'
5.0'	153	15.8'	20.1'
6.7'	85.3	21.1'	26.9'
8.3'	55.6	26.2'	33.3'
10.0'	38.3	31.6'	40.1'

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

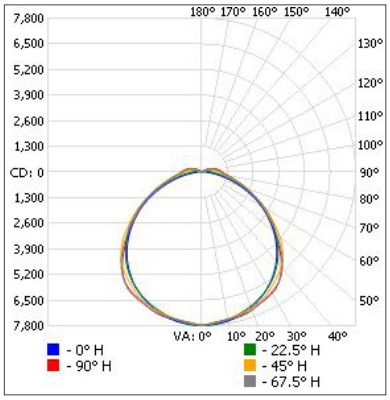
Illuminance at a distance

	Center beam fc	Beam width	
1.7'	1 670	5.4'	6.8'
3.3'	443	10.4'	13.2'
5.0'	193	15.8'	20.1'
6.7'	108	21.1'	26.9'
8.3'	70.1	26.2'	33.3'
10.0'	48.3	31.6'	40.1'

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	5.3'	5.3'
3.3'	715	10.2'	10.2'
5.0'	311	15.5'	15.5'
6.7'	173	20.8'	20.7'
8.3'	113	25.8'	25.7'
10.0'	77.8	31.0'	30.9'

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

[1] Complete IES files available on our website.

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