**STANPRO**

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

  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

## 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**

CSA ℅ us

NSF

[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 - <br> S2B - <br> S3B - <br> S4B - <br> S5B - | Refer to the technical specification table for more details | 80 - 80+ <br> 90[7] - 90+ | A - 120 <br> H - 347 <br> W - 120-277 | 30K - 3 000 <br> 35K - 3 500 <br> 40K - 4 000 <br> 50K - 5 000 | L6 - 6' white power cable length <br> L10 - 10' white power cable length <br> L6-BK - 6' black power cable length <br> L10-BK - 10' black power cable length <br> SS - Stainless steel latches (set of 10pcs) <br> KV - 10kV Surge protector <br> TP[1] - Vandal Resistant Kit (includes 6pcs tamper proof screws) <br> DL[2, 10] - Emergency backup 120 V and 120-277 V only <br> DIM1[3] - 5 wire cable for AC and 0-10 V dimming <br> DIM2[4] - Leading edge dimming 120 V only <br> SCAL - Smooth clear acrylic lens <br> SFAL - Smooth frosted acrylic lens <br> SCPL - Smooth clear polycarbonate lens <br> SFPL - Smooth frosted polycarbonate lens <br> OS[5] - Occupancy sensor <br> AC[6] - Aviation cable kit <br> EL1[8] - 1 LINK Normally ON Emergency Remote <br> EL2[8] - 2 LINK Normally ON Emergency Remote <br> RGB-45[9] - Mount bracket (45º) |

[1] 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 bodine powers LED boards. One bodine 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 or ceiling mount.

[10] NEMA 4X certification and IP ratings are not applicable when selecting DL option.

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) | | | | | |
| 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 |

## 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 |

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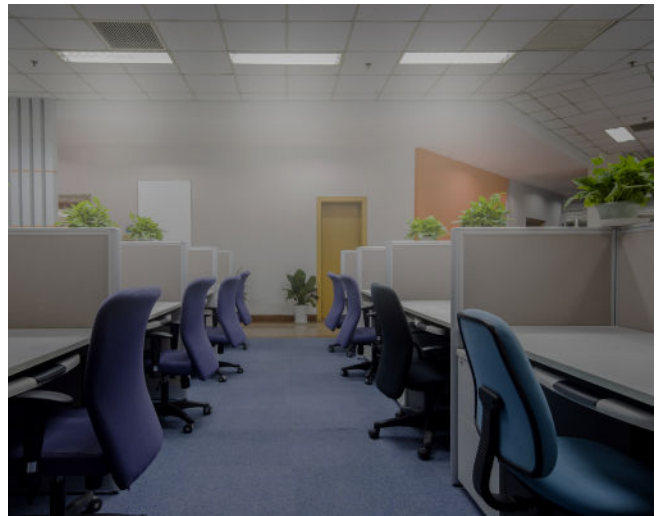www.standardpro.com/documentation/technical-information/

# 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.
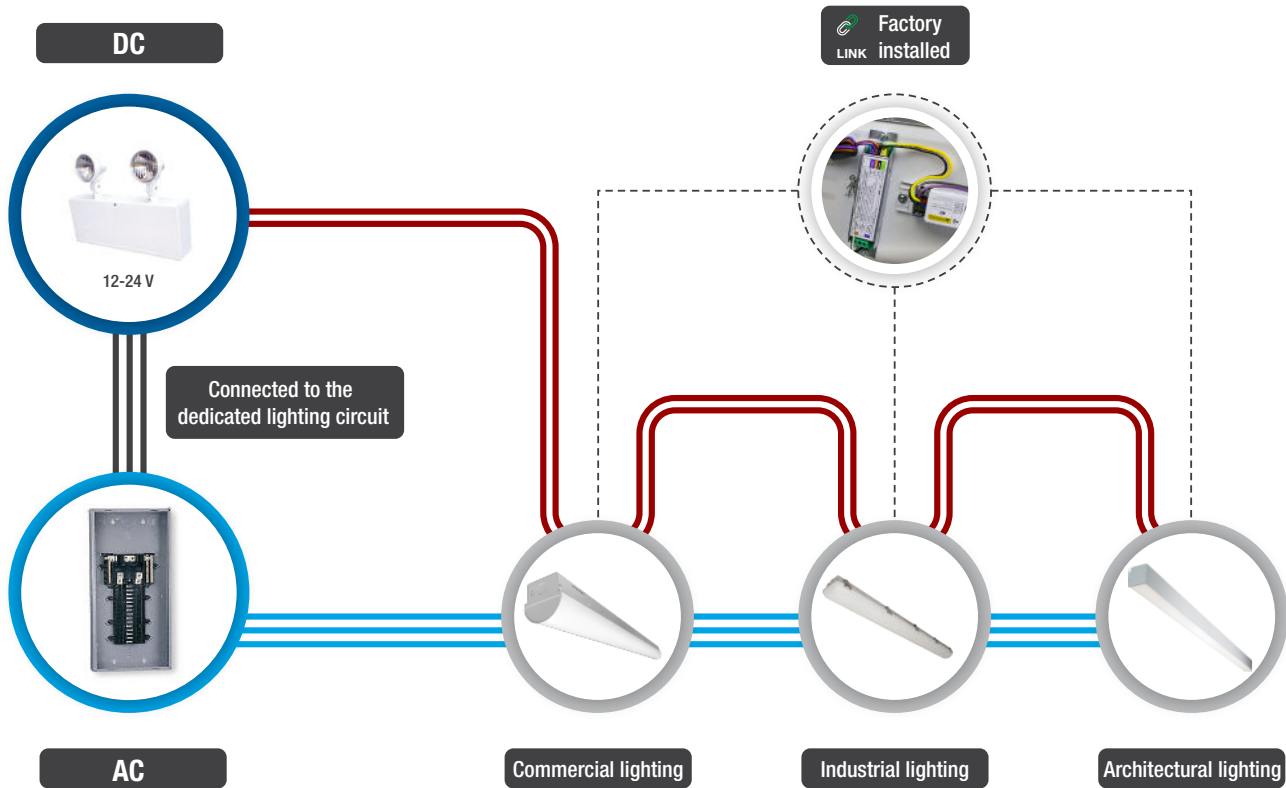
The unit shall be Stanpro model: SL_ _____

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# LINK
## NORMALLY ON EMERGENCY REMOTE LUMINAIRE

## LINK Wiring Diagram

LINK
remote
normally ON
*emergency lighting luminaire*



**DC**

Factory installed

12-24 V

Connected to the dedicated lighting circuit

**AC**

Commercial lighting

Industrial lighting
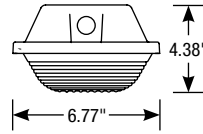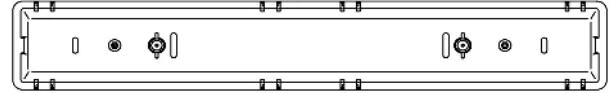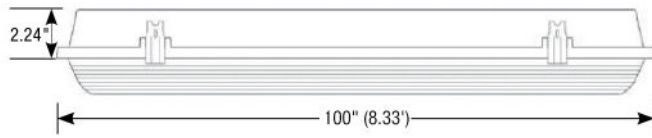
Architectural lighting

### LEGEND

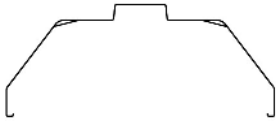| | | |
|---|---|---|
| AC wires | Connected to the dedicated lighting circuit | DC wires • LINK factory installed |

| 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. |

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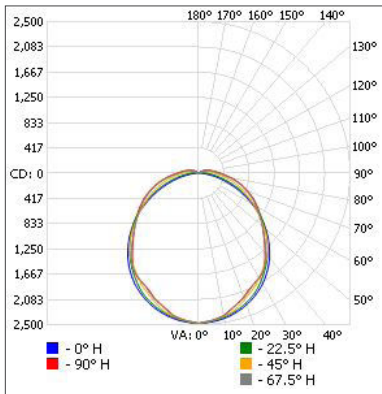All products are subject to change or may be discontinued any time without notice.

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## DIMENSIONS

2.24"

100" (8.33')

4.38"

6.77"

CEILING MOUNTING BRACKETS    BAIL BRACKETS

## PHOTOMETRIC DATA[1]

### VN8-LS1B-80-(A/H/W)/40K • 7 718 lm

#### Polar candela distribution



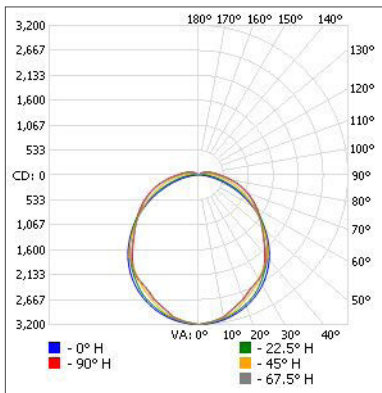#### Zonal lumen summary

| 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°
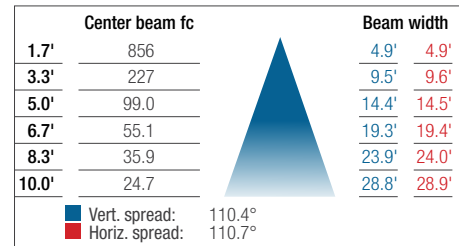
### VN8-LS2B-80-(A/H/W)/40K • 9 972 lm

#### 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
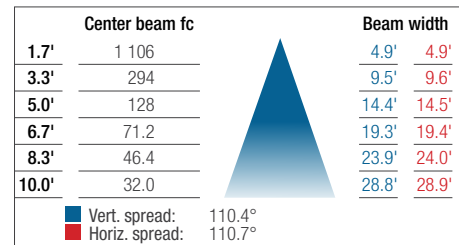
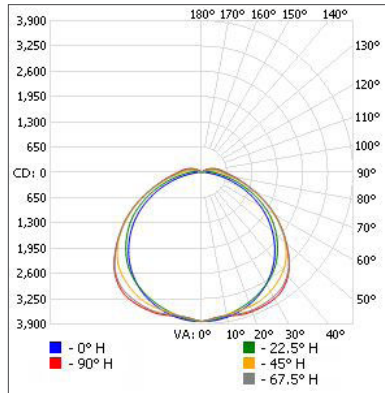| | Center beam fc | Beam width | |
|---|---|---|---|
| 1.7' | 1 106 | 4.9' | 4.9' |
| 3.3' | 294 | 9.5' | 9.6' |
| 5.0' | 128 | 14.4' | 14.5' |
| 6.7' | 71.2 | 19.3' | 19.4' |
| 8.3' | 46.4 | 23.9' | 24.0' |
| 10.0' | 32.0 | 28.8' | 28.9' |

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

[1] Complete IES files available on our website.

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions.
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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
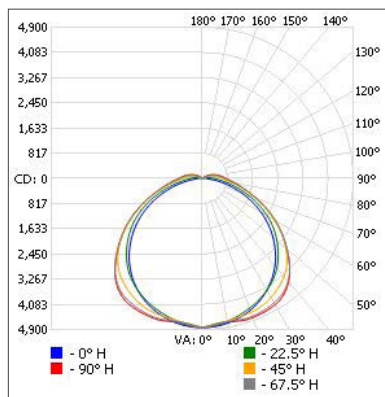


#### Zonal lumen summary

| 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
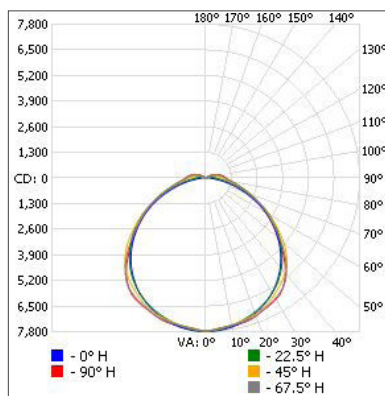


#### Zonal lumen summary

| 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.

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.

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