

VPL8-L GEN 2

3 CCT AND POWER SELECTABLE, NEMA 4X, NSF VAPOR TIGHT OPTIONAL EMERGENCY REMOTE



This 8' luminaire ideal for a variety of industrial and commercial applications. Installed either indoors or outdoors, the VPL8-L provides superior light distribution and is intended for environments where moisture and/or dust may be present. Perfect for applications requiring the complete containment of LEDs for easy washability and hose down. The VPL8-L series can withstand reduced temperatures and moderate impact.

FEATURES & SPECIFICATIONS

CONSTRUCTION

Physical Characteristics

- Lightweight, slim and durable impact-resistant polycarbonate construction
- Easy installation and maintenance. Gear tray is attached to the lens exposing the internal components when the fixture is in open position. Change the color temperature and desired lumen output with the simple touch of a button
- Uniform gasketed seal and reinforced stainless steel clips block the ingress of moisture and dust
- Pre-drilled end-holes and two watertight glands are offered with each fixture to preserve integrity of internal components

Mounting options

Surface (ceiling/wall), suspended or 90° surface mounting. Set of 2 V-hooks and 2 stainless steel mounting clips included with each fixture for surface or suspended mounting with chain or aviation cable

Lens

The frosted LED diffusing pigment lens provides uniform light distribution and has been UV stabilized to ensure that there is no yellowing over time. This impact-resistant polycarbonate lens is impervious to rust or rot and is unaffected by extreme temperatures.

OPTIONAL EMERGENCY LIGHTING

Normally ON emergency remote vapor tight luminaire "BRIDGE"

- Consuming 11 W, 12-24 VDC
- 200 mA constant current
- Delivers 1 120- 2 400 lumens in emergency mode
- Ease of maintenance when used with AimLite emergency lighting battery units complete with auto test function
- Patent Pending

Please view the **BRIDGE** 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

PERFORMANCE DATA

- Available in 3 500/4 000/5 000 K selectable color temperature
- 80+ CRI
- Electrical ratings: 120-347 V
- Estimated life of over 54 000 to L70
- 0-10 V dimming driver. Dimming cables sold separately
- 2kV surge protection (standard). See options table for additional surge protection.
- Operating temperature: -40°C to +40°C [-40°F to +104°F]

COMPLIANCES

- Suitable for damp & wet locations
- IP66
- Meets requirements of ICES-005 (Class B)
- UL1598, UL8750
- cCSAus
- cETLus certified
- NSF certified (Splash Zone and Non Food Zone)
- NEMA 4X
- IK10
- DLC Premium, DLC Standard
- BC Hydro

OVERVIEW			
LIGHT SOURCE	LED	COLOR TEMPERATURE [K]	3 CCT (3 500/4 000/5 000 K)
WATTS [W]	65 65/75/90/110	CRI	80+
LUMEN OUTPUT [LM]	9 445 - 16 101	WEIGHT [LBS]	9.8 - 10.5
EFFICACY [LM/W]	141 - 150		
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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.

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.

VPL8-L GEN 2

QUICK SHIP ORDERING GUIDE



PART NUMBER	WATTS [W]	VOLTS [V AC]	COLOR TEMP. [K] ¹	LUMEN OUTPUT [LM] ^{2,3}	EFFICACY [LM/W]	CRI	LIFE L70 [HRS] ⁴	TESTED HOURS LM-80 [HRS] ⁴	DIMMING	PF	THD [%]
VPL8-LA1B-32-3C	65	120-347	3 500/4 000/5 000	9 622	150	80+	> 54 000	9 000	0-10 V	>0.9	<20
VPL8-PS110B-32-3C	65/75/90/110	120-347	3 500/4 000/5 000	9 796/11 148/13 121/16 101	146	80+	> 54 000	9 000	0-10 V	>0.9	<20

¹ Typical color temperature range: +/- 5 %.

² Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %.

³ Lumen values are derived from DLC reported data at 4 000 K. Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures

⁴ Life hours are derived from IESNA LM-08 testing report and projected per IESNA TM-11 extrapolations

DLC UNIQUE ID TABLE

PART NUMBER	DLC PREMIUM UNIQUE ID ¹	DLC PREMIUM UNIQUE ID ²	DLC STANDARD UNIQUE ID ³
VPL8-LA1B-32-3C	S-JR2H06	S-64V03F	S-YAJVQ3
VPL8-PS110B-32-3C	S-ODNJK4	S-GAC9H2	S-OLQ146

¹ Primary Use Designation: Stairwell and Passageway Luminaires

² Primary use Designation: High-Bay Luminaires for Commercial and Industrial Buildings

³ Primary Use Designation: Direct Linear Ambient Luminaires

ORDERING GUIDE

VPL8 — — — 3C /

SERIES	LUMEN PACKAGE [LM]	VOLTS [V]	COLOR TEMP. [K]	OPTIONS
VPL8	LA1B - 65 PS110B - 65/75/90/110	32 - 120-347 2 - 120-277 ⁴	3C - 3 500/4 000/5 000	BLANK - NO SENSOR OS ^{1,3} - OCCUPANCY SENSOR DIM1 ² - 5 WIRE CABLE FOR AC AND 0-10 V DIMMING L6 - 6 FT WHITE POWER CORD L10 - 10 FT WHITE POWER CORD L6-BK - 6 FT BLACK POWER CORD L10-BK - 10 FT BLACK POWER CORD EL1 ⁶ - 1 BRIDGE NORMAL ON EMERGENCY EL2 ⁶ - 2 BRIDGE NORMAL ON EMERGENCY DL ^{3,6,7} - EMERGENCY BACK UP (0°C - 25°C) 120 V, 120-277 V KV - 10 KV SURGE PROTECTION CH ³ - CENTER HOLE 7/8" AC ^{2,5} - AVIATION CABLE KIT

¹ To see available options, please consult the occupancy sensors section

² When selecting AC or DIM1 option, please also select cable option whether L6, L10, L6-BK or L10-BK. DL option not compatible with DIM1

³ When selecting CH, OS (external) and DL options, the fixture maintains wet location status, however NEMA 4X and IP rating are not applicable

⁴ Only available for luminaires when used with DL option

⁵ Aviation cable length based on selected power cable length

⁶ Fixture functional in AC mode, when power goes off emergency driver (DL) powers LED boards. One emergency driver per fixture is standard unless otherwise specified

⁷ Emergency backup only available for 120-277 V

⁸ The BRIDGE Emergency Power conversion module is compatible with all the following configurations: PS110B. Not compatible with the following options: DL, OS (external).
When in Emergency Mode, unit only consumes 11 watts
For Emergency Lighting spacing, please see p.5

LUMEN SPECIFICATION TABLE

PART NUMBER	WATTS [W]	VOLTS [V AC]	3 500 K LUMEN OUTPUT [LM]	EFFICACY [LM/W]	4 000 K LUMEN OUTPUT [LM]	EFFICACY [LM/W]	5 000 K LUMEN OUTPUT [LM]	EFFICACY [LM/W]
VPL8-LA1B-32-3C	65	120-347	9 445	146	9 622	149	9 336	144
VPL8-PS110B-32-3C	65		9 512	146	9 796	150	9 651	148
	75		10 824	144	11 148	148	10 982	146
	90		12 740	141	13 121	146	12 926	143
	110		15 634	142	16 101	146	15 862	144

DEFAULT PROGRAMMING

VPL8-PS110B-32-3C	110 W / 4 000 K
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BRIDGE TECHNICAL SPECIFICATION TABLE

LUMEN PACKAGE	WATTS [W]	BRIDGE WATTS [W]	3 CCT (3 500/4 000/5 000 K) LUMEN OUTPUT [LM]
VPL8-LA1B-32-3C/EL1	65	11	1 120
VPL8-PS110B-32-3C/EL1	65	11	1 200
	75		
	90		
	110		
VPL8-PS110B-32-3C/EL2	65	22	2 400
	75		
	90		
	110		

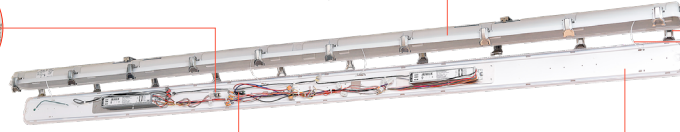
VPL8-L GEN 2

PRODUCT FEATURES

Slider button for the Color Temperature and Power Select feature



Lightweight, slim and high impact resistant polycarbonate construction

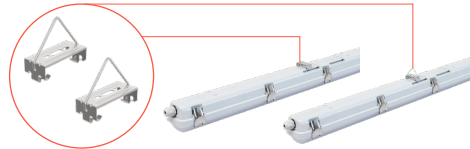


Stainless Steel Clips and Safety Straps support the Lens and Gear Tray to the Housing during installation and maintenance



Gear Tray attached to Lens for easy installation and maintenance

ACCESSORIES (INCLUDED IN THE BOX)



SURFACE MOUNTING AND V-HOOKS (SET OF 2)

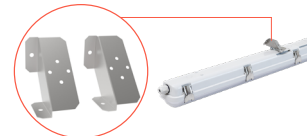


HARDWARE KIT

ACCESSORIES (ORDER SEPARATELY)

PART NUMBER	TYPE	COMPATIBLE WITH
CAS984-SMVH-KIT	SURFACE MOUNTING BRACKETS AND V-HOOKS (SET OF 2PCS)	ALL CONFIGURATIONS
CAS984-ANG90-KIT	90° ANGLE BRACKETS (SET OF 2PCS)	ALL CONFIGURATIONS
CAS984-8-SMVH-KIT	TAMPER PROOF BRACKETS (SET OF 4PCS)	ALL CONFIGURATIONS
BKT926-8FT ¹	JUNCTION BOX BRACKET (SET OF 2PCS)	ALL CONFIGURATIONS
LEN409-8	8FT REPLACEMENT FROSTED POLYCARBONATE LENS	ALL CONFIGURATIONS
CAS1015-8-LATCH	STAINLESS STEEL REPLACEMENT LATCH KIT WITH HOLE (SET OF 20PCS)	ALL CONFIGURATIONS
CAS1023-HW	REPLACEMENT HARDWARE KIT: WATERTIGHT END CAPS (2PCS), WATERTIGHT GLANDS (2PCS), SURFACE MOUNT BRACKETS (2PCS), V-HOOKS (2PCS) AND MOUNTING HARDWARE	ALL CONFIGURATIONS
HAR-1182-WGLAND-GY	REPLACEMENT WATERTIGHT GLAND (1PC)	ALL CONFIGURATIONS
HAR-1182-CPLUG-GY	REPLACEMENT WATERTIGHT END CAP (1PC)	ALL CONFIGURATIONS
HAR1144-2	VANDAL RESISTANT SCREWS (18PCS)	ALL CONFIGURATIONS
HAR1144-BIT	BIT FOR VANDAL RESISTANT SCREW (1PC)	HAR1144-2

¹ Accessory requires additional center hole [CH] on top of housing. Fixture maintains wet location status, however NEMA 4X and IP ratings are not applicable with CH. Please see installation instructions for more details



90° ANGLE BRACKETS (SET OF 2)



TAMPER PROOF BRACKETS (SET OF 4)



JUNCTION BOX BRACKET (SET OF 2)



REPLACEMENT FROSTED POLYCARBONATE LENS



REPLACEMENT LATCH KIT WITH HOLE (SET OF 20)



REPLACEMENT WATERTIGHT GLAND (1PC)



REPLACEMENT WATERTIGHT END CAP (1PC)

COMPATIBLE DIMMERS¹

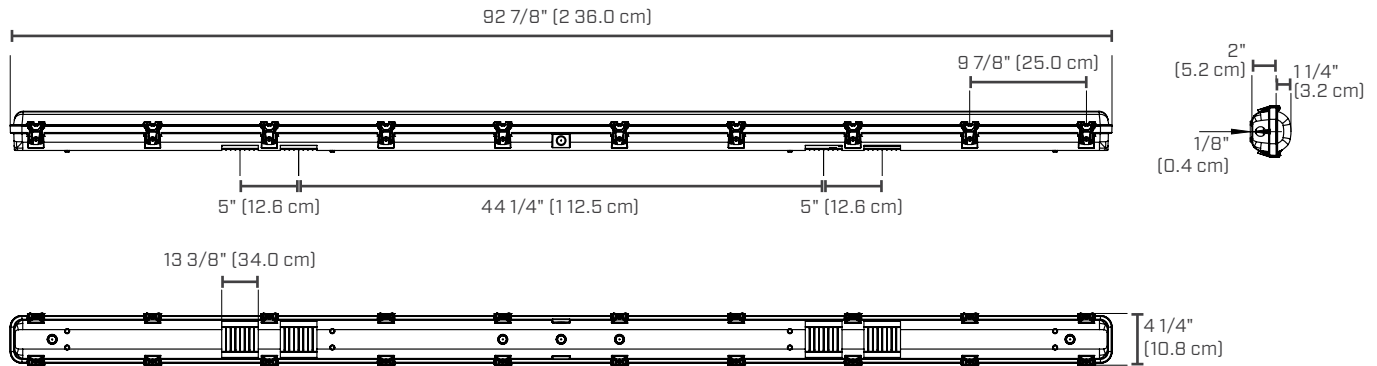
BRAND	MODEL
LEVITON	DS710-10Z, DD710-BDZ, IP710-LFZ
LUTRON	DVSTV-453P, MAESTRO MS-Z101

¹ This table shows dimmers that have been tested and have demonstrated proper operation under normal conditions. Each installation being unique, various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance. Read and comply to the dimmer installation instructions. Consult dimming system manufacturer for additional support in operation. Some dimmers may require more than one product for stable operation. AimLite recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation.

Dimming range: 10 %-100 %

VPL8-L GEN 2

DIMENSIONS



OCCUPANCY SENSORS

ON-OFF SENSORS

Detection - On at [Detection Area] % during [Hold Time] min. Off

PART NO	POSITION	VOLTS (V AC)	TECHNOLOGY	HEIGHT (FT)	DETECTION AREA (%)	HOLD TIME (MIN.)	DAYLIGHT MIN LEVEL (LUX)	REMOTE*	LOCATION**
OSE-PO-0302	EXTERNAL	120-347	PIR	20-40	100	20	N/A		DRY, -40° TO +40°C
OSE-PO-0501	EXTERNAL	120-347	PIR	15-40	100	15	3 000	OSI-FSIR-100	DRY, 0° TO +40°C
OSE-PO-0502	EXTERNAL	120-347	PIR	15-40	100	15	3 000		DRY, 0° TO +40°C
OSE-PO-0701	EXTERNAL	120-277	PIR	20	100	15	N/A		WET, -40° TO +40°C
OSI-F0-1601	INTERNAL	120-277	HIGH FREQUENCY	20	100	10	DISABLE	OSI-RC100	DRY AND WET, -40° TO +40°C
OSI-F0-1701	INTERNAL	120-347	HIGH FREQUENCY	13	100	10	DISABLE		DRY AND WET, -20° TO +40°C

BI-LEVEL SENSORS

Detection - On at [Detection Area] % during [Hold Time] min., then [Stand-by Dim level] %

PART NO	POSITION	VOLTS (V AC)	TECHNOLOGY	HEIGHT (FT)	DETECTION AREA (%)	HOLD TIME (MIN.)	STAND-BY DIM LEVEL (%)	DAYLIGHT MIN LEVEL (LUX)	REMOTE*	LOCATION**
OSE-FB-0402	EXTERNAL	120-347	HIGH FREQUENCY	50 MAX	100	20	30	50	OSI-RC-MH10	WET, -35° TO +40°C
OSI-FB-1601	INTERNAL	120-277	HIGH FREQUENCY	20	100	10	50	DISABLE	OSI-RC100	DRY AND WET, -40° TO +40°C
OSI-FB-1602	INTERNAL	120-277	HIGH FREQUENCY	20	100	10	30	DISABLE	OSI-RC100	DRY AND WET, -40° TO +40°C
OSI-FB-1701	INTERNAL	120-347	HIGH FREQUENCY	13	100	10	50	DISABLE		DRY AND WET, -20° TO +40°C
OSI-FB-1702	INTERNAL	120-347	HIGH FREQUENCY	13	100	10	30	DISABLE		DRY AND WET, -20° TO +40°C

TRI-LEVEL SENSORS

Detection - On at [Detection Area] % during [Hold Time] min., then [Stand-by Dim level] % during [Stand-by period] min. Off

PART NO	POSITION	VOLTS (V AC)	TECHNOLOGY	HEIGHT (FT)	DETECTION AREA (%)	HOLD TIME (MIN.)	STAND-BY DIM LEVEL (%)	STAND-BY PERIOD (MIN)	DAYLIGHT MIN LEVEL (LUX)	REMOTE*	LOCATION**
OSE-FT-0402	EXTERNAL	120-347	HIGH FREQUENCY	50 MAX	100	30	30	10	50	OSI-RC-MH10	WET, -35° TO +40°C
OSI-FT-1601	INTERNAL	120-277	HIGH FREQUENCY	20	100	10	30	30	DISABLE	OSI-RC100	DRY AND WET, -40° TO +40°C
OSI-FT-1602	INTERNAL	120-277	HIGH FREQUENCY	20	100	10	30	30	50	OSI-RC100	DRY AND WET, -40° TO +40°C
OSI-FT-1701	INTERNAL	120-347	HIGH FREQUENCY	13	100	10	30	30	DISABLE		DRY AND WET, -20° TO +40°C
OSI-FT-1702	INTERNAL	120-347	HIGH FREQUENCY	13	100	10	30	30	50		DRY AND WET, -20° TO +40°C

* To be ordered separately.

** 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.aimlite.com/documentation/technical-information/

VPL8-L GEN 2

BRIDGE

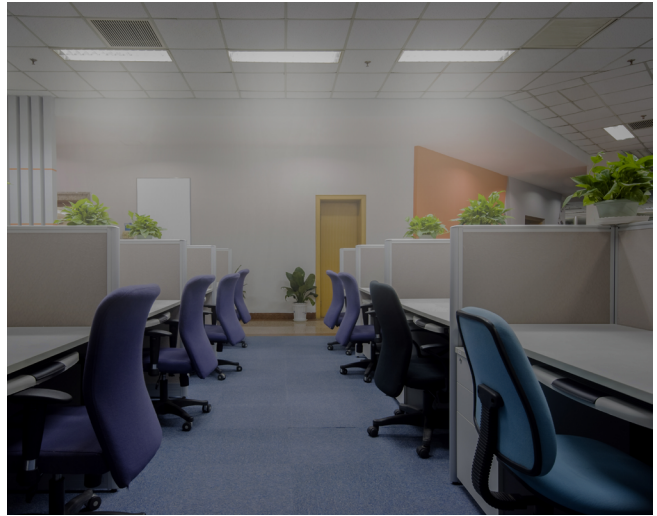
NORMALLY ON EMERGENCY REMOTE LUMINAIRE

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

NORMAL MODE



EMERGENCY MODE



TYPICAL SPECIFICATION

Supply and install AimLite “ Bridge” ___FT, LED Strip, 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 AimLite battery unit complete with or without auto test , the fixture shall act as an Emergency Lighting remote and consume 11W of DC power in ___ V producing 1645 - 3366 Lumens in Emergency mode.

The remote normally on emergency luminaire shall be powered by a AimLite emergency lighting battery unit as described herein and shown on the drawings. The AimLite 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 120V, 277V or 347V, 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 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 AimLite 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 insures that the battery charger is recharging the battery in accordance with Code requirements. The unit shall be AimLite model: SL_ _____

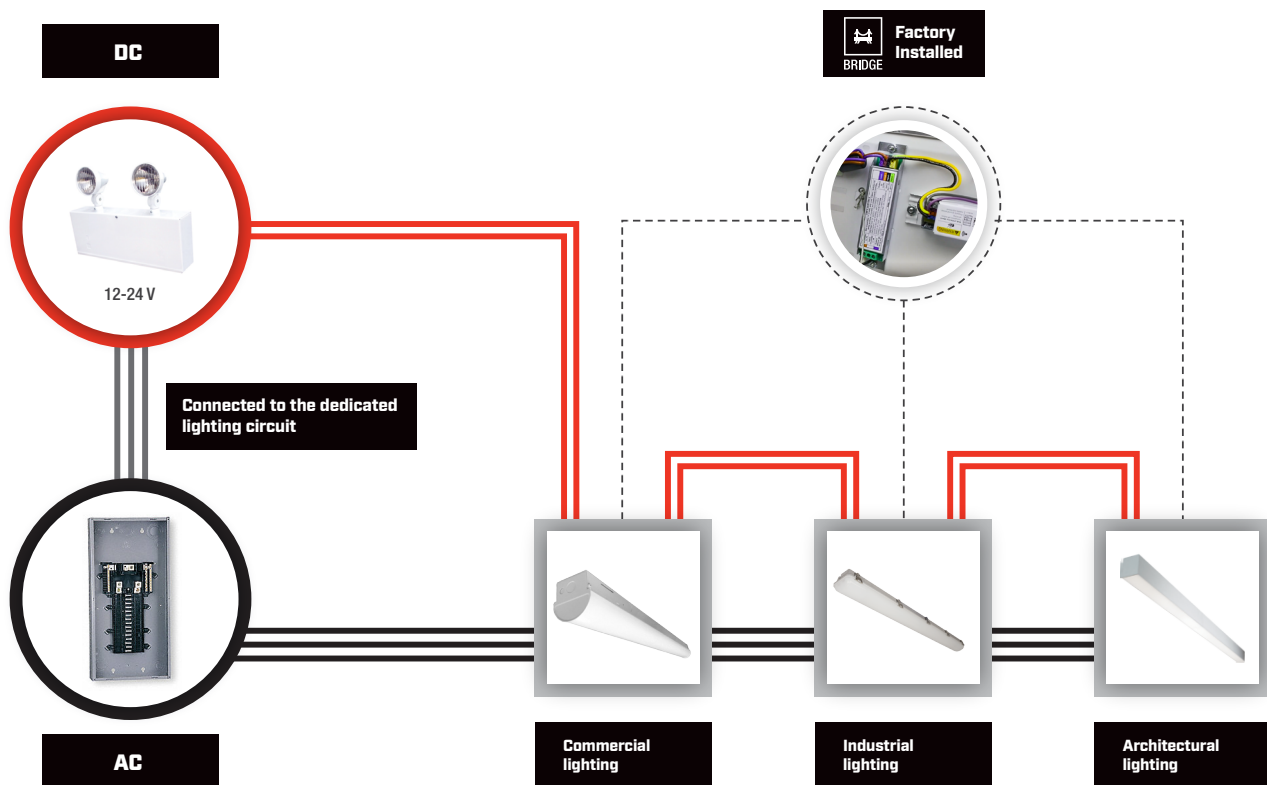
VPL8-L GEN 2

BRIDGE

NORMALLY ON EMERGENCY REMOTE LUMINAIRE



BRIDGE WIRING DIAGRAM



LEGEND



AC wires



Connected to the dedicated lighting circuit



DC wires



BRIDGE Factory Installed

Commercial lighting	Foot spacing
VPL8- L GEN. 2	41 foot spacing ¹

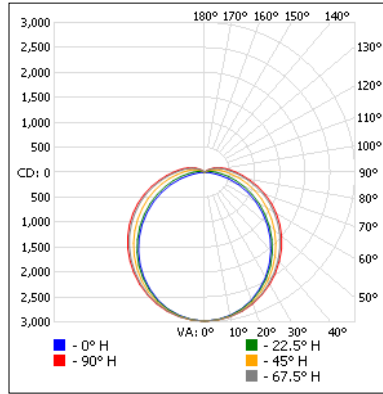
¹ Applicable for 8', 10' or 12' ceilings

VPL8-L GEN 2

PHOTOMETRIC DATA¹

VPL8-LA18-32-3C • 65 W • 4 000 K • 9 622 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

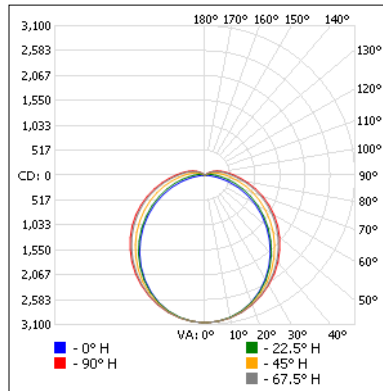
ZONE	LUMENS	% FIXTURE
0-30	2 307.5	22.7
0-40	3 781.5	37.1
0-60	6 784.3	68.6
60-90	2 682.9	26.3
70-100	1 813.7	17.8
90-120	653.7	6.4
0-90	9 467.2	92.9
90-180	720.3	7.1
0-180	10 187.4	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
1.7'	1 032		4.5'	7.1'
3.3'	274		8.8'	13.8'
5.0'	119		13.3'	10.9'
6.7'	66.4		17.9'	28.0'
8.3'	43.3		22.1'	34.7'
10.0'	29.8		26.7'	41.9'
■ Vert. Spread: 106.2° ■ Hor. Spread: 128.9°				

VPL8-PS110B-32-3C • 65 W • 4 000 K • 10 255 LM


POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

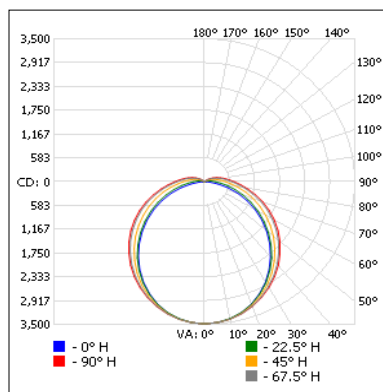
ZONE	LUMENS	% FIXTURE
0-30	2 360.8	23
0-40	3 861.4	37.7
0-60	6 894.6	67.2
60-90	2 657.7	25.9
70-100	1 777.8	17.3
90-120	631.8	6.2
0-90	9 552.2	93.1
90-180	702.6	6.9
0-180	10 254.9	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
1.7'	1 059		4.5'	6.7'
3.3'	281		8.7'	13.0'
5.0'	122		13.2'	19.8'
6.7'	68.2		17.7'	26.5'
8.3'	44.4		21.9'	32.8'
10.0'	30.6		26.3'	39.5'
<div>■ Vert. Spread: 105.6°</div> <div>■ Hor. Spread: 126.3°</div>				

VPL8-PS110B-32-3C • 75 W • 4 000 K • 11 676 LM

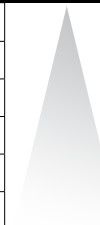
POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	2 687.9	23
0-40	4 396.4	37.7
0-60	7 849.9	67.2
60-90	3 026.0	25.9
70-100	2 024.2	17.3
90-120	719.4	6.2
0-90	10 875.8	93.1
90-180	800.0	6.9
0-180	11 675.8	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
1.7'	1 206		4.5'	6.7'
3.3'	320		8.7'	13.0'
5.0'	139		13.2'	19.8'
6.7'	77.6		17.7'	26.5'
8.3'	50.6		21.9'	32.8'
10.0'	34.8		26.3'	39.5'
■ Vert. Spread: 105.6° ■ Hor. Spread: 126.3°				

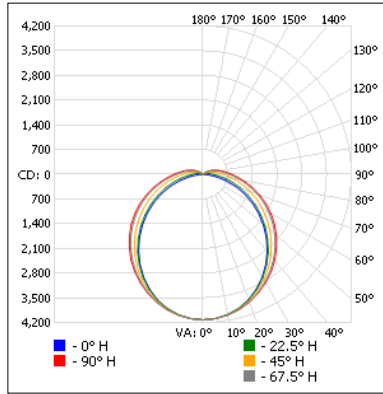
¹ Complete IES files available on our website.

VPL8-L GEN 2

PHOTOMETRIC DATA¹

VPL8-PS110B-32-3C • 90 W • 4 000 K • 13 813 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	3 179.8	23
0-40	5 201.0	37.7
0-60	9 286.4	67.2
60-90	3 579.7	25.9
70-100	2 394.6	17.3
90-120	851.0	6.2
0-90	12 866.1	93.1
90-180	946.4	6.9
0-180	13 812.5	100

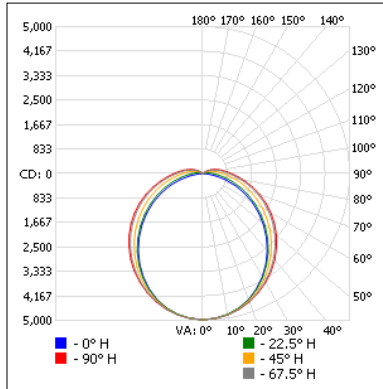
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	1 426	4.5'	6.7'
3.3'	379	8.7'	13.0'
5.0'	165	13.2'	19.8'
6.7'	91.8	17.7'	26.5'
8.3'	59.8	21.9'	32.8'
10.0'	41.2	26.3'	39.5'

■ Vert. Spread: 105.6° ■ Hor. Spread: 126.3°

VPL8-PS110B-32-3C • 110 W • 4 000 K • 16 665 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	3 836.4	23
0-40	6 275.0	37.7
0-60	11 204.1	67.2
60-90	4 318.9	25.9
70-100	2 889.1	17.3
90-120	1 026.8	6.2
0-90	15 523.0	93.1
90-180	1 141.8	6.9
0-180	16 664.9	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	1 721	4.5'	6.7'
3.3'	457	8.7'	13.0'
5.0'	199	13.2'	19.8'
6.7'	111	17.7'	26.5'
8.3'	72.2	21.9'	32.8'
10.0'	49.7	26.3'	39.5'

■ Vert. Spread: 105.6° ■ Hor. Spread: 126.3°

¹ Complete IES files available on our website.