

# VPL4-L

## 3 CCT SELECT, NEMA 4X, NSF VAPOR TIGHT OPTIONAL EMERGENCY REMOTE



A 4' luminaire ideal for a variety of industrial, commercial applications. Installed either indoors or outside, the VPL4-L provides superior light distribution. Intended for applications where moisture and/or dust may be present. Also 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 & SPECIFICATIONS

#### CONSTRUCTION

##### Housing

- Lightweight, slim and durable polycarbonate construction makes the luminaire highly impact resistant
- The housing is sealed with a uniform gasket that blocks the ingress of moisture and dust and reinforced snap clips lock the luminaire together
- Comes standard with stainless steel latches

##### Mounting

Stainless steel mounting hardware for ceiling or suspended mounting. V-hooks also provided for suspension on chain or aviation cable mounting.

##### Lens

Polycarbonate frosted lens with LED diffusing pigment is impervious to rust or rot and is unaffected by extreme temperatures.

#### TECHNICAL SPECIFICATIONS

- 3 CCT (3 500/4 000/5 000 K)
- 120-277 V or 120-347 V
- 0-10 V dimming driver. Dimming cables sold separately, see ordering guide.
- Operating temperature: -40°C to +40°C (-40°F to 104°F)

#### OPTIONAL EMERGENCY LIGHTING

##### Normally ON emergency remote vapor tight luminaire "BRIDGE"

- Consuming 11 W, 12-24 VDC
  - 200 mA constant current
  - Delivers 1316 to 1408 lumens in emergency mode
  - Ease of maintenance when used with AimLite emergency lighting battery units complete with auto test function
  - Complements AimLite's normally on VPL4-L 4', 3CCT, 3 Power selectable, multi-volt family
  - 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

#### GENERAL LIGHTING COMPLIANCES

- Suitable for damp & wet locations
- IP66
- Meets requirements of ICES-005
- UL1598, UL 8750
- cETLus certified
- NSF
- NEMA 4X
- IK10

OVERVIEW			
LIGHT SOURCE	LED	EFFICACY [LM/W]	130
WATTS [W]	42 - 67	COLOR TEMPERATURE [K]	3 CCT (3 500/4 000/5 000)
LUMEN OUTPUT [LM]	5 450 - 8 560	CRI	80+
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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](http://www.designlights.org/search).

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

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.

# VPL4-L

## QUICK SHIP ORDERING GUIDE



PART NO	DLC UNIQUE ID	WATTS [W]	VOLTS [VAC]	COLOR TEMP. [K] <sup>1</sup>	LUMEN OUTPUT [LM] <sup>2</sup>	EFFICA- CY [LM/W]	CRI	LIFE L70 [HRS] <sup>3</sup>	TESTED HOURS LM-80 [HRS] <sup>3</sup>	DIMMING	PF	THD [%]
VPL4-LA3-2/3C	PLY7AMDRGFU6	42	120-277	3 CCT (3 500/4 000/5 000)	5 450	130	80+	>50 000	140 000	0-10V	0.9951	7.58
VPL4-LA4-2/3C	PLAS2285WGOV	67	120-277	3 CCT (3 500/4 000/5 000)	8 560	128	80+	>50 000	140 000	0-10V	0.928	13.56
VPL4-LA3-32/3C	PLHCVTVBOLSA	42	120-347	3 CCT (3 500/4 000/5 000)	5 450	130	80+	>50 000	140 000	0-10 V	0.9981	9.53

QUICK SHIP: Product availability is subject to change without notice. Please contact your AimLite customer service representative to confirm inventory levels at time of order.

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

<sup>2</sup> Lumen values are based on 3 500 K default setting. Please refer to Quick Ship Technical Specification Table for more details on other color temperatures.

<sup>3</sup> Life hours are derived from IESNA LM-80-08 testing report and projected per IESNA TM-21-11 extrapolation.

## ORDERING GUIDE

VPL4	L			3C	/
SERIES	LAMP TYPE	LUMEN PACKAGE [LM]	VOLTS [V]	COLOR TEMP. [K]	OPTIONS
VPL4	L - LED	A3 - 5 460 A4 - 8 450	2 - 120-277 32 - 120-347	3C - 3 500 4 000 5 000	BLANK - NO SENSOR OS <sup>1,3,5</sup> - OCCUPANCY SENSOR DIM1 <sup>2</sup> - 5 WIRE CABLE FOR AC AND 0-10V DIMMING EL1 <sup>6</sup> - 1 BRIDGE NORMALLY ON EMERGENCY DL <sup>3,5</sup> - EMERGENCY BACK UP [0°C - 25°C] KV - 10KV SURGE PROTECTION L6 - 6' WHITE POWER CORD L10 - 10' WHITE POWER CORD L6-BK - 6' BLACK POWER CORD L10-BK - 10' BLACK POWER CORD CH <sup>5</sup> - CENTER HOLE 7/8" AC - AVIATION CABLE KIT PVM <sup>4</sup> - PIVOT MOUNT BRACKETS [SURFACE MOUNT CEILING AND WALL]

<sup>1</sup> To see available options, please consult the occupancy sensors section.

<sup>2</sup> When selecting DIM1 option please also select cable option whether L6, L10, L6-BK or L10-BK.

<sup>3</sup> The options DL and OSI are not compatible together.

<sup>4</sup> Pivot mount brackets [surface mount ceiling and wall].

<sup>5</sup> When selecting CH, OS and DL options, the fixture maintains wet location status, however NEMA 4X and IP rating are no longer applicable.

<sup>6</sup> When in Emergency Mode, unit only consumes 11 watts. For Emergency Lighting spacing, please see p.5.

## QUICK SHIP SPECIFICATION TABLE

ORDER CODE	3 500 K			4 000 K		5 000 K	
	WATTS [W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]
VPL4-LA3-2/3C	42	5 450	130	5 690	133	5 524	129
VPL4-LA4-2/3C	67	8 559	128	9 260	136	8 990	132
VPL4-LA3-32/3C	42	5 450	130	5 690	133	5 524	129

## DEFAULT PROGRAMMING

VPL4-LA3-2/3C	42 W/4 000 K
VPL4-LA4-2/3C	67 W/4 000 K
VPL4-LA3-32/3C	42 W/4 000 K

## BRIDGE TECHNICAL SPECIFICATION TABLE

LUMEN PACKAGE	LUMINAIRE WATT [W]	BRIDGE WATTS [W]	3 500 K	4 000 K	5 000 K
			LUMEN OUTPUT [LM]	LUMEN OUTPUT [LM]	LUMEN OUTPUT [LM]
A3	42	11	1 316	1 368	1 408
A4	65		1 316	1 368	1 408

## COMPATIBLE DIMMERS<sup>1</sup>

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

Dimming range: 10 %-100 %

<sup>1</sup> 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.

## ACCESSORIES (ORDER SEPARATELY)

PART NO	DESCRIPTION	COMPATIBLE WITH
HAR1144-1	VANDAL RESISTANT SCREW [10PCS]	ALL CONFIGURATIONS
HAR1144-BIT	BIT FOR VANDAL RESISTANT SCREW [1PC]	HAR1144-1
OSI-RC100	REMOTE CONTROL	OSI-F0-1601, OSI-FB-1601, OSI-FB-1602, OSI-FT-1601, OSI-FT-1602

## OCCUPANCY SENSORS

### ON-OFF SENSORS

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

PART NO	POSITION	VOLTS [VAC]	TECHNOLOGY	HEIGHT [FT]	DETECTION AREA [%]	HOLD TIME [MIN.]	DAYLIGHT MIN LEVEL [LUX]	REMOTE*	LOCATION**
OSE-PO-0301	EXTERNAL	120-347	PIR	20-40	100	20	N/A		DRY, -10° TO +40°C
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°C TO +40°C
OSI-FO-1501	INTERNAL	120-347 [12V]	HIGH FREQUENCY	13	100	10	DISABLE		DRY AND WET, -20° TO +40°C
OSI-FO-1601	INTERNAL	120-277	HIGH FREQUENCY	20	100	10	DISABLE	OSI-RC100	DRY AND WET, -40° TO +40°C

### BI-LEVEL SENSORS

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

PART NO	POSITION	VOLTS [VAC]	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-1501	INTERNAL	120-347	HIGH FREQUENCY	13	100	10	50	DISABLE		DRY AND WET, -20° TO +40°C
OSI-FB-1502	INTERNAL	120-347	HIGH FREQUENCY	13	100	10	30	DISABLE		DRY AND WET, -20° 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

### 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 [VAC]	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-1501	INTERNAL	120-347	HIGH FREQUENCY	13	100	10	30	20	DISABLE		DRY AND WET, -20° TO +40°C
OSI-FT-1502	INTERNAL	120-347	HIGH FREQUENCY	13	100	10	30	20	50		DRY AND WET, -20° 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

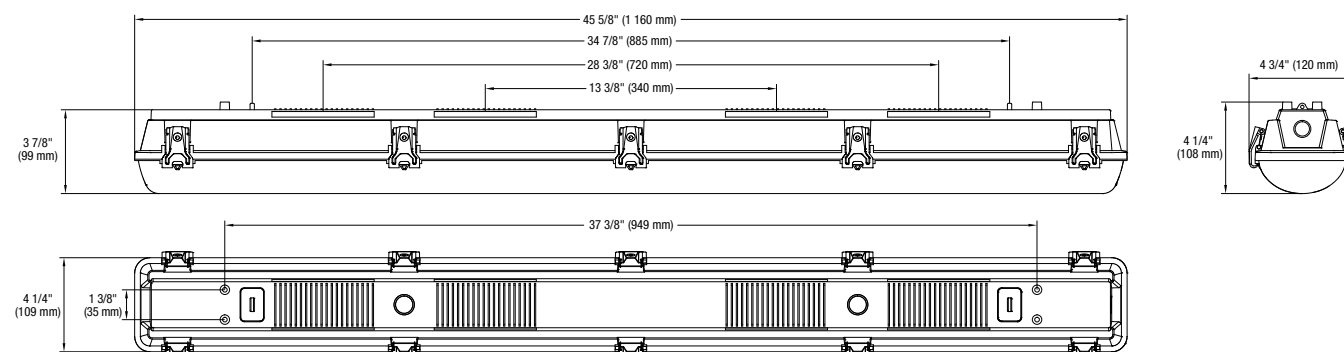
\* To be ordered separately.

\*\* 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/](http://www.aimlite.com/documentation/technical-information/)

## DIMENSIONS



## BRIDGE

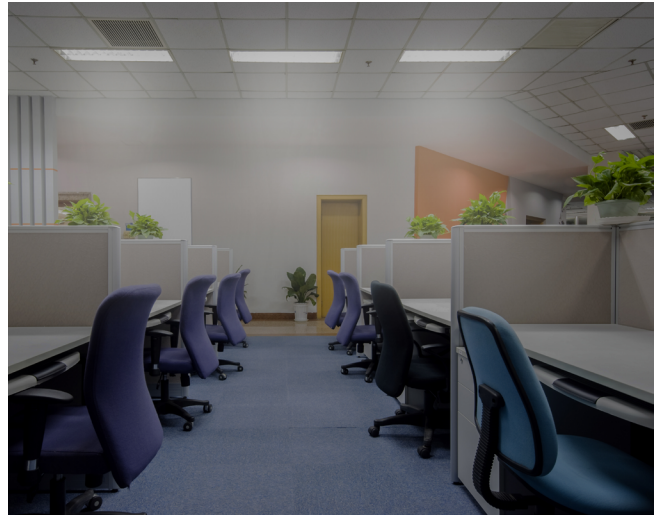
### NORMALLY ON EMERGENCY REMOTE LUMINAIRE

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 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 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 1316 to 1408 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.

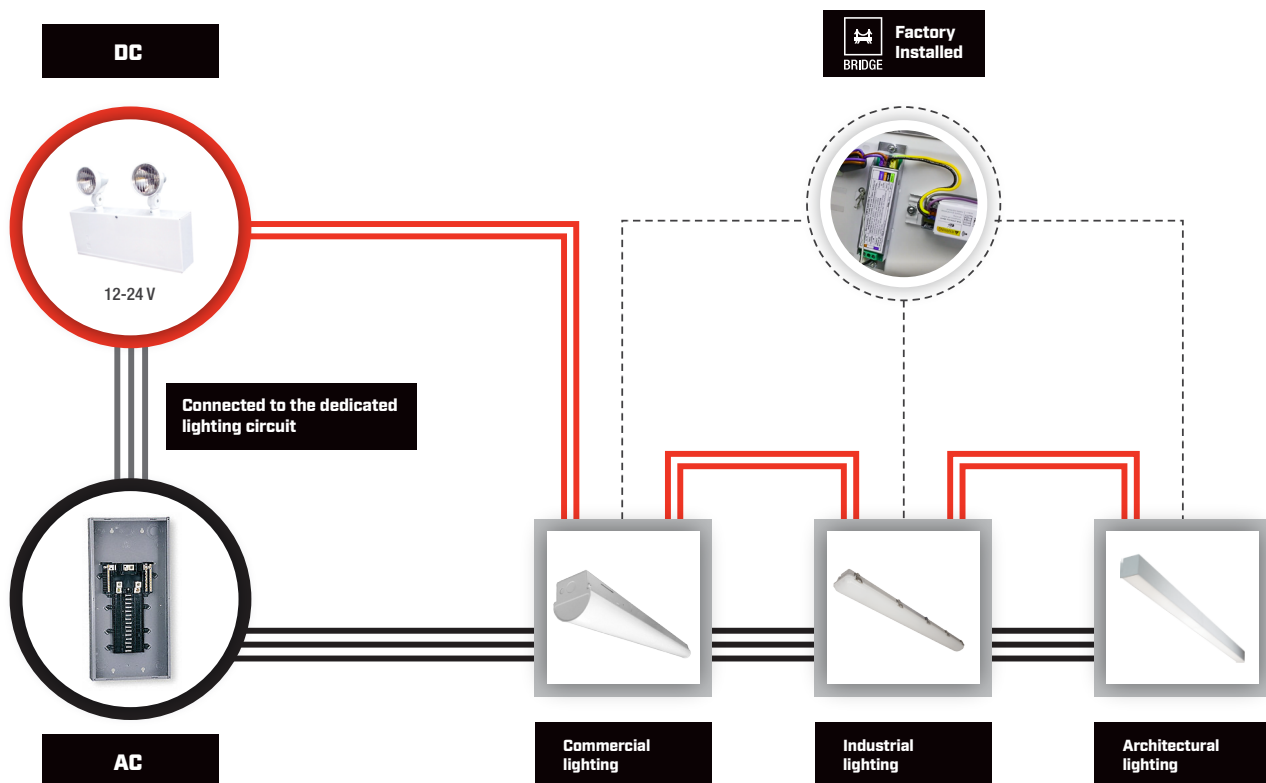
The automated testing performed by the AimLite Auto-Test system has been designed to comply with all of the requirements of the National Fire Code. Every month a 5 minute discharge and diagnostic test checks the operational status of the unit. Every 12 months this test is extended to the full 30 minute, 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\_ \_\_\_\_\_

## 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
VPL4- L	42 foot spacing <sup>1</sup>

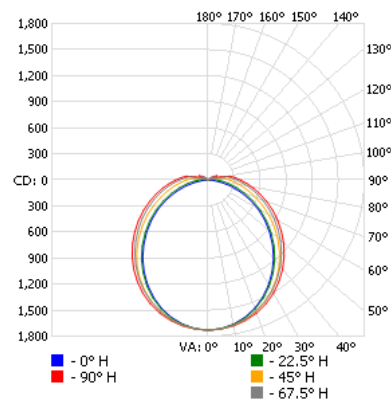
<sup>1</sup> Applicable for 8',10' or 12' ceilings

# VPL4-L

## PHOTOMETRIC DATA<sup>1</sup>

VPL4-LA3-[2-32]/3C • 4 000 K • 5 690 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 334.7	23.5%
0-40	2 182.8	38.4%
0-60	3 880.2	68.2%
60-90	1 473.9	25.9%
70-100	993.7	17.5%
90-120	296.5	5.2%
0-90	5 354.2	94.1%
90-180	336.0	5.9%
0-180	5 690.1	100%

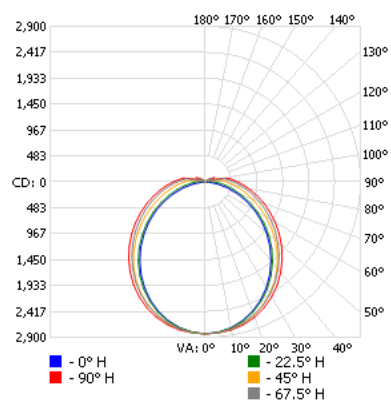
### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
4.3'	93.5	11.1'	16.8'
8.7'	22.8	22.5'	34.0'
13.0'	10.2	33.6'	50.8'
17.3'	5.78	44.7'	67.6'
21.7'	3.67	56.1'	84.7'
26.0'	2.56	67.2'	101.5'

■ Vert. spread: 104.5° ■ Hor. spread: 125.8°

VPL4-LA4-[2-32]/3C • 4 000K • 9 260 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	2 188.8	23.6%
0-40	3 577.5	38.6%
0-60	6 342.4	68.5%
60-90	2 378.9	25.7%
70-100	1 603.4	17.3%
90-120	477.1	5.2%
0-90	8 721.3	94.2%
90-180	539.0	5.8%
0-180	9 260.3	100%

### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
4.3'	153	11.0'	16.6'
8.7'	37.4	22.2'	33.6'
13.0'	16.8	33.2'	50.2'
17.3'	9.46	44.2'	66.8'
21.7'	6.01	55.4'	83.7'
26.0'	4.19	66.4'	100.3'

■ Vert. spread: 103.8° ■ Hor. spread: 125.2°

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