Project _____ Type _____

Catalogue n° _____ Date _____

AimLite

VWP4-L GEN 2
4' LED VAPOR TIGHT
SPECIFICATION GRADE MULTI-PURPOSE LUMINAIRE
OPTIONAL EMERGENCY REMOTE

The VWP 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 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.

APPLICATIONS

- Food processing facilities
- Commercial kitchens
- Breweries and bottling facilities
- Industrial facilities
- Livestock containment buildings
- Under awnings
- Exterior retails areas
- Marinas and offshore
- Pedestrian tunnels
- Pools

FEATURES & SPECIFICATIONS

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 require ments of Enclosures for Electrical Equipment NEMA 4X

Driver

- 120 V, 120-277 V, 347 V
- 0-10V dimming driver (down to 1%). 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)
BRIDGE: -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

BRIDGE Normally ON LED Vapor Tight Luminaire

- Consuming 11 W, 12 - 24 V DC
- 200 mA constant current
- Delivers 1 179 - 1 364 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 LED vapor tight 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

COMPLIANCES

- Premium quality
- 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	**COLOR TEMPERATURE (K)**	3 000, 3 500, 4 000, 5 000
WATTS (W)	27 - 93	**CRI**	80+, 90+
LUMEN OUTPUT (LM)	3 652 - 13 090	**WEIGHT (LBS)**	13
EFFICACY (LM/W)	127 - 145		

WARRANTY 5 YEAR WARRANTY

BRIDGE[1] EMERGENCY LIGHTING LUMINAIRE REMOTE NORMALLY ON

PREMIUM QUALITY

LED

WET LOCATION

66 IP RATING

67 IP RATING

ICES 005

C US

NSF

DLC LISTED PREMIUM

DLC LISTED

[1] 5 year warranty for the BRIDGE 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.

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.

VWP4-L GEN 2

ORDERING GUIDE

VWP4 —L — — — / /

SERIES	LAMP TYPE	LUMEN PACKAGE (LM)	CRI	VOLTS (VAC)	COLOR TEMP. (K)	OPTIONS	
VWP4	L - LED	A1B - A2B - A3B - A4B - A5B - REFER TO LUMEN CHART TABLE FOR DETAILS	80 - 80+ 90[7] - 90+	4 - 120 8 - 347 2 - 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
						KV -	10KV SURGE PROTECTOR
						TP[1] -	VANDAL RESISTANT KIT (INCLUDES 6PCS SCREWS)
						DL[2, 11] -	AC AND EMERGENCY BACKUP (FROM 0°C - 25°C) 120 V, 120-277 V
						DIM1[3] -	5 WIRE CABLE FOR AC AND 0-10 V DIMMING
						DIM2[4] -	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[5] -	OCCUPANCY SENSOR
						AC[6] -	AVIATION CABLE KIT
						EL[8] -	BRIDGE NORMALLY ON EMERGENCY REMOTE
						RMP-05[9, 11] -	RIGID MONO POINT ON THE LUMINAIRE WITH 3/4" CENTER HOLE FOR 1/2 NPT CONDUIT
						RMP-075[9, 11] -	RIGID MONO POINT ON THE LUMINAIRE WITH 1" CENTER HOLE FOR 3/4 NPT CONDUIT
						RGB-45[10] -	45º MOUNT BRACKET

[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. Not compatible with the following options: EL, RMP-05, RMP-075.
[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 the CCT.
[8] The BRIDGE Emergency Power conversion module is compatible with all the following all configurations: LA1B, LA2B, LA3B, LA4B, LA5B. Not compatible with the following options: DL, EH, OS (external), RMP-05, RMP-075. When in Emergency Mode, luminaire only consumes 11W.
[9] RMP-05 and RMP-075 are not available for LS5B lumen package.
[10] Horizontal wall mount or ceiling mount.
[11] 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

LUMEN PACKAGE	WATTS (W)	VOLTS (VAC)	3 000 K		3 500 K		4 000 K		5 000 K		CRI	LIFE L70 (HRS)	TESTED HOURS LM-80 (HRS)	THD (%)	PF
			LUMEN OUTPUT (LM)	EFFICACY (LM/W)	LUMEN OUTPUT (LM)	EFFICACY (LM/W)	LUMEN OUTPUT (LM)	EFFICACY (LM/W)	LUMEN OUTPUT (LM)	EFFICACY (LM/W)					
A1B	27	120-277 347	3 652	135	3 773	139	3 860	142	3 922	145	80+	>54 000	9,000	0.94	13
A2B	37		4 718	127	4 874	132	4 987	135	5 068	137				0.92	15
A3B	50		6 574	133	6 791	137	6 948	140	7 060	142				0.92	9
A4B	62		8 286	133	8 560	138	8 759	141	8 900	143				0.97	10
A5B	93		12 190	130	12 590	135	12 880	138	13 090	140				0.98	7

BRIDGE TECHNICAL SPECIFICATION TABLE

LUMEN PACKAGE	BRIDGE WATTS (W)	BRIDGE WATTS (W)	3 000 K	3 500 K	4 000 K	5 000 K
			BRIDGE LUMEN OUTPUT (LM)	BRIDGE LUMEN OUTPUT (LM)	BRIDGE LUMEN OUTPUT (LM)	BRIDGE LUMEN OUTPUT (LM)
LA1B	31	11	1 270	1 312	1 342	1 364
LA2B	40					
LA3B	60		1 179	1 218	1 246	1 266
LA4B	79					
LA5B	93		1 258	1 300	1 330	1 351

VWP4-L GEN 2

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	N/A	DRY, -10°C TO 40°C
OSE-PO-0501	EXTERNAL	120-347	PIR	15-40	100	15	3000	OSI-FSIR-100	DRY, 0°C TO 40°C
OSE-PO-0502	EXTERNAL	120-347	PIR	15-40	100	15	3000	N/A	DRY, 0°C TO 40°C
OSE-PO-0701	EXTERNAL	120-277	PIR	20	100	15	N/A	N/A	WET, -40°C TO 40°C
OSE-PO-0801	EXTERNAL	347	PIR	20	100	15	N/A	N/A	WET, -40°C TO 40°C
OSI-FO-0301	INTERNAL	120-277V	HIGH FREQUENCY	32 MAX	100%	20MIN	DISABLE	N/A	DRY AND WET, -25°C TO +40°C
OSI-FO-0601	INTERNAL	120-347V	HIGH FREQUENCY	25 MAX	100%	30MIN	DISABLE	OSI-RC-MH02	DRY AND WET, -35°C TO +40°C
OSI-FO-0602	INTERNAL	120-347V	HIGH FREQUENCY	25 MAX	100%	15MIN	DISABLE	OSI-RC-MH02	DRY AND WET, -35°C TO +40°C
OSI-FO-0603	INTERNAL	120-347V	HIGH FREQUENCY	25 MAX	100%	15MIN	100 LUX	OSI-RC-MH02	DRY AND WET, -35°C TO +40°C

* To be ordered separately. B

** Min and max ambient temperature of the fixture with the specific sensor. Please verify fixture temperature on the first page for compatibility with sensor.

BI-LEVEL SENSORS

Detection - On at *(Detection Area)* % during *(Hold Time)* min., then *(Stand-by Dim level)* %

PART NO	POSITION	VOLTS (VAC)	TECHNO-LOGY	HEIGHT (FT)	DETECTION AREA (%)	HOLD TIME (MIN.)	STAND-BY DIM LEVEL (%)	DAYLIGHT MIN LEVEL (LUX)	REMOTE*	LOCATION**
OSE-PB-0202	EXTERNAL	120-347	PIR	20	100	30	40	DISABLE	OSI-FSIR-100	WET, -40°C TO 40°C
OSI-FB-0301	INTERNAL	120-277	HIGH FREQUENCY	32 MAX	100	20	30	DISABLE	N/A	DRY AND WET, -25°C TO 40°C
OSI-FB-0302	INTERNAL	120-277	HIGH FREQUENCY	32 MAX	100	20	10	DISABLE	N/A	DRY AND WET, -25°C TO 40°C
OSI-FB-0303	INTERNAL	120-277	HIGH FREQUENCY	32 MAX	100	20	50	DISABLE	N/A	DRY AND WET, -25°C TO 40°C
OSE-FB-0402	EXTERNAL	120-347	HIGH FREQUENCY	50 MAX	100	20	30	50 LUX	OSI-RC-MH02	WET, -35°C TO 40°C
OSI-FB-0603	INTERNAL	120-347	HIGH FREQUENCY	25 MAX	100	15	40	DISABLE	OSI-RC-MH02	DRY AND WET, -35°C TO 40°C
OSI-FB-0604	INTERNAL	120-347	HIGH FREQUENCY	25 MAX	100	30	40	DISABLE	OSI-RC-MH02	DRY AND WET, -35°C TO 40°C
OSI-FB-0605	INTERNAL	120-347	HIGH FREQUENCY	25 MAX	100	15	30	DISABLE	OSI-RC-MH02	DRY AND WET, -35°C TO 40°C
OSI-FB-0606	INTERNAL	120-347	HIGH FREQUENCY	25 MAX	100	15	10	DISABLE	OSI-RC-MH02	DRY AND WET, -35°C 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.

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)	TECHNO-LOGY	HEIGHT (FT)	DETECTION AREA (%)	HOLD TIME (MIN.)	STAND-BY DIM LEVEL (%)	STAND-BY PERIOD (MIN)	DAYLIGHT MIN LEVEL (LUX)	REMOTE*	LOCATION**
OSI-FT-0301	INTERNAL	120-277	HIGH FREQUENCY	32 MAX	100	20	30	10	DISABLE	N/A	DRY AND WET, -25°C TO 40°C
OSE-FT-0402	EXTERNAL	120-347	HIGH FREQUENCY	50 MAX	100	30	30	10	50	OSI-RC-MH02	WET, -35°C TO 40°C
OSI-FT-0601	INTERNAL	120-347	HIGH FREQUENCY	25 MAX	100	30	30	10	DISABLE	OSI-RC-MH02	DRY AND WET, -35°C 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/

VWP4-L GEN 2

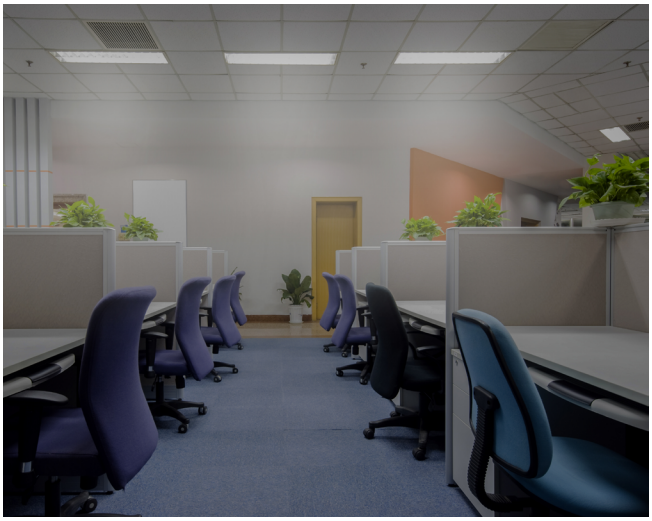
BRIDGE

NORMALLY ON EMERGENCY REMOTE LUMINAIRE

This luminaire 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, mModel 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 an AimLite 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 an 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 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 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 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 ensures that the battery charger is recharging the battery in accordance with code requirements.

The unit shall be AimLite model: EBST_____

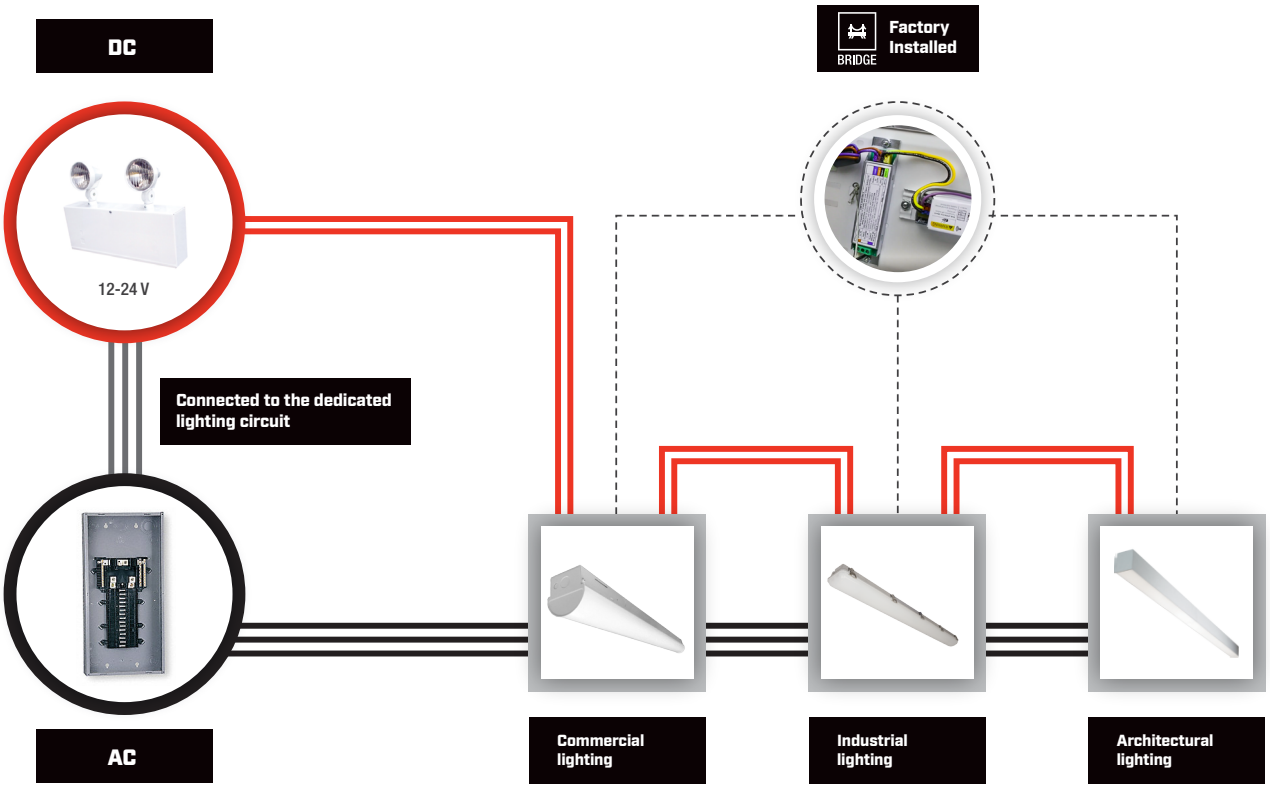
T 514 227-1288 TF 1 866 348-2374 aimlite.com

VWP4-L GEN 2

BRIDGE
NORMALLY ON EMERGENCY REMOTE LUMINAIRE

BRIDGE WIRING DIAGRAM

BRIDGE
REMOTE NORMALLY **ON**
EMERGENCY LIGHTING
LUMINAIRE



LEGEND

AC wires | Connected to the dedicated lighting circuit | DC wires | BRIDGE Factory Installed

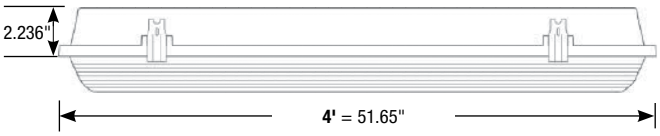
Emergency mode	Spacing
VWP4-L GEN 2	Average spacing for 1 out of every 4 luminaires, normally ON in the path of egress, when at 8, 10, or 12 foot mounting heights.

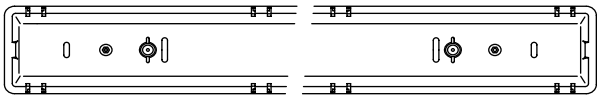
Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

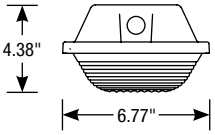
T 514 227-1288 TF 1 866 348-2374 aimlite.com

VWP4-L GEN 2

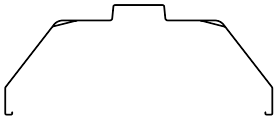
DIMENSIONS



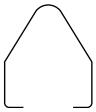




CEILING MOUNTING BRACKETS



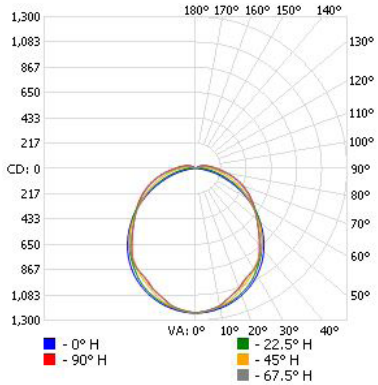
BAIL BRACKETS



PHOTOMETRIC DATA[1]

VWP4-LA1B-80-(2/4/8)/40K • 3 859 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	934.2	24.2
0-40	1 529.2	39.6
0-60	2 698.1	69.9
60-90	949.4	24.6
70-100	604.0	24.6
90-120	192.6	5
0-90	3 647.4	94.5
90-180	211.7	5.5
0-180	3 859.1	100

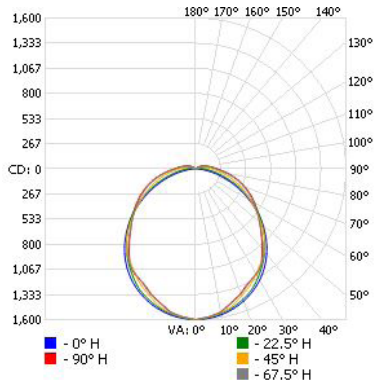
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
1.7'	428		4.9'	4.9'
3.3'	114		9.5'	9.6'
5.0'	49.5		14.4'	14.5'
6.7'	27.6		19.3'	19.4'
8.3'	18.0		23.9'	24.0'
10.0'	12.4		28.8'	28.9'

■ Vert. Spread: 110.4° ■ Hor. Spread: 110.7°

VWP4-LA2B-80-(2/4/8)/40K • 4 986 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 206.9	24.2
0-40	1 975.7	39.6
0-60	3 485.5	69.9
60-90	1 226.5	24.6
70-100	780.4	15.7
90-120	248.8	5
0-90	4 712.4	94.5
90-180	273.5	5.5
0-180	4 985.9	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
1.7'	553		4.9'	4.9'
3.3'	147		9.5'	9.6'
5.0'	63.9		14.4'	14.5'
6.7'	35.6		19.3'	19.4'
8.3'	23.2		23.9'	24.0'
10.0'	16.0		28.8'	28.9'

■ Vert. Spread: 110.4° ■ Hor. Spread: 110.7°

[1] Complete IES files available on our website.

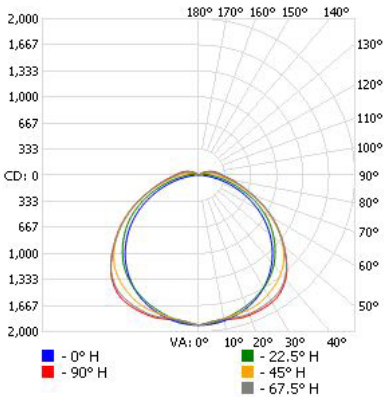
T 514 227-1288 TF 1 866 348-2374 aimlite.com

VWP4-L GEN 2

PHOTOMETRIC DATA[1]

VWP4-LA3B-80-(2/4/8)/40K • 6 947 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 538.2	22.1
0-40	2 600.7	37.4
0-60	4 819.5	69.4
60-90	1 733.0	24.9
70-100	1 081.2	15.6
90-120	363.1	5.2
0-90	6 552.5	94.3
90-180	394.7	5.7
0-180	6 947.2	100

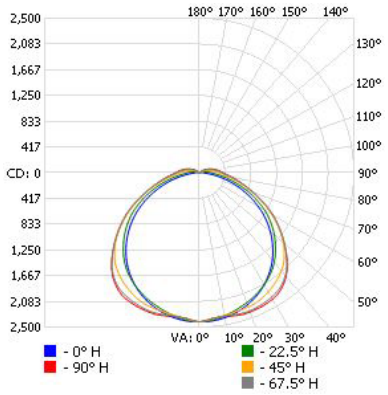
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	663	5.4'	6.8'
3.3'	176	10.4'	13.2'
5.0'	76.6	15.8'	20.1'
6.7'	42.7	21.1'	26.9'
8.3'	27.8	26.2'	33.3'
10.0'	19.1	31.6'	40.1'

Vert. Spread: 115.3° Hor. Spread: 127.0°

VWP4-LA4B-80-(2/4/8)/40K • 8 758 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 939.2	22.1
0-40	3 278.6	37.4
0-60	6 075.7	69.4
60-90	2 184.7	24.9
70-100	1 363.1	15.6
90-120	457.8	5.2
0-90	8 260.4	94.3
90-180	497.6	5.7
0-180	8 757.9	100

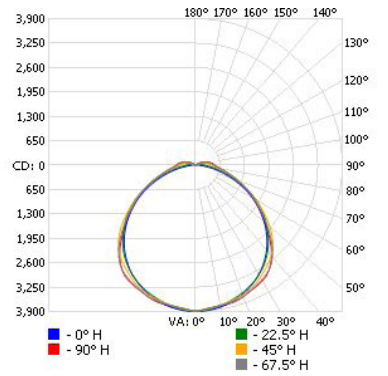
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	835	5.4'	6.8'
3.3'	222	10.4'	13.2'
5.0'	96.5	15.8'	20.1'
6.7'	53.8	21.1'	26.9'
8.3'	35.0	26.2'	33.3'
10.0'	24.1	31.6'	40.1'

Vert. Spread: 115.3° Hor. Spread: 127.0°

VWP5-LA4B-80-(2/4/8)/40K • 12 879 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	3 072.2	23.9
0-40	5 128.7	39.8
0-60	9 212.5	71.5
60-90	2 963.2	23
70-100	1 826.6	14.2
90-120	646.1	5
0-90	12 175.8	94.5
90-180	703.3	5.5
0-180	12 879.1	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	1 346	5.3'	5.3'
3.3'	357	10.2'	10.2'
5.0'	156	15.5'	15.5'
6.7'	86.7	20.8'	20.7'
8.3'	56.5	25.8'	25.7'
10.0'	38.9	31.0'	30.9'

Vert. Spread: 114.4° Hor. 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.