

VWX4-L GEN. 2 HAZARDOUS LOCATION LED VAPOR TIGHT

CLASS I, DIVISION 2 & CLASS III, DIVISION 1 & 2

The VWX4-L is a series of vapor and dust tight fixtures specially designed for use in hazardous environments where flammable vapors or gases are present.



APPLICATIONS

- Clean rooms
- Locker rooms
- Computer areas
- Fuel storage areas
- Chemical processing facility
- Petrochemical processing facility
- Loading docks

FEATURES AND SPECIFICATIONS

CONSTRUCTION

Housing

- One-piece reinforced white fiberglass housing
- A closed cell, high-temperature poured-in-place gasket and polycarbonate latches seal the enclosure from the most hostile environments

Lens

- The fixture comes standard with an impact resistant acrylic frosted lens. Other options available, see ordering guide

SPECIFICATIONS

- Wash down design
- Easy to clean and service
- Very durable
- LED technology for long term energy savings
- Stainless steel latches are available

Driver

- 120-277 V and 347 V
- 0-10 V dimming driver (LA1B-LA3B: down to 10%, LA4B: down to 5%). Dimming cables sold separately, see options table
- 6kV surge protection (standard). See options table for additional surge protection

Operating temperature

-40°C to +40°C
 [-40°F to +104°F]

Mounting

Ceiling mounting brackets and mounting bail brackets for suspended mount included. Hardware in stainless steel

COMPLIANCES

- Class I - Division 2, Groups A, B, C and D, T4A for ambient 40°C and T5 for ambient of 25°C
- Class III - Division 1 & 2, T4A for ambient 40°C and T5 for ambient of 25°C
- Hazardous location
- Suitable for damp and wet location
- 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 (Splash Zone and Non Food Zone)
- Meets requirements of NEMA 4X
- Meets requirements of ICES-005 for class A products
- CSA certified to C22.2 #250.0, #250.13, #137, #141
- CSA
- UL1598, UL8750

OVERVIEW			
LIGHT SOURCE	LED	CRI	80+, 90+
WATTS [W]	27 - 62	WEIGHT [LBS]	14.15
LUMEN OUTPUT [LM]	3 652 - 8 900	OPERATING TEMPERATURE [°C]	-40 °C TO +40 °C
EFFICACY [LM/W]	127 - 145	CONSTRUCTION	FIBERGLASS HOUSING, IMPACT RESISTANT ACRYLIC LENS, POM LATCHES AND STAINLESS STEEL MOUNTING HARDWARE
COLOR TEMPERATURE [K]	3 000, 3 500, 4 000, 5 000	MOUNTING	SURFACE, SUSPENDED
         			

VWX4-L GEN. 2

ORDERING GUIDE

SERIES	LAMP TYPE	LUMEN PACKAGE [LM]	CRI	VOLTS [VAC]	COLOR TEMP. [K]	OPTIONS
VWX4	L - LED	A1B - REFER TO THE A2B - TECHNICAL A3B - SPECIFICATION A4B - TABLE FOR MORE DETAILS	80 - 80 90 - 90	2 - 120-277 8 - 347	30K - 3 000 35K - 3 500 40K - 4 000 50K - 5 000	SS - STAINLESS STEEL LATCHES KV - 10KV SURGE PROTECTOR DL ^{1,2} - EMERGENCY BACK UP [0°C TO +25°C], FOR 120-277V ONLY PC - POLYCARBONATE RIBBED FROSTED LENS SFAL - SMOOTH FROSTED ACRYLIC LENS SFPL - SMOOTH FROSTED POLYCARBONATE LENS TP - VANDAL RESISTANT SCREWS L6 - 6' WHITE POWER CORD L10 - 10' WHITE POWER CORD L6-BK - 6' BLACK POWER CORD L10-BK - 10' BLACK POWER CORD AC ³ - AVIATION CABLE KIT RGB-45 ⁴ - WALL MOUNT BRACKET [45°]

¹ When selecting DL option, the fixture maintains wet location status, however, NEMA 4X and IP ratings are no longer applicable

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 Aviation cable length based in selected power cable length

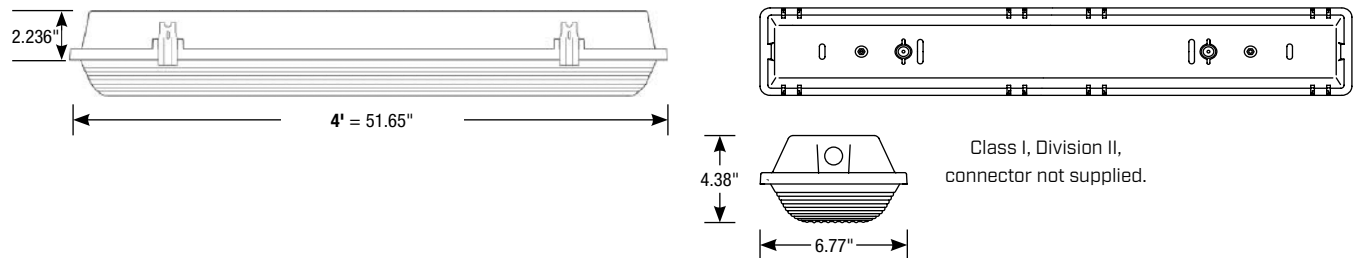
⁴ Horizontal wall mount

TECHNICAL SPECIFICATION TABLE¹

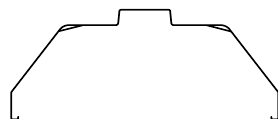
LUMEN PACKAGE	WATTS	VOLTS	3 000 K		3 500 K		4 000 K		5 000 K		CRI	LIFE L70	TESTED HOURS LM-80	THD	PF
	[W]		[VAC]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]					
A1B	27	120-277	3 652	135	3 773	139	3 860	142	3 922	145	80+	>54 000	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

¹ Lumen values are based on standard acrylic ribbed frosted lens. For other lens options, please refer to IES files

DIMENSIONS



CEILING MOUNTING BRACKETS¹



BAIL BRACKETS¹



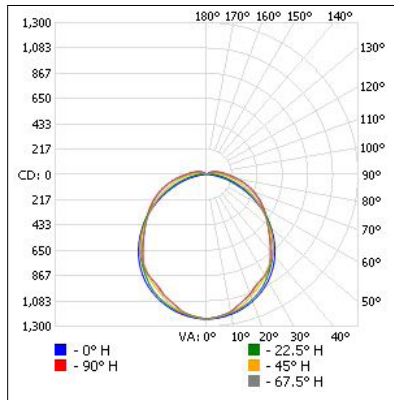
¹ Included.

VWX4-L GEN. 2

PHOTOMETRIC DATA

VWX4-LA1B-80-(2/8)/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

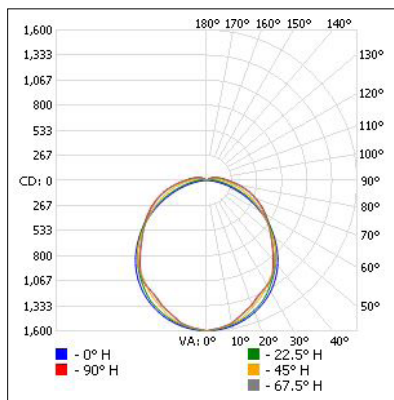
ILLUMINANCE AT A DISTANCE

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°

VWX4-LA2B-80-(2/8)/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

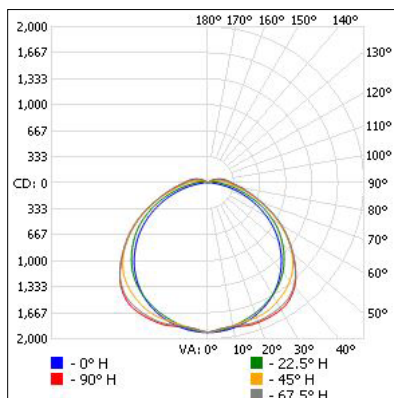
ILLUMINANCE AT A DISTANCE

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°

VWX4-LA3B-80-(2/8)/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°

¹ Complete IES files available on our website.

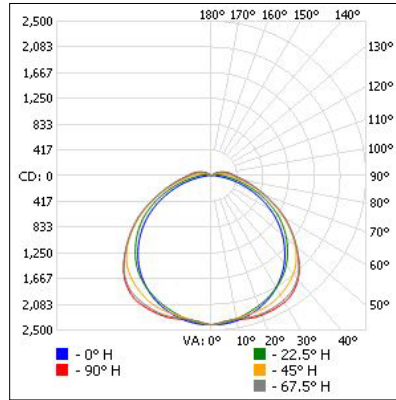
All products are subject to change or may be discontinued any time without notice.
Please consult our chemical resistance guide to ensure selection of the proper product for your application.

VWX4-L GEN. 2

PHOTOMETRIC DATA

VWX4-LA4B-80-[2/8]/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°

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