



Class I, Div. 1 & 2
Zones 1 & 2

KILLARK®



EXPANDING RANGE of HARSH & HAZARDOUS LED LUMINAIRES and SYSTEMS



LED MINI-CATALOG



Scan QR Code with
your mobile device





LAL/LALxE/LALC SERIES

KILLARK

LOW PROFILE LINEAR ALUMINUM LED • EXCLUSIVE DESIGN FEATURES

High temperature rated silicone gasketing provides NEMA 4X & IP66 sealing.



Diffused



Clear

2 Lens Choices:

- Clear for maximum lumens
- Diffused for glare control

Looping Terminal Blocks under Wiring Access Plate(s).



Optional Through Wiring

2 Access Plates for feed through wiring



Battery

E13 and E26 models include internal Emergency battery systems to 50°C suitability

Surge

Standard with internal 20kA/10kA Supplemental Surge Protection

Endcaps standard with 1 x 3/4" hub. 1/2" NPT and M20 available.



Shown with LAL-SB Height adjustable Swivel Brackets

End Caps include feet for direct ceiling mounting and safety cable connection



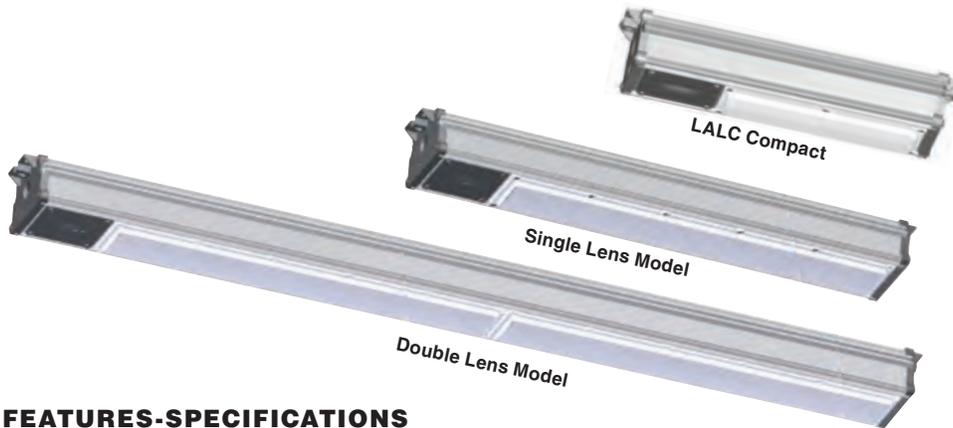
Mounting Slots on back and at 45°

Earth

External Earth Ground for IECEx requirement



LINEAR LED TECHNOLOGY



FEATURES-SPECIFICATIONS

Applications

Linear LED Luminaires are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, and NEMA 3, 4X, IP66 areas where wind, water, snow or high ambients can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC/CEC/IEC.

Typical applications include land based oil rigs, offshore oil platforms, dockside installations, chemical and petrochemical processing facilities, sewage treatment plants, garages, storage facilities, tunnels, and grain/food facilities.

ABS (American Bureau of Shipping) type approval for use on decks, vessels, platforms, barges, ships and boats. Also suitable for docks and marinas.

Compliances

- UL-8750 for LED lighting
- ANSI/UL 1598(A)
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 2; Class II, Divisions 1 and 2; Class III
- CSA C22.2 no. 137-M1981 electric luminaires for use in hazardous locations
- IEC suffix Zone 2/21 to IEC 60079-0, 60079-15, 60079-31 Standards
- Enclosed and gasketed
- NEMA 3, 4X
- IP66

Materials

- NEMA 4X & IP66 rated
- Housing – one piece natural finish $\leq .001$ copper-free aluminum extrusion

- Endcaps & wiring – Access covers are copper-free ($\leq .004$) aluminum with gray baked powder epoxy-polyester finish, electrostatically applied for complete uniform corrosion resistance.
- External screws are 316 stainless steel
- Lens – Impact resistant polycarbonate lens available in diffuse or clear

LAL & LALxE Product Features

- LALxE models have “built-in” battery backup for 90 minute emergency exit
- Shallow design minimizes profile in work areas with low ceiling heights
- Diffuse Lens Standard to minimize glare; Clear Lens available
- Polycarbonate Single Lens 18W to 60W; Double Lens model 34W – 120W
- Slot Back Design allows multiple mounting access points across length – slots can also be used with 5/16” or 8mm bolts & nuts, 3 housing slots, 1 center back and 2 at 45°.
- Variety of mounting options including swivel brackets, wall, ceiling brackets, or beam clamps
- End Caps each have 2 mounting feet built-in plus a safety strap attachment point
- Standard unit End Caps each have single a 3/4” NPT hub, and fixture is furnished with one 3/4” close-up plug and two 3/4” to 1/2” reducers – provides out of the box 1/2” dead-end to 3/4” feed-through flexibility. Metric openings are available.
- Standard LALs have one wiring Access Plate for easy access to driver leads.
- Supplemental **20KA/10KV Surge Protection** is **standard** (for AC models)

Class I, Div. 2, Groups A, B, C, D
Class I, Zone 2, Groups IIC, IIB, IIA
Class II, Div. 1 & 2, Groups E, F, G
AEx nAll, Ex nAll
Wet Locations
NEMA 4X
IP66

Certified - File LR11713

IECEx Rated
Zone 2 and Zone 21 areas
Ex nA IIC T6 to T3, Gc
Ex tb IIC T95°C Db
Tamb -50°C \leq Tz \leq +65°C, IP66
IECEx Certificate
QPS 15.0010

ATEX Certificate
CML 15ATEX4081X (nA)
&
CML15ATEX3082X (tb)



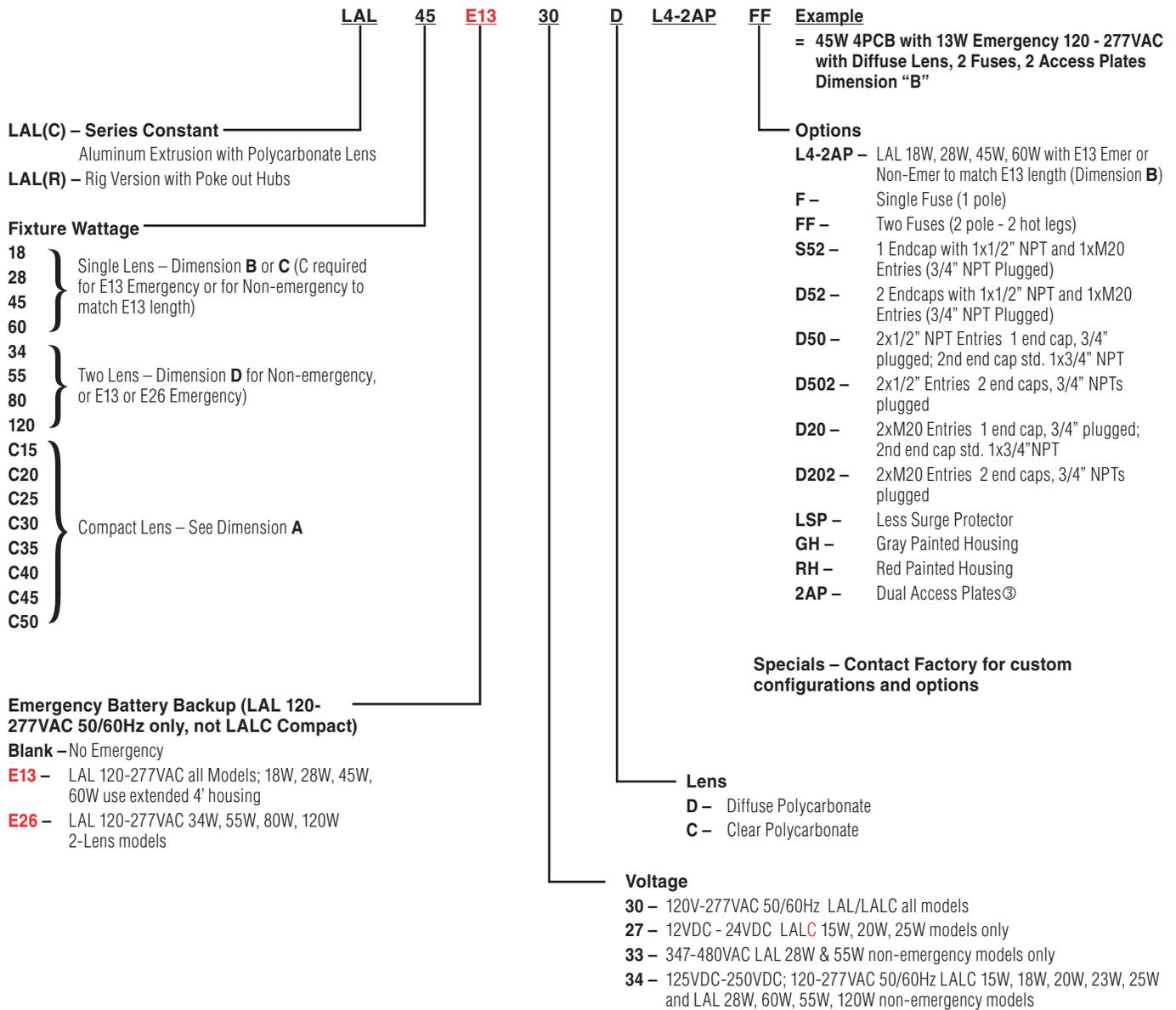
LED Features and Standards

- Many Midpower LEDs blend light to simulate fluorescent tubes
- Crisp White Light for Excellent Color Rendering – Chromaticity 5000K (CCT); approx. 70 CRI
- Energy Savings – High lumens per watt
- LED Array Life – to 212,000 maintenance free hours to 70% initial lumens
- Ambient suitability -40°C to 65°C (see tables). **50° Ambient limit for Emergency models.**
- Instant On – Including after power interruption
- World Voltage 120 - 277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant
- LM80-08* Measurement of lumen maintenance for LED light sources
- LM79-08* Certified “Absolute” Photometry, including Chromaticity Color for Solid State Lighting
- L70 Values – Industry Nomenclature for Hours of use to 70% of initial Lumens – TM-21* & Calculated

** LM-xx & TM-xx are Illumination Engineering Society Standards designed to promote uniformity in testing procedures among test labs and manufacturers. For more information go to www.ies.org*



CATALOG LOGIC



Energy Savings

LED VS FLUORESCENT WATTAGE & DELIVERED LUMENS ^{① ②}					
LED WATT	LUMENS	L/W	FLUORESCENT	LUMENS	L/W
18W	2557	150	40W 1x40W BX	2471	63
28W	3775	144	55W 1x55W BX	3766	65
34W	5075	149	56W 2x28T5	4676	71
45W	5562	137	64W 2x32T8	4772	80
55W	7577	144	108W 2x54T5HO	8088	67
60W	7618	132	120W 2x60T12HO	6965	56
80W	11140	137	162 3x54T5HO	11619	65

① Cataloged Wattage in L22x Fluorescent or LALx LED luminaires – actual varies with driver or ballast losses – Delivered Lumens and L/W from photometry testing

② LAL L70 Life 99,600-212,000 hours L22x Fluorescent 10,000-60,000 hours LED array calculated L70 life depending on ambient temperature. L70 values indicate 70% of initial illumination after "x" hours (see next page). Fluorescent typically operates to 20,000 hours (some wattages as few as 10,000 hours; specialty 32W lamps to 60,000 hours)

③ 2AP Length Dimensions will increase by 4.2".

LIGHTING

LAL/LALxE/LALC SERIES



ORDERING INFORMATION

ORDERING INFORMATION AND AMBIENT SUITABILITY							C1D2 ABCD/ ZONE 2 IIC, IIB, IIA ^⑤			C1D2 ^⑤ GRPS. EFG SIMULTANEOUS			C2D1 ^⑤ GRPS. EFG			IEC ZONE 2			IEC ZONE 21		
CATALOG NUMBER W/ DIFFUSE LENS ①	WEIGHT LBS./ KG ②	WATTS STD. POWER	LENGTH ③	VOLTAGE	AMPS ③	Lumens Diffuse/ Clear	40C	55C ⑦	65C ⑦	40C	55C ⑦	65C ⑦	40C	55C ⑦	65C ⑦	40°C	55°C ⑦	65°C ⑦	40°C	55°C ⑦	65°C ⑦
LAL1830D	17.9 / 8.1	18	B-32.6 (828)	120-277VAC	0.15 - 0.06	2272 / 2479	T6	T6	T5	T4A	T4A	T4A	T4A	T4A	T4A	T6	T6	T5	T4	T4	T4
LAL1830D-L4-2AP	21.9 / 9.9		C-51 (1295)				T6	T6	T5	T4A	T4A	T4A	T4A	T4A	T4A	T6	T6	T5	T4	T4	T4
LAL18E1330D-L4-2AP	31.9 / 14.5		C-51 (1295)				T6	T6	T5	T4A	T4A	T4A	T4A	T4A	T4A	T6	T6	T5	T4	T4	T4
LAL2830D	17.9 / 8.1	28	B-32.6 (828)	120-277VAC	0.23 - 0.10	3321 / 3624	T6	T6	T5	T4A	T4A	T4A	T4A	T4A	T4A	T6	T6	T5	T4	T4	T4
LAL2830D-L4-2AP	21.9 / 9.9		C-51 (1295)				T6	T6	T5	T4A	T4A	T4A	T4A	T4A	T4A	T6	T6	T5	T4	T4	T4
LAL28E1330D-L4-2AP	31.9 / 14.5		C-51 (1295)				T6	T6	T5	T4A	T4A	T4A	T4A	T4A	T4A	T6	T6	T5	T4	T4	T4
LAL4530D	17.9 / 8.1	45	B-32.6 (828)	120-277VAC	0.38 - 0.16	5054 / 5515	T6	T5	-	T4A	T4A	T4A	T4A	T4A	T4A	T6	T5	T5	T4	T4	T4
LAL4530D-L4-2AP	21.9 / 9.9		C-51 (1295)				T6	T5	-	T4A	T4A	T4A	T4A	T4A	T4A	T6	T5	T5	T4	T4	T4
LAL45E1330D-L4-2AP	31.9 / 14.5		C-51 (1295)				T6	T5	-	T4A	T4A	-	T4A	T4A	-	T6	T5	-	T4	T4	-
LAL6030D	18.9 / 8.6	60	B-32.6 (828)	120-277VAC	0.50 - 0.22	7064 / 7709	T6	T5	-	T4A	T4A	-	T4A	T4A	-	T6	T5	-	T4	T4	-
LAL6030D-L4-2AP	22.9 / 10.4		C-51 (1295)				T6	T5	-	T4A	T4A	-	T4A	T4A	-	T6	T5	-	T4	T4	-
LAL60E1330D-L4-2AP	32.9 / 14.9		C-51 (1295)				T6	T5	-	T4A	T4A	-	T4A	T4A	-	T6	T5	-	T4	T4	-
LAL3430D	34.5 / 15.6	34	D-57.9 (1471)	120-277VAC	0.28 - 0.12	4517 / 4929	T6	T5	-	T4A	T4A	-	T4A	T4A	-	T6	T5	-	T4	T4	-
LAL34E1330D	44.5 / 20.2		D-57.9 (1471)				T6	T5	-	T4A	T4A	-	T4A	T4A	-	T6	T5	-	T4	T4	-
LAL34E2630D	54.5 / 24.7		D-57.9 (1471)				T6	T5	-	T4A	T4A	-	T4A	T4A	-	T6	T5	-	T4	T4	-
LAL5530D	34.5 / 15.6	55	D-57.9 (1471)	120-277VAC	0.46 - 0.20	6864 / 7490	T6	T5	-	T4A	T4A	-	T4A	T4A	-	T6	T5	-	T4	T4	-
LAL55E1330D	44.5 / 20.2		D-57.9 (1471)				T6	T5	-	T4A	T4A	-	T4A	T4A	-	T6	T5	-	T4	T4	-
LAL55E2630D	54.5 / 24.7		D-57.9 (1471)				T6	T5	-	T4A	T4A	-	T4A	T4A	-	T6	T5	-	T4	T4	-
LAL8030D	34.5 / 15.6	80	D-57.9 (1471)	120-277VAC	0.67 - 0.29	10110 / 11032	T6	T5	-	T4A	T4A	-	T4A	T4A	-	T6	T5	-	T4	T4	-
LAL80E1330D	44.5 / 20.2		D-57.9 (1471)				T6	T5	-	T4A	T4A	-	T4A	T4A	-	T6	T5	-	T4	T4	-
LAL80E2630D	54.5 / 24.7		D-57.9 (1471)				T6	T5	-	T4A	T4A	-	T4A	T4A	-	T6	T5	-	T4	T4	-
LAL12030D	36.5 / 16.6	120	D-57.9 (1471)	120-277VAC	1.00 - 0.43	15090 / 16467	T6	T5	-	T4A	T4A	-	T4A	T4A	-	T6	T5	-	T4	T4	-
LAL120E1330D	46.5 / 21.1		D-57.9 (1471)				T6	T5	-	T4A	T4A	-	T4A	T4A	-	T6	T5	-	T4	T4	-
LAL120E2630D	56.5 / 25.6		D-57.9 (1471)				T6	T5	-	T4A	T4A	-	T4A	T4A	-	T6	T5	-	T4	T4	-
LALC1527D	12.03 / 4.49	15	A-18.73 (476)	12-24VDC	1.3-0.6	1503 / 1640	T5	T4A	-	T4A	T4A	-	T4A	T4A	-	T5	T4	-	T4	T4	-
LALC1530D				120-277VAC	0.15-0.06		T5	T4A	-	T4A	T4A	-	T4A	T4A	-	T5	T4	-	T4	T4	-
LALC1534D				120-250VDC	0.2-0.1		T5	T4A	-	T4A	T4A	-	T4A	T4A	-	T5	T4	-	T4	T4	-
LALC2027D		20	A-18.73 (476)	12-24VDC	1.7-0.8	2337 / 2550	T5	T5	-	T4A	T4A	-	T4A	T4A	-	T5	T5	-	T4	T4	-
LALC2030D				120-277VAC	0.17-0.08		T5	T5	-	T4A	T4A	-	T4A	T4A	-	T5	T5	-	T4	T4	-
LALC2034D				120-250VDC	0.2-0.1		T5	T5	-	T4A	T4A	-	T4A	T4A	-	T5	T5	-	T4	T4	-
LALC2527D		25	A-18.73 (476)	12-24VDC	2.1-1.0	3019 / 3294	T5	T4A	-	T4A	T4A	-	T4A	T4A	-	T5	T4	-	T4	T4	-
LALC2530D				120-277VAC	0.18-0.08		T5	T4A	-	T4A	T4A	-	T4A	T4A	-	T5	T4	-	T4	T4	-
LALC2534D				120-250VDC	0.2-0.1		T5	T4A	-	T4A	T4A	-	T4A	T4A	-	T5	T4	-	T4	T4	-
LALC3030D		30	A-18.73 (476)	120-277VAC	0.26-0.11	2726 / 2974	T5	T4A	-	T4A	T4A	-	T4A	T4A	-	T5	T4	-	T4	T4	-
LALC3530D					0.30-0.13	3261 / 3558	T5	T4A	-	T4A	T4A	-	T4A	T4A	-	T5	T4	-	T4	T4	-
LALC4030D					0.34-0.15	4152 / 4530	T5	T5	-	T4A	T4A	-	T4A	T4A	-	T5	T5	-	T4	T4	-
LALC4530D					0.38-0.17	5136 / 5604	T5	T5	-	T4A	T4A	-	T4A	T4A	-	T5	T5	-	T4	T4	-
LALC5030D					0.42-0.18	6039 / 6590	T5	-	-	T4A	-	-	T4A	-	-	T5	-	-	T4	-	-

- ① See Logic Notes for Options
- ② Shipping weights
- ③ See dimensional detail.
- ④ Standard Power Lumens

- ⑤ Use 75°C Minimum Supply Wire @ 40°C; Use 90°C Wire at 55° or 65°C
- ⑥ 55°C or 65°C where listed
- ⑦ T-Codes for 55°C or 65°C reflect maximum internal or external temperatures. However, E13 or E26 Emergency units are limited to 50°C ambient to protect electronics and batteries.

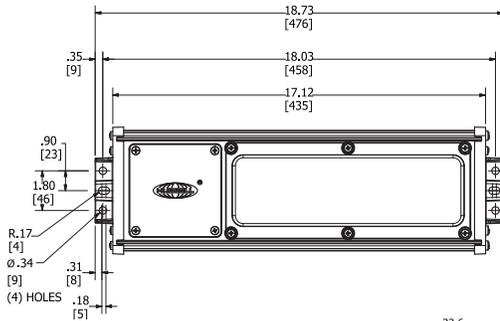
LAL		
LED LUMEN LIFE	L70 CALCULATED	L70 TM-21**
40°C Ambient	212,000 Hours to 70% Initial	60,600 Hours Official Reported
55°C/65°C Ambient ^⑥	99,600 Hours to 70% Initial	60,400 Hours Official Reported

LALC		
LED LUMEN LIFE	L70 CALCULATED	L70 TM-21**
Extra High L/W Models	278,000 Hours to 70% Initial	72,600 Hours Official Reported
High L/W Models	270,000 Hours to 70% Initial	60,100 Hours Official Reported
50W High L/W Models	190,000 Hours to 70% Initial	60,300 Hours Official Reported

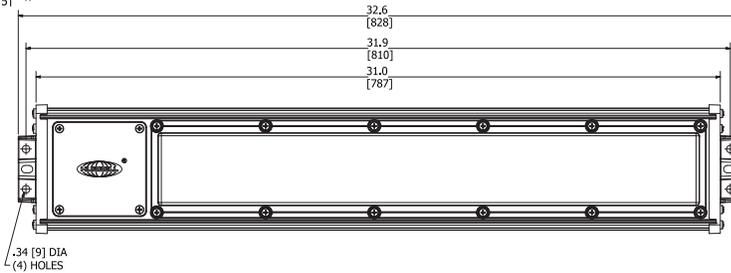
** TM-21 based values require very long duration testing. IES TM-21 "official reported" is based on at least 10,000 hours of LED chip manufacturer's LM-80 Testing at printing.



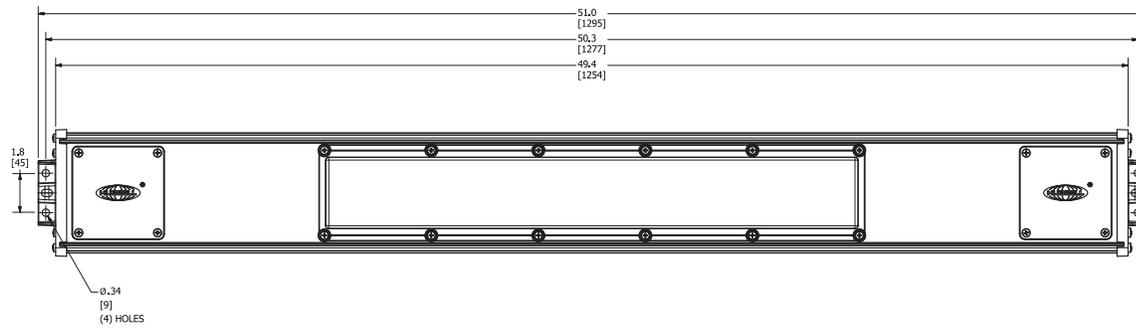
DIMENSIONS AND ACCESSORIES



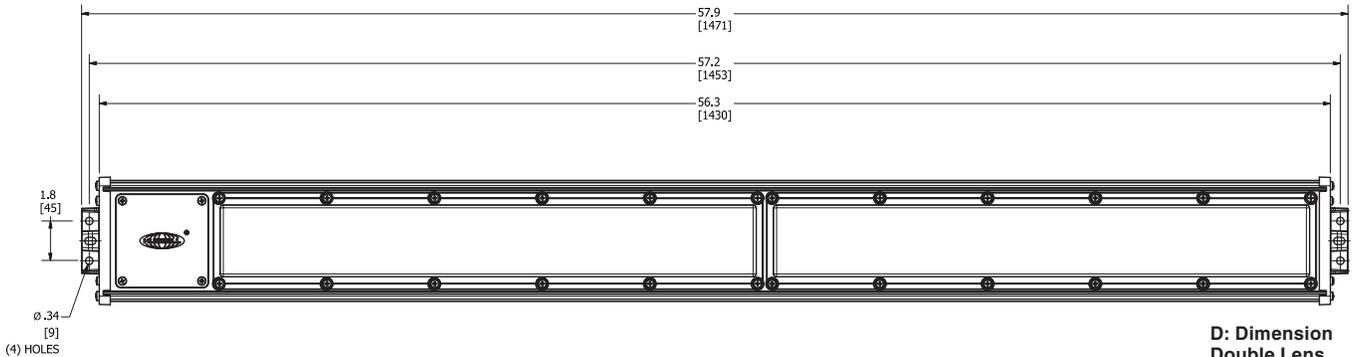
A: Dimensions for LALC



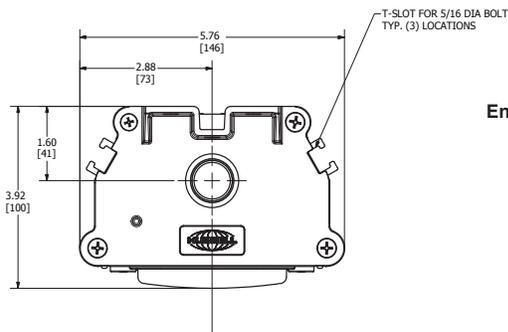
B: Dimension for Single Lens without Emergency Backup (17.9 lbs.)



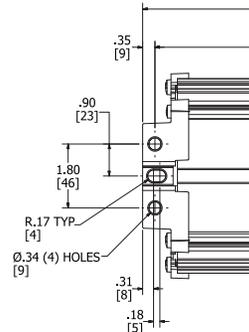
C: Dimension Single Lens with Emergency Battery or Extended Model to Match Emergency Length



D: Dimension Double Lens with or without Emergency Battery



End Views



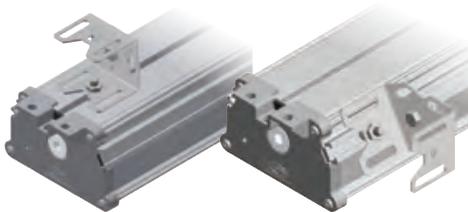
LIGHTING

LAL/LALxE/LALC SERIES



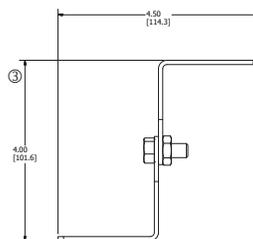
ACCESSORIES AND REPLACEMENT PARTS

ACCESSORIES AND REPLACEMENT PARTS: ① ②	
LAL-SB	Swivel Bracket Set w/ Adjustable Height; includes 5/16" bolts/nuts/lock-washers for attachment to LAL(C) "slots"; can also be attached to end cap mounting feet with FBO bolts.
LZCB	Ceiling Bracket Set with Stainless Steel Bolts to attach to LAL(C) "slots"
LZWB	Wall Bracket Set with Stainless Steel Bolts to attach to LAL(C) "slots"
LAL-BC	Steel/malleable Iron with Zinc electroplate for corrosion resistance; includes Stainless Steel Bolts to attach to LAL(C) "slots"
LAL-EB	Eyebolt Set with Stainless Steel Bolts to attach to LAL(C) "slots"
LAL-SSC	4' Stainless Safety Cable Loop/Loop Spring Safety Carabiner Hook
LALG	Stainless Guard for 1 LAL Lens, order two for 2 lens models
LALCG	LALC Stainless Guard
LAL-LENSCLR	Single Clear Lens with Gasket for LAL Series
LAL-LENSDIF	Single Diffuse Lens with Gasket for LAL Series
LALC-LENSCLR	Single Clear Lens with Gasket for LALC Series
LALC-LENSDIF	Single Diffuse Lens with Gasket for LALC Series
LAL-RIG-CB	Rig Mounting Style Ceiling Bracket
LAL-RIG-WB	Rig Mounting Style Wall Bracket

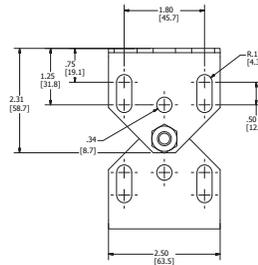


LAL-SB on Center Slot

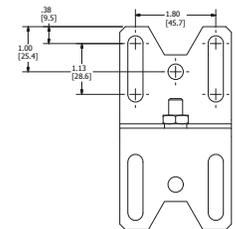
LAL-SB on 45° Slot



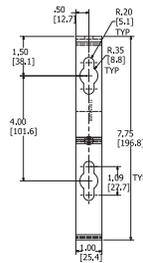
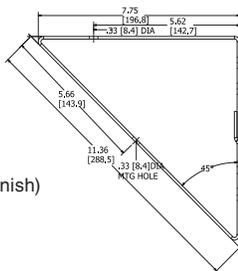
LAL-SB Dimensions – extended shown



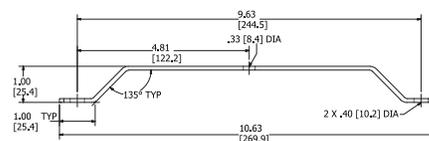
③ Un-extended height 3.25" (82.6)



Wall Bracket Set^②
Part Number LZWB
Stainless Steel (natural finish)

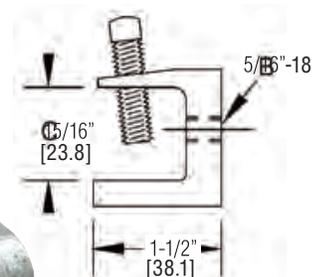


Ceiling Bracket Set^②
Part Number LZCB
Stainless Steel (natural finish)



LAL-SSC Safety Cable

LAL-SSC Attached to 1 of 3 End Cap Attachment Positions



LAL-BC Beam Clamp

① Dimensions in () are millimeters.

② Product accessories have hardware for attachment to fixture; hardware to attach to wall/ceiling F.B.O.



Harsh & Hazardous

KILLARK[®]

LZ Series

LINEAR LED TECHNOLOGY

for Harsh and Hazardous Environments



- 18W to 120W
- 2500 - 16000 Lumens
- 130 to 150 Lumens per Watt
- Ambient Sustainability -40°C to 55°C
- LED Array Life up to 212,000 Maintenance Free Hours
- Crisp White 5000 Kelvin Light (Noon Sunlight)
- Thermal Shock and Impact Resistant Polycarbonate Lens



HSI=GREENSM
HUBBELL SUSTAINABILITY INITIATIVE



LZ2NL/LZ2SL SERIES

KILLARK

LZ LED INTRODUCTION & LOGIC

4' styles shown



Class I, Div. 2, Groups A, B, C, D
Class I, Zone 2, Groups IIC, IIB, IIA
Class II, Div. 1 & 2, Groups E^①, F, G
AEx nAII, Ex nAII
Wet Locations
NEMA 4X, IP66

Certified - File LR11713

ABS Type Approval (L32NL, L32SL)
NSF Food Handling (LZ2NL)

FEATURES-SPECIFICATIONS

LINEAR^{lite}® *

* marca registrada MEXICO

Applications

Linear LED Luminaires are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, and NEMA 3, 4X IP66 areas where wind, water, snow or high ambients can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC/CEC.

ABS (American Bureau of Shipping) type approval for use on decks, vessels, platforms, barges, ships and boats. Also suitable for docks and marinas.

NSF (National Sanitation Foundation) approved for "Food Handling" areas, typically requiring non-glass lighting.

Typical applications include manufacturing plants, and certain chemical and petrochemical processing facilities, sewage treatment plants, off-shore and dockside installations, garages, storage facilities, tunnels, and grain/food facilities.

Compliances

- UL-8750 for LED lighting
- ANSI/UL 1598(A)
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 2; Class II, Divisions 1 and 2; Class III
- CSA C22.2 no. 137-M1981 electric luminaires for use in hazardous locations
- Enclosed and gasketed
- NEMA 3, 4X, IP66

Materials

- NEMA 44X & IP66 rated enclosure
- Housing – one piece fiberglass reinforced polyester or 316 Stainless Steel
- Lens – Clear Lexan® impact resistant polycarbonate lens (Lexan is a registered trademark of SABIC)
- Two 3/4" NTP hubs – one at each end (includes one 3/4" close-up plug and two 3/4"x1/2" reducers for maximum user flexibility – LZ2NL hubs aluminum; LZ2SL hubs 316 Stainless Steel)

LED Features and Standards

- Many Midpower LEDs blend light to simulate fluorescent tube
- Crisp White Light for Excellent Color Rendering – Chromaticity 5000K (CCT); approx. 70 CRI
- Energy Savings – High lumens per watt
- LED Array Life – to 212,000 maintenance free hours to 70% initial lumens
- Ambient suitability -40°C to 55°C up to 120W
- Instant On – Including after power interruption
- World Voltage 120 - 277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant
- LM80-08* Measurement of lumen maintenance for LED light sources
- LM79-08* Certified "Absolute" Photometry, including Chromaticity Color for Solid State Lighting
- L70 Values – Industry Nomenclature for Hours of use to 70% of initial Lumens – TM-21* & Calculated



LED VS FLUORESCENT WATTAGE & DELIVERED LUMENS ^{④ ⑤}					
LED WATT	LUMENS	L/W	FLUORESCENT	LUMENS	L/W
18W	2557	150	40W 1x40W BX	2471	63
28W	3775	144	55W 1x55W BX	3766	65
34W	5075	149	56W 2x28T5	4676	71
45W	5562	137	64W 2x32T8	4772	80
55W	7577	144	108W 2x54T5HO	8088	67
60W	7618	132	120W 2x60T12HO	6965	56
80W	11140	137	162 3x54T5HO	11619	65

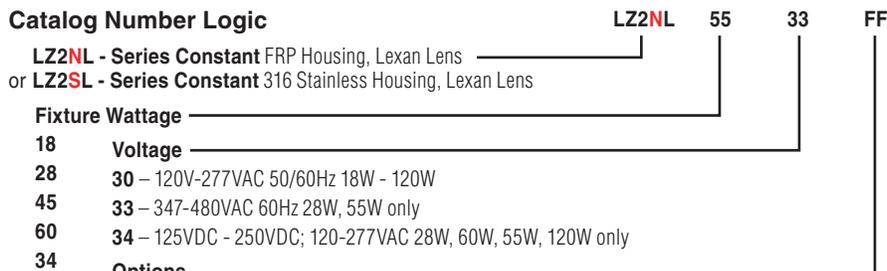
^④ Cataloged Wattage in LZ2x Housing & Lens – actual varies with driver or ballast losses – Delivered Lumens and L/W from photometry testing

^⑤ LZ2xL L70 Life 99,600 - 212,000 LZ2x Fluorescent 10,000 - 60,000

LED array calculated L70 life depending on ambient temperature. L70 values indicate 70% of initial illumination after "x" hours (see next page). Fluorescent typically operates to 20,000 hours (some wattages as few as 10,000 hours; specialty 32W lamps to 60,000 hours)

Supplemental surge protection included as standard for AC models only

Catalog Number Logic



* LM-xx & TM-xx are Illumination Engineering Society Standards designed to promote uniformity in testing procedures among test labs and manufacturers.
 For more information go to www.ies.org

^① Group LZ2SL only for group E

^② Fuses not for Canadian or Marine applications

^③ LZ2xL fixtures with photocells are C1D2 only, not C2D1

LIGHTING

LZ2NL/LZ2SL SERIES



LZ SERIES – ORDERING INFORMATION & TECHNICAL DATA

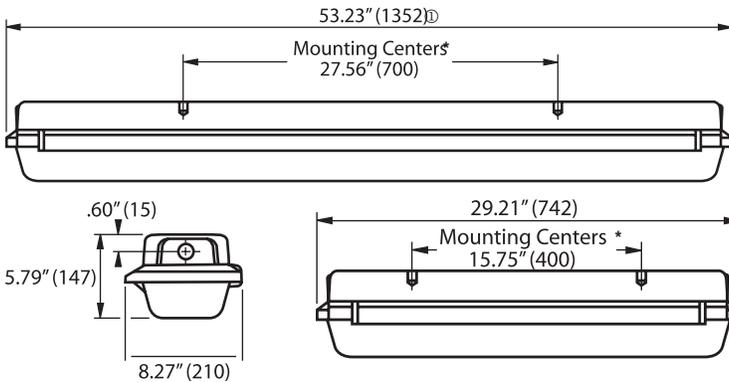
ORDERING INFORMATION AND AMBIENT SUITABILITY										C1D2 ^⑤		C2D1 ^⑤ LZ2NL GRPS. FG LZ2SL GRPS. FG		C1Z2 ^⑤ AEx nA Ex nA	
CATALOG NUMBER ^{①②}				WATTAGE	LENGTH/ PCBS ^③	VOLTAGE	AMPS ^④	DELIVERED LUMENS	LUMENS PER WATT	40C	55C	40C	55C	40C	55C
FIBERGLASS	(WT.)	STAINLESS	(WT.)												
LZ2NL1830	12	LZ2SL1830	13	18	2' / 2	120-277VAC	0.15 - 0.06	2557	150	T5	T4A	≤ 135°C	≤ 135°C	T5	T4
LZ2NL2830	12	LZ2SL2830	13	28	2' / 2	120-277VAC	0.23 - 0.10	3775	144	T5	T4A	≤ 135°C	≤ 135°C	T5	T4
LZ2NL4530	12	LZ2SL4530	13	45	2' / 2	120-277VAC	0.38 - 0.16	5562	137	T5	T4A	≤ 135°C	≤ 135°C	T5	T4
LZ2NL6030	14	LZ2SL6030	15	60	2' / 3	120-277VAC	0.50 - 0.22	7618	132	T4A	-	≤ 135°C	-	T4	-
LZ2NL3430	23	LZ2SL3430	24	34	4' / 4	120-277VAC	0.28 - 0.12	5075	149	T5	T4A	≤ 135°C	≤ 135°C	T5	T4
LZ2NL5530	23	LZ2SL5530	24	55	4' / 4	120-277VAC	0.46 - 0.20	7577	144	T5	T4A	≤ 135°C	≤ 135°C	T5	T4
LZ2NL8030	23	LZ2SL8030	24	80	4' / 4	120-277VAC	0.67 - 0.29	11140	137	T5	T4A	≤ 135°C	≤ 135°C	T5	T4
LZ2NL12030	25	LZ2SL12030	26	120	4' / 6	120-277VAC	1.00 - 0.43	16010	132	T4A	-	≤ 135°C	-	T4	-

- ① See logic for additional voltages and options
- ② Shipping weights approximate
- ③ Length is nominal, see dimensional detail. PCB noted quantity used per fixture wattage
- ④ Amperage measured at 120VAC; 277VAC calculated
- ⑤ Use 60°C Minimum Supply Wire at 40°C Ambient except 120W; 75°C Wire at 55°C Ambient and all 120W

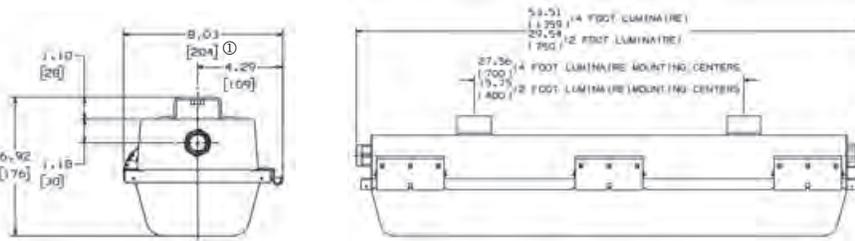
LED LUMEN LIFE	L70 CALCULATED	L70 TM-21**
40°C Ambient	212,000 Hours to 70% Initial	60,600 Hours Official Reported
55°C Ambient	99,600 Hours to 70% Initial	60,400 Hours Official Reported

** TM-21 based values require very long duration testing. IES TM-21 "official reported" is based on at least 10,000 hours of LED chip manufacturer's LM-80 Testing at printing.

Dimensions LZ2NL Series



Dimensions LZ2SL Series



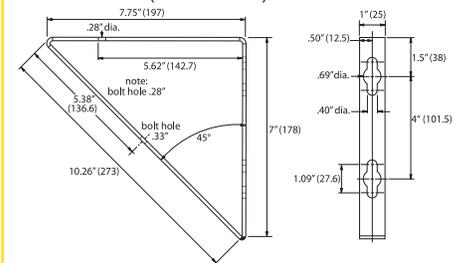
REPLACEMENT PARTS:	
LZ2N4LENS	4' Lens only LZ2NL/LZ2SL
LZ2N2LENS	2' Lens only LZ2NL/LZ2SL
LZ2N4BAR	4' Locking Bar only LZ2NL
LZ2N2BAR	2' Locking Bar only LZ2NL
LZ2S-LATCH	Latch and Spring LZ2SL

*Mounting Centers are 1/4"-20" tapped for user all thread rod or below accessories.

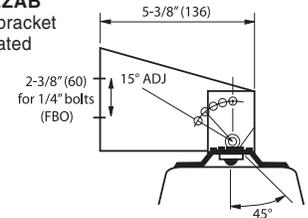
- ① Dimensions in () are millimeters.
- ② Product accessories have hardware for attachment to fixture; hardware to attach to wall/ceiling F.B.O.
- NOTE: Eyebolts are 316 Series, brackets are 300 Series Stainless Steel.

Mounting Accessories For All LZ2NL & LZ2SL Series

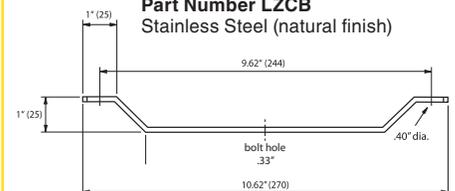
Wall Bracket Set^②
Part Number LZWB
Stainless Steel (natural finish)



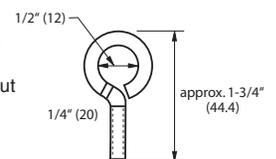
Adjustable Wall Bracket Set^②
Part Number LZAB
Stainless Steel bracket with ceramic coated pivot bolt



Ceiling Bracket Set^②
Part Number LZCB
Stainless Steel (natural finish)



Eyebolt Set
Part Number LZEB
Stainless Steel bolt with lockwasher & nut (natural finish)



Suspension Chains (2 required)
Part Number HFX-SC
36" length plated steel chain with snap link ends
For use with LZEB



COMPACT SIZE – INTRODUCTION & LOGIC



Luminaire w/Glass Refractor and Guard



Luminaire w/Flat Lens



Wall Mount w/VZRF8PR Pathway Reflector

Expanded wattage range RANGE
14W, 17W, 20W, 25W, 40W, 45W, 50W

Class I, Div. 2, Groups A,B,C,D
Class I, Zone 2, Groups IIC, IIB, IIA
Class II, Div. 1 & 2, Groups E,F,G
Class III
Suitable for wet locations
Marine Rated (US only)
NEMA 3, 4X

Certified - File LR11713

CERTILITE® LED

FEATURES-SPECIFICATIONS Applications

CERTILITE® MBL LED fixtures are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water, snow or high ambients can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC.

Typical applications can low ceiling areas in manufacturing plants, and certain chemical and petrochemical processing facilities, sewage treatment plants, off-shore and dockside installations, garages and storage facilities.

Compliances

- UL-8750 for LED lighting; UL 1598A
- UL Marine type lighting fixtures UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 2; Class II, Divisions 1 and 2; Class III
- CSA C22.2 no. 137-M1981 electric luminaries for use in hazardous locations
- Enclosed and gasketed
- NEMA 3, 4X

Materials

- Ballast tank, splice box and guards (MBAG, VMAG) corrosion resistant copper-free aluminum alloy
- Baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- All external hardware - stainless steel
- Reflectors - Polyester reinforced fiberglass

Non-Glass Polycarbonate 8" Flat Lens or Spin-top



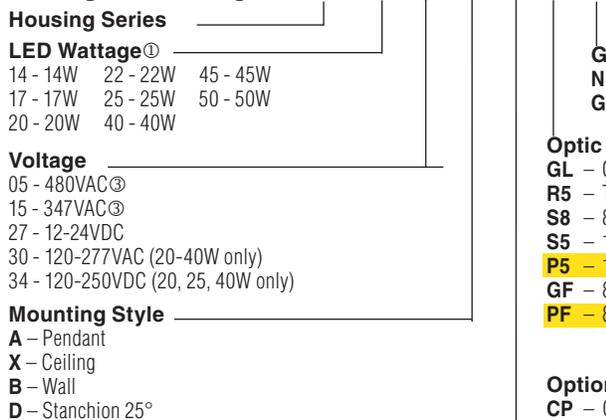
Patented Design

LED Luminaire Features and Standards

- Compact in Size with Traditional Industrial Appearance and Suitability
- Wide variety of optics including globes, globes with reflectors, all-glass refractors, and spin-top refractors
- Optional Mounting arrangements including Pendant, Wall, Ceiling, and Stanchion
- MBL LED Housings can be retrofitted to existing MB splice boxes; upgrade from Fluorescent or HID
- Energy Savings – Less than 50 Watts of Power; 25 Watts for MBL2230
- Long Life up to 100,000+ maintenance free hours to 70% initial lumens
- Crisp White Light for Excellent Color Rendering - Chromaticity 5000°K (CCT); 70 CRI

* LM-xx are Illumination Engineering Society Standards designed to promote uniformity in testing procedures among test labs and manufacturers. For more information go to www.ies.org

Catalog Number Logic



Guard
N – No Guard
G – Guard

Optic

- GL – Globe (MBG)
- R5 – Type 5 Glass Refractor
- S8 – 8" Spin-top Type V Refractor
- S5 – 12" Spin-top V Refractor
- P5 – 12" Poly Spin-top V Refractor**
- GF – 8" Glass Flat Lens②
- PF – 8" Polycarbonate Flat Lens②**

Options

- CP – Component Pack (housing, mount, Optic, Guard if selected)
- AN – Assembled Fixture (components as selected)

- ① 14W - 25W use single driver
- ② 14W - 25W only for 8" flat lens
- ③ Single step-down transformer feeds driver(s)

LIGHTING

MBL SERIES



COMPACT SIZE – ORDERING INFORMATION



PENDANT



CEILING



WALL



STANCHION



ORDERING INFORMATION

MBL SERIES PENDANT WITH OPTIC AND GUARD							
WATTS	HUB SIZE ^②	VOLTAGE ^③	GLOBE & GUARD	8" SPIN-TOP POLYCARBONATE FLAT LENS*	TYPE V GLASS REFRACTOR & GUARD	8" SPIN-TOP TYPE V REFRACTOR & GUARD	12" SPIN-TOP TYPE V REFRACTOR & GUARD
14	3/4"	120-277VAC	MBL1430A2GLG	MBL1430A2PFN	MBL1430A2R5G	MBL1430A2S8G	MBL1430A2S5G
17	3/4"	120-277VAC	MBL1730A2GLG	MBL1730A2PFN	MBL1730A2R5G	MBL1730A2S8G	MBL1730A2S5G
20	3/4"	120-277VAC	MBL2030A2GLG	MBL2030A2PFN	MBL2030A2R5G	MBL2030A2S8G	MBL2030A2S5G
22	3/4"	120-277VAC	MBL2230A2GLG	MBL2230A2PFN	MBL2230A2R5G	MBL2230A2S8G	MBL2230A2S5G
25	3/4"	120-277VAC	MBL2530A2GLG	MBL2530A2PFN	MBL2530A2R5G	MBL2530A2S8G	MBL2530A2S5G
40	3/4"	120-277VAC	MBL4030A2GLG	-	MBL4030A2R5G	MBL4030A2S8G	MBL4030A2S5G
45	3/4"	120-277VAC	MBL4530A2GLG	-	MBL4530A2R5G	MBL4530A2S8G	MBL4530A2S5G
50	3/4"	120-277VAC	MBL5030A2GLG	-	MBL5030A2R5G	MBL5030A2S8G	MBL5030A2S5G
MBL SERIES CEILING WITH OPTIC AND GUARD ①							
14	3/4"	120-277VAC	MBL1430X2GLG	MBL1430X2PFN	MBL1430X2R5G	MBL1430X2S8G	MBL1430X2S5G
17	3/4"	120-277VAC	MBL1730X2GLG	MBL1730X2PFN	MBL1730X2R5G	MBL1730X2S8G	MBL1730X2S5G
20	3/4"	120-277VAC	MBL2030X2GLG	MBL2030X2PFN	MBL2030X2R5G	MBL2030X2S8G	MBL2030X2S5G
22	3/4"	120-277VAC	MBL2230X2GLG	MBL2230X2PFN	MBL2230X2R5G	MBL2230X2S8G	MBL2230X2S5G
25	3/4"	120-277VAC	MBL2530X2GLG	MBL2530X2PFN	MBL2530X2R5G	MBL2530X2S8G	MBL2530X2S5G
40	3/4"	120-277VAC	MBL4030X2GLG	-	MBL4030X2R5G	MBL4030X2S8G	MBL4030X2S5G
45	3/4"	120-277VAC	MBL4530X2GLG	-	MBL4530X2R5G	MBL4530X2S8G	MBL4530X2S5G
50	3/4"	120-277VAC	MBL5030X2GLG	-	MBL5030X2R5G	MBL5030X2S8G	MBL5030X2S5G
MBL SERIES WALL WITH OPTIC AND GUARD ①							
14	3/4"	120-277VAC	MBL1430B2GLG	MBL1430B2PFN	MBL1430B2R5G	MBL1430B2S8G	MBL1430B2S5G
17	3/4"	120-277VAC	MBL1730B2GLG	MBL1730B2PFN	MBL1730B2R5G	MBL1730B2S8G	MBL1730B2S5G
20	3/4"	120-277VAC	MBL2030B2GLG	MBL2030B2PFN	MBL2030B2R5G	MBL2030B2S8G	MBL2030B2S5G
22	3/4"	120-277VAC	MBL2230B2GLG	MBL2230B2PFN	MBL2230B2R5G	MBL2230B2S8G	MBL2230B2S5G
25	3/4"	120-277VAC	MBL2530B2GLG	MBL2530B2PFN	MBL2530B2R5G	MBL2530B2S8G	MBL2530B2S5G
40	3/4"	120-277VAC	MBL4030B2GLG	-	MBL4030B2R5G	MBL4030B2S8G	MBL4030B2S5G
45	3/4"	120-277VAC	MBL4530B2GLG	-	MBL4530B2R5G	MBL4530B2S8G	MBL4530B2S5G
50	3/4"	120-277VAC	MBL5030B2GLG	-	MBL5030B2R5G	MBL5030B2S8G	MBL5030B2S5G
MBL SERIES 250 STANCHION WITH OPTIC AND GUARD ①							
14	1-1/4"④	120-277VAC	MBL1430D4GLG	MBL1430D4PFN	MBL1430D4R5G	MBL1430D4S8G	MBL1430D4S5G
17	1-1/4"④	120-277VAC	MBL1730D4GLG	MBL1730D4PFN	MBL1730D4R5G	MBL1730D4S8G	MBL1730D4S5G
20	1-1/4"④	120-277VAC	MBL2030D4GLG	MBL2030D4PFN	MBL2030D4R5G	MBL2030D4S8G	MBL2030D4S5G
22	1-1/4"④	120-277VAC	MBL2230D4GLG	MBL2230D4PFN	MBL2230D4R5G	MBL2230D4S8G	MBL2230D4S5G
25	1-1/4"④	120-277VAC	MBL2530D4GLG	MBL2530D4PFN	MBL2530D4R5G	MBL2530D4S8G	MBL2530D4S5G
40	1-1/4"④	120-277VAC	MBL4030D4GLG	-	MBL4030D4R5G	MBL4030D4S8G	MBL4030D4S5G
45	1-1/4"④	120-277VAC	MBL4530D4GLG	-	MBL4530D4R5G	MBL4530D4S8G	MBL4530D4S5G
50	1-1/4"④	120-277VAC	MBL5030D4GLG	-	MBL5030D4R5G	MBL5030D4S8G	MBL5030D4S5G

① Catalog numbers shown are with Guard; to omit guard change ending G to N; e.g. MBL2230A2GLN

② Catalog numbers shown are with 3/4" conduit openings; change "2" to "3" for 1" e.g. MBL2230A3GLG

③ 120VAC through 277VAC 50/60Hz

④ Catalog numbers shown are with 1-1/4" conduit openings; change "4" to "5" for 1-1/2" e.g. MBL2230D5GLG

* For Glass 8" Spin-top Flat Lens, change PFN to GFN at end of catalog number



COMPACT SIZE – COMPONENTS



MB MOUNTING BRACKETS				
CATALOG NUMBER				HUB SIZE
PENDANT	CEILING	WALL	STANCHION	
MBA-2	MBX-2	MBB-2	—	3/4"
MBA-3	MBX-3	MBB-3	—	1"
—	MBX-8*	—	—	M20
—	—	—	MBD-4	1-1/4"
—	—	—	MBD-5	1-1/2"

* MBX-8 furnished with 3 non-metallic plugs



**Non-Glass Polycarbonate
8" Flat Lens or Spin-top**



Patented Design

MBL LED OPTICS AND ACCESSORIES		
DESCRIPTION	OPTIC LOGIC	GUARD
Globe (glass)	MBG (GL)	MBAG
Reflector (all glass) Type V	VMR175 (R5)	VMAG17
Reflector (spin top) 8" Type V	VZRG1550 (S8)	VMRWG8
Reflector (spin top) 12" Type V	VZRG2550 (S5)	VMRWGS
8" Spin-top flat lens (glass)Ⓞ	VZRGF8 (GF)	VZRF8GRD
8" Spin-top flat lens (polycarbonate)Ⓞ	VZRPF8 (PF)	VZRF8GRD
Reflector polycarbonate (spin -top) 12" Type V	VZRP175 (P5)	VMRWGS
Pathway ReflectorⓄ	VZRF8PR	NA
Reflector for MBG Globe - DOMEⓄ	VMPSD-17	NA
Reflector for MBG Globe - ANGLEⓄ	VMPA-17	NA
120VAC Photocell with FS Style Cover	VMFSPC1	NA
208-277VAC Photocell with FS Style Cover	VMFSPC2	NA
3-sided EXIT Accessory (use without guard)	VEXA100B	NA

Ⓞ 14-25W only

Ⓞ Reflectors for use with MBG/MBAG only; VMG17 globe with VMAG17 guard will fit without reflector.

LIGHTING

MBL SERIES



COMPACT SIZE – RATINGS, SPECIAL AIMING ANGLES

ORDERING INFORMATION AND AMBIENT SUITABILITY					C1D2 OPTIC ONLY		ABCD W/ REFLECTOR		C2D1 OPTIC ONLY		EFG W/REFLECTOR	
CATALOG NO.	WEIGHT LBS./KG	WATTS	VOLTAGE	AMPS	40°C	55°C	40°C	55°C	40°C	55°C	40°C	55°C
MBL1427	10.00 / 4.54	14	12-24VDC	1.17-0.58	T5	T4A	T4	T3B	T4A	T4A	T4A	T4A
MBL1430		14	120-250VDC	0.12-0.05								
MBL1727		17	12-24VDC	1.42-0.71	T5	T5	T5	T5	T4	T4	T4	T4
MBL1730		17	120-250VDC	0.14-0.06								
MBL2027		20	12-24VDC	1.67-0.83	T5	T5	T5	T5	T4	T4	T4	T4
MBL2030		20	120-250VDC	0.17-0.07								
MBL2227		22	12-24VDC	1.83-0.92	T4A	T4	T4A	T4	T4	T4	T4	T4
MBL2230		22	120-250VDC	0.18-0.08								
MBL2527		25	12-24VDC	2.08-1.04	T5	T5	T5	T5	T4	T4	T4	T4
MBL2530		25	120-250VDC	0.21-0.09								
MBL4027	15.5 / 7.03	40	12-24VDC	3.33-1.67	T5	-	T5	-	T4	-	T4	-
MBL4030		40	120-250VDC	0.33-0.14								
MBL4527		45	12-24VDC	3.75-1.88	T4A	-	T4A	-	T4	-	T4	-
MBL4530		45	120-250VDC	0.38-0.16								
MBL5027		50	12-24VDC	4.17-2.08	T5	-	T5	-	T4	-	T4	-
MBL5030		50	120-250VDC	0.42-0.18								

① Driver THD<20%, Powerfactor 99% @ 120V; Line Regulation 2%; Load regulation 5%; Protected against Over-voltage and Over-current.

② Weights are shown are MBL tank only.

③ TM-21 based values require very long duration testing. The TM-21/L70 "official reported" value is at least 10,000 hours testing (at time of printing) at 1000mA to 1500mA drive current, depending on LED chip utilized - "Reported L70" is a factor of test duration. KILLARK's MBL series utilizes lower 350mA or 700mA maximum drive current - "calculated" values by the major chip vendors utilized predict L70 life up to 278,000+ hours even at 1000mA.

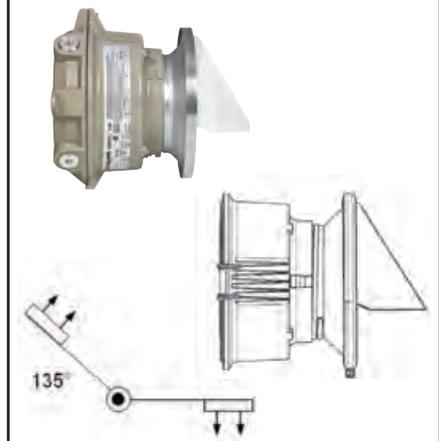
④ Use 75°C minimum supply wire @ 40°C; use 90°C supply wire @ 55°C.

TOTAL LUMEN OUTPUT					
WATTAGE	MBL + MBG	MBL + VMR	MBL + VZRXF8	L70	
				TM-21 ^③	CALCULATED
14	910	800*	980*	60100	270000
17	1650	1485*	2040*	72600	278000
20	1785	1570*	2009*	60100	270000
22	1365	1201*	1427*	60100	270000
25	2485	2236*	3186*	72600	278000
40	3625	3821	-	60100	270000
45	2940	2955	-	60100	270000
50	5824*	6139	-	72600	278000

Extra high lumen per watt LED's

* Values indicated are estimates; LM-79 Absolute Photometry testing is in progress.

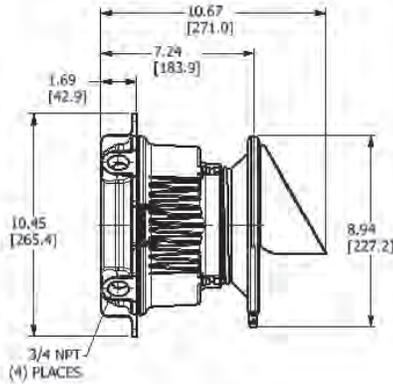
Special Aiming Angles Wall Mount MBL with Pathway Reflector



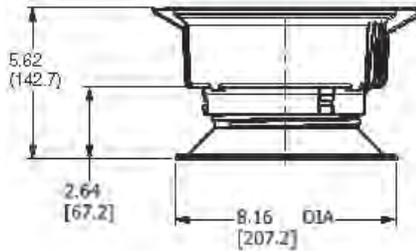
14W-25W MBL Housings with 8" Flat Spin-Top Lens may be aimed from 135° to 0° with or without the VZRF8PF Pathway Reflector. Pathway Reflector must NOT be aimed upwards in a Class II (Dust) environment, or where any contaminant may be collected. Applications include tunnels, lighting dark spots around ceiling piping or pathways near handrails.



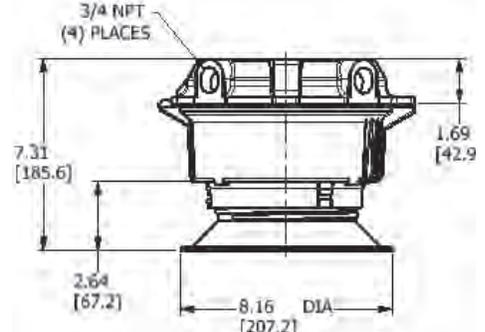
COMPACT SIZE – DIMENSIONS & WEIGHTS



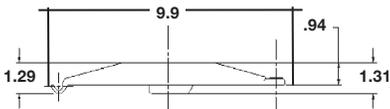
MBL Flat Lens, Pathway Reflector Wall Mount



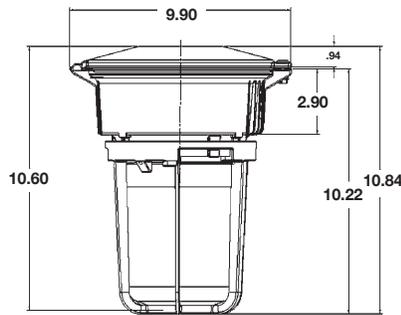
MBL Tank with Flat Lens



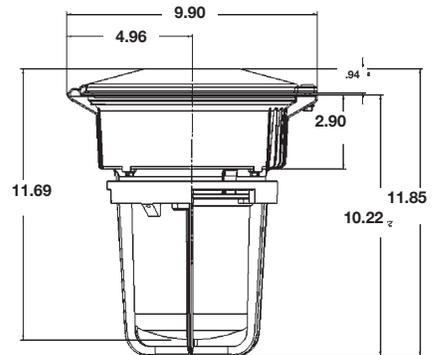
MBL Flat Lens Ceiling Mount



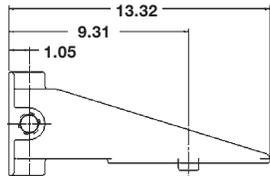
MBA Pendant



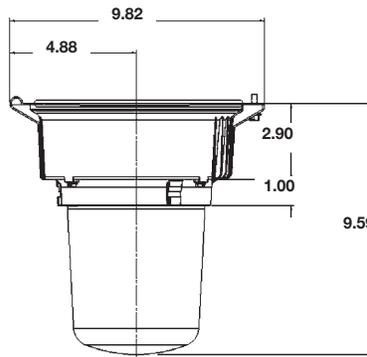
MBL Pendant, Globe, Guard



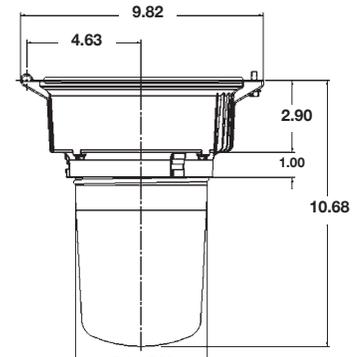
MBL Pendant, Refractor, Guard



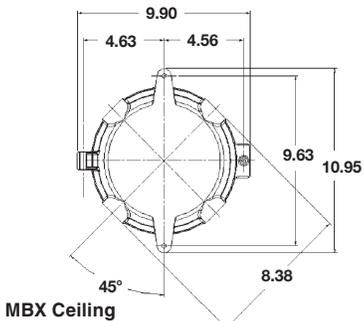
MBB Wall Mount



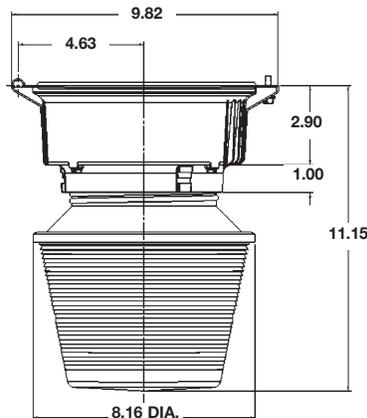
MBL & MBG Globe Only



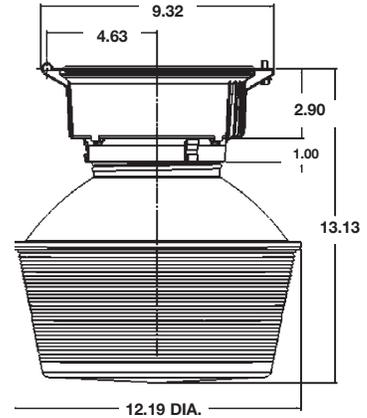
MBL & VMR Refractor



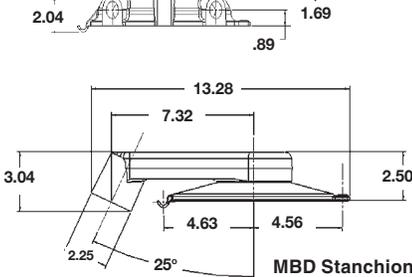
MBX Ceiling



MBL & 8" Type V Spin-top



MBL & 12" Type V Spin-top



MBD Stanchion

TYPICAL WEIGHTS (LBS.) W/STANDARD GLOBE AND GUARD - MBL SERIES			
14-25W	Pendant 14.96	Ceiling 15.96	Wall 19.30
40-50W	Pendant 20.96	Ceiling 21.69	Wall 25.30
			Stanchion 16.83
			Stanchion 22.83

LIGHTING

VM1L SERIES



REDUCED PROFILE – INTRODUCTION



Expanded wattage range
RANGE 40W, 45W, 50W

Class I, Div. 2, Groups A,B,C,D
Class I, Zone 2, Groups IIC,IIB,IIA
Class II, Div. 1 & 2, Groups E,F,G
Class III
Suitable for wet locations
Marine Rated (US only)
NEMA 3, 4X

Certified - File LR11713

CERTILITE[®]V LED

FEATURES-SPECIFICATIONS

Applications

CertiLite[®]V VM1L LED fixtures are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water, snow or high ambients can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC.

Typical applications include manufacturing plants, and certain chemical and petrochemical processing facilities, sewage treatment plants, off-shore and dockside installations, garages and storage facilities.

Compliances

- UL-8750 for LED lighting
- UL Marine type lighting fixtures (HID models) UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 2; Class II, Divisions 1 and 2; Class III
- CSA C22.2 no. 137-M1981 electric luminaires for use in hazardous locations
- Enclosed and gasketed
- NEMA 3, 4X

Materials

- Ballast tank, splice box and cast guards corrosion resistant copper-free aluminum alloy
- Baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- All external hardware - stainless steel
- Reflectors - Polyester reinforced fiberglass

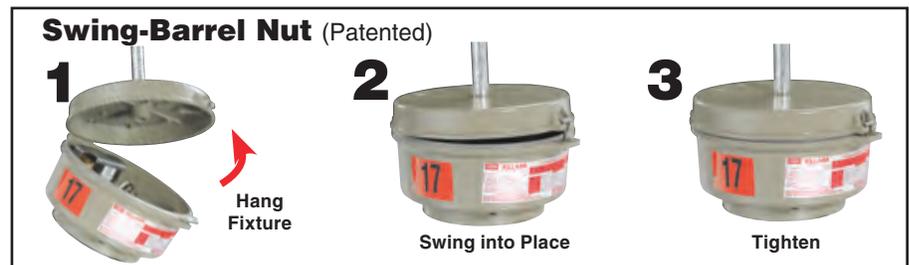
LED Luminaire Features and Standards

- Reduced profile with Traditional Industrial Appearance and Suitability

- Wide variety of optics including globes, globes with reflectors, all-glass refractors, and spin-top refractors
- Swing-Barrel Nut patented tank mounting system
- Optional Mounting arrangements including Pendant, Wall, Ceiling, Stanchion and others
- VM1L LED Housings can be retrofitted to existing VM splice boxes; upgrade from HID sources
- Energy Savings - less than 55 Watts of Power
- Long Life - 50,000 - 55,000 maintenance free hours to 70% initial lumens
- Crisp White Light for Excellent Color Rendering - Chromaticity 5000°K (CCT); 70 CRI

- Ambient suitability -40°C to 55°C
- Instant on - including after power interruption
- "World Voltage" 120-277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant
- Dual Drivers - Redundant Systems (built-in backup), or for additional energy savings half of VM1L4530 can be turned off
- LM80-08* Measurement of lumen maintenance for LED light sources
- LM79-08* Certified "Absolute" Photometry, including Chromaticity Color for Solid State Lighting
- L70 Values - Industry Nomenclature for Hours of use to 70% of Initial Lumens

* LM-xx are Illumination Engineering Society Standards designed to promote uniformity in testing procedures among test labs and manufacturers. For more information go to www.ies.org



NEW!
NON-GLASS
FOOD SUITABILITY
Polycarbonate 12"
Spin-top
Refractor VZRG2550



Photo controls - Class I Div. 2 / N4X areas
Available as Field or Factory Installed to save energy when light not required.



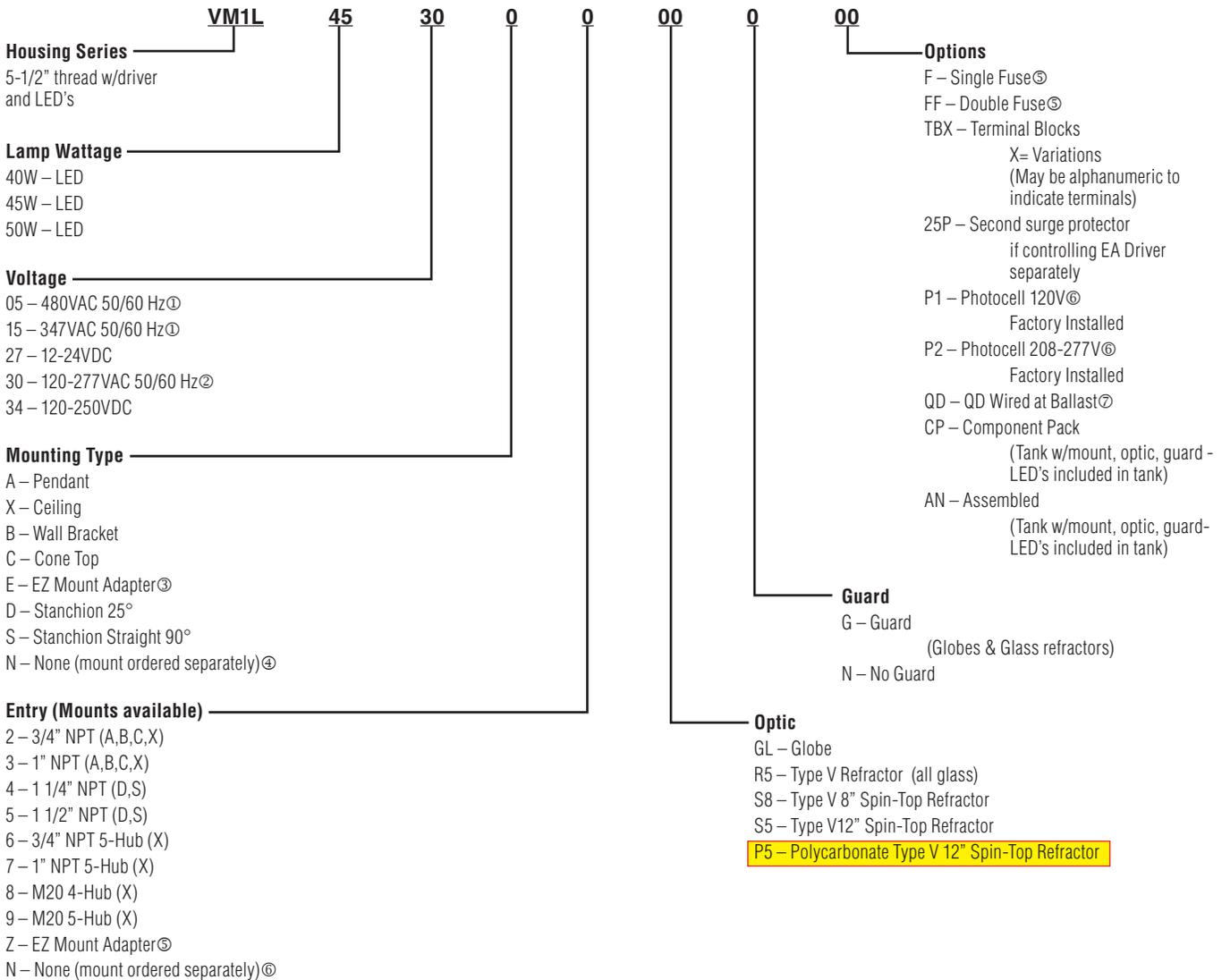
Earthquake Tab -
Built-in attachment point for safety cables.
Safety: Secures fixture to structure in case of conduit failure.



REDUCED PROFILE – CATALOG LOGIC



CertiLite®V LED Catalog Number Logic



[Ⓢ] Single step-down transformer feeds 2 drivers.
[Ⓢ] Dual drivers 40W, 45W, & 50W.
[Ⓢ] Completes as "EZ", conduit mounting boxes ordered separately. - See page L31
[Ⓢ] NN mount ordered separately.
[Ⓢ] Fusing not for Marine or Canadian installations.
[Ⓢ] Photo cells for Class I, Div. 2 only.
[Ⓢ] QD = Quick Disconnect. Allows easy tank removal for maintenance. Electrician simply unplugs tank from mount for fixture relocation or repair due to impact damage.

LIGHTING

VM1L SERIES



REDUCED PROFILE – ORDERING INFORMATION



ORDERING INFORMATION

VM1L SERIES PENDANT WITH OPTIC AND GUARD ①						
WATTS	HUB SIZE②	VOLTAGE③	GLOBE & GUARD	TYPE V GLASS REFRACTOR & GUARD	8" SPIN-TOP TYPE V REFRACTOR & GUARD	12" SPIN-TOP TYPE V REFRACTOR & GUARD
40	3/4"	120-277VAC	VM1L4030A2GLG	VM1L4030A2R5G	VM1L4030A2S8G	VM1L4030A2S5G
45	3/4"	120-277VAC	VM1L4530A2GLG	VM1L4530A2R5G	VM1L4530A2S8G	VM1L4530A2S5G
50	3/4"	120-277VAC	VM1L5030A2GLG	VM1L5030A2R5G	VM1L5030A2S8G	VM1L5030A2S5G

VM1L SERIES CEILING WITH OPTIC AND GUARD ①						
WATTS	HUB SIZE②	VOLTAGE③	GLOBE & GUARD	TYPE V GLASS REFRACTOR & GUARD	8" SPIN-TOP TYPE V REFRACTOR & GUARD	12" SPIN-TOP TYPE V REFRACTOR & GUARD
40	3/4"	120-277VAC	VM1L4030X2GLG	VM1L4030X2R5G	VM1L4030X2S8G	VM1L4030X2S5G
45	3/4"	120-277VAC	VM1L4530X2GLG	VM1L4530X2R5G	VM1L4530X2S8G	VM1L4530X2S5G
50	3/4"	120-277VAC	VM1L5030X2GLG	VM1L5030X2R5G	VM1L5030X2S8G	VM1L5030X2S5G

VM1L SERIES WALL WITH OPTIC AND GUARD ①						
WATTS	HUB SIZE②	VOLTAGE③	GLOBE & GUARD	TYPE V GLASS REFRACTOR & GUARD	8" SPIN-TOP TYPE V REFRACTOR & GUARD	12" SPIN-TOP TYPE V REFRACTOR & GUARD
40	3/4"	120-277VAC	VM1L4030B2GLG	VM1L4030B2R5G	VM1L4030B2S8G	VM1L4030B2S5G
45	3/4"	120-277VAC	VM1L4530B2GLG	VM1L4530B2R5G	VM1L4530B2S8G	VM1L4530B2S5G
50	3/4"	120-277VAC	VM1L5030B2GLG	VM1L5030B2R5G	VM1L5030B2S8G	VM1L5030B2S5G

VM1L SERIES CONE WITH OPTIC AND GUARD ①						
WATTS	HUB SIZE②	VOLTAGE③	GLOBE & GUARD	TYPE V GLASS REFRACTOR & GUARD	8" SPIN-TOP TYPE V REFRACTOR & GUARD	12" SPIN-TOP TYPE V REFRACTOR & GUARD
40	3/4"	120-277VAC	VM1L4030C2GLG	VM1L4030C2R5G	VM1L4030C2S8G	VM1L4030C2S5G
45	3/4"	120-277VAC	VM1L4530C2GLG	VM1L4530C2R5G	VM1L4530C2S8G	VM1L4530C2S5G
50	3/4"	120-277VAC	VM1L5030C2GLG	VM1L5030C2R5G	VM1L5030C2S8G	VM1L5030C2S5G

① Catalog numbers shown are with Guard; to omit guard change ending G to N; e.g. VM1L4530A2GLN

② Catalog numbers shown are with 3/4" conduit openings; change "2" to "3" for "1" e.g. VM1L4530A3GLG

③ 120VAC through 277VAC 50/60Hz



VM1L SERIES

KILLARK

REDUCED PROFILE – ORDERING INFORMATION



STANCHION 25°



STANCHION STRAIGHT



EZ ADAPTER

ORDERING INFORMATION

VM1L SERIES 250 STANCHION WITH OPTIC AND GUARD ①						
WATTS	HUB SIZE②	VOLTAGE③	GLOBE & GUARD	TYPE V GLASS REFRACTOR & GUARD	8" SPIN-TOP TYPE V REFRACTOR & GUARD	12" SPIN-TOP TYPE V REFRACTOR & GUARD
40	1-1/2"	120-277VAC	VM1L4030D5GLG	VM1L4030D5R5G	VM1L4030D5S8G	VM1L4030D5S5G
45	1-1/2"	120-277VAC	VM1L4530D5GLG	VM1L4530D5R5G	VM1L4530D5S8G	VM1L4530D5S5G
50	1-1/2"	120-277VAC	VM1L5030D5GLG	VM1L5030D5R5G	VM1L5030D5S8G	VM1L5030D5S5G

VM1L SERIES STRAIGHT STANCHION WITH OPTIC AND GUARD ①						
WATTS	HUB SIZE②	VOLTAGE③	GLOBE & GUARD	TYPE V GLASS REFRACTOR & GUARD	8" SPIN-TOP TYPE V REFRACTOR & GUARD	12" SPIN-TOP TYPE V REFRACTOR & GUARD
40	1-1/2"	120-277VAC	VM1L4030S5GLG	VM1L4030S5R5G	VM1L4030S5S8G	VM1L4030S5S5G
45	1-1/2"	120-277VAC	VM1L4530S5GLG	VM1L4530S5R5G	VM1L4530S5S8G	VM1L4530S5S5G
50	1-1/2"	120-277VAC	VM1L5030S5GLG	VM1L5030S5R5G	VM1L5030S5S8G	VM1L5030S5S5G

VM1L SERIES EZ ADAPTER WITH OPTIC AND GUARD ①						
WATTS	HUB SIZE②	VOLTAGE③	GLOBE & GUARD	TYPE V GLASS REFRACTOR & GUARD	8" SPIN-TOP TYPE V REFRACTOR & GUARD	12" SPIN-TOP TYPE V REFRACTOR & GUARD
40	NA	120-277VAC	VM1L4030EZGLG	VM1L4030EZR5G	VM1L4030EZR5G	VM1L4030EZR5G
45	NA	120-277VAC	VM1L4530EZGLG	VM1L4530EZR5G	VM1L4530EZR5G	VM1L4530EZR5G
50	NA	120-277VAC	VM1L5030EZGLG	VM1L5030EZR5G	VM1L5030EZR5G	VM1L5030EZR5G

① Catalog numbers shown are with Guard; to omit guard change ending G to N; e.g. VM1L4530D5GLN

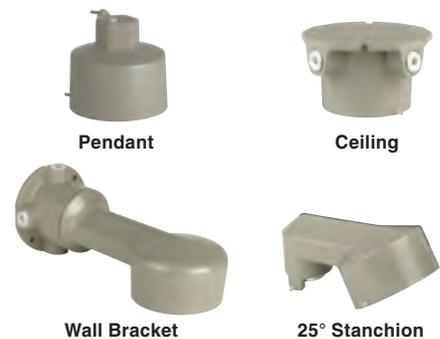
② Catalog numbers shown are with 1-1/2" conduit openings; change "5" to "4" for 1-1/4" e.g. VM1L4530D4GLG

③ 120VAC through 277VAC 50/60Hz

④ VMEZA tank adapters UL "classified" as an assembly for use between VM tanks and EZ mounts.
Order EZ mounts separately (see below).

MOUNTING BOXES FOR EZ ADAPTER				
CATALOG NUMBER				HUB SIZE
PENDANT	CEILING	BRACKET	STANCHION	
EZA2	EZX2	EZB2	—	3/4"
EZA3	EZX3	EZB3	—	1"
—	—	—	EZD4A*	1-1/4"/1-1/2"*

*1-1/2" furnished with 1-1/2"-1-1/4" reducer and extension.



LIGHTING

VM1L SERIES



REDUCED PROFILE – COMPONENTS



CERTILITE®V VM MOUNTING SPLICE BOXES							
HUB SIZE	CATALOG NUMBER						
	PENDANT	CEILING 4 HUB	CEILING 5 HUB	WALL	CONE TOP	25 DEGREE STANCHION	90 DEGREE STANCHION
3/4"	VMA2B	VMX2B	VMX6B	VMB2B	VMC2B	—	—
1"	VMA3B	VMX3B	VMX7B	VMB3B	VMC3B	—	—
1-1/4"	—	—	—	—	—	VMD4B	VMS4B
1-1/2"	—	—	—	—	—	VMD5B	VMS5B
M-20	—	VMX8B**	VMX9B**	VMB8B**	—	—	—

* VMEZA is used between a ballast tank and an EZ mount-ordered separately. See page 18 for more information.

** Furnished with non-metallic plugs. Also available: VMB10B wall 4xM25 hubs, and VMB810B 2xM20 side hubs and 2xM25 top/bottom

VM1L LED OPTICS AND ACCESSORIES		
DESCRIPTION	OPTIC LOGIC	GUARD
Globe (glass)	VMG17 (GL)	VMAG17
Refractor (all glass) Type V	VMR175 (R5)	VMAG17
Refractor (spin top) 8" Type V	VZRG1550 (S8)	VMRWG8
Refractor (spin top) 12" Type V	VZRG2550 (S5)	VMRWGS
Refractor polycarbonate (spin-top) 12" Type V	VZRP175 (P5)	VMRWGS
DOME REFLECTOR (Polyester reinforced fiberglass)	VMPSD40	NA
ANGLE REFLECTOR (Polyester reinforced fiberglass)	VMPA40	NA
120VAC Photocell with FS Style Cover	VMFSPC1	NA
208-277VAC Photocell with FS Style Cover	VMFSPC2	NA
3-sided EXIT Accessory (use without guard)	VEXA100B	NA
Tank adapter to Crouse-Hinds® VM Series mounts*	VMCHVM	NA



ORDERING INFORMATION AND AMBIENT SUITABILITY						C1D2		C2D1		L70		
CATALOG NO.	WEIGHT LBS./KG	WATTS	VOLTAGE	AMPS	VMG15 LUMENS	VMR175 LUMENS	40°C	55°C	40°C	55°C	TM-21	CALCULATED
VM1L4005	15.50 / 7.03	40	480 VAC	0.09	3812	4019	T6	T5	T4 (EFG)	60100	270000	
VM1L4015			347 VAC	0.13								
VM1L4027			12-24VDC	3.33-1.67								
VM1L4030			120-277VAC	0.36-0.16								
VM1L4505		48	480 VAC	0.10	2858.00	2955	T4A	T4	T4 (EFG)	60100	270000	
VM1L4515			347 VAC	0.14								
VM1L4527			12-24VDC	4.00-2.00								
VM1L4530			120-277VAC	0.42-0.18								
VM1L4534		120-250VDC	0.40-0.19									
VM1L5005		50	480 VAC	0.10	6162.00	6427	T5	T4A	T4 (EFG)	72600	278000	
VM1L5015			347 VAC	0.14								
VM1L5027			12-24VDC	4.17-2.08								
VM1L5030	120-277VAC		0.43-0.18									

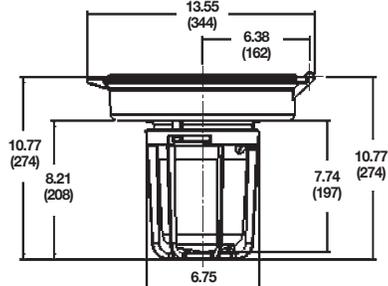
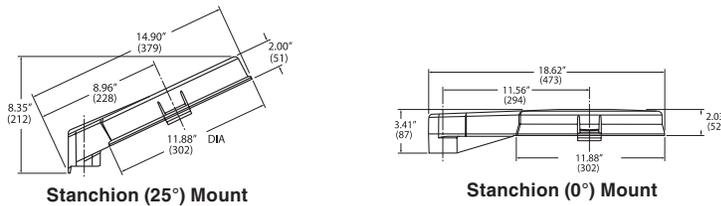
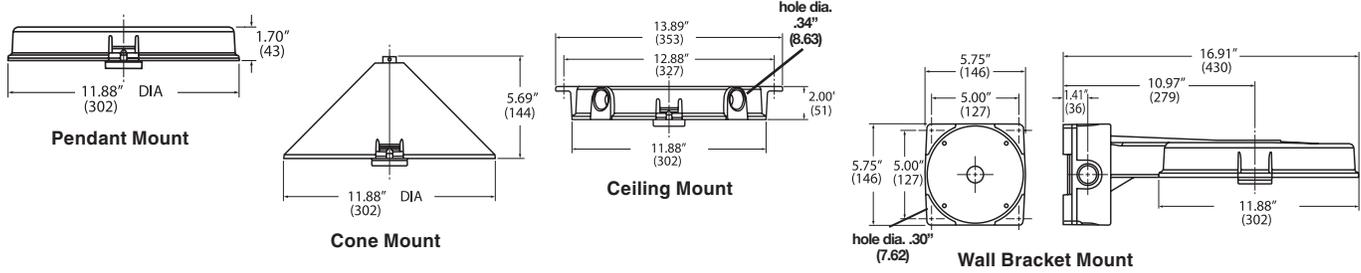
① Driver THD < 20%, Powerfactor 99% @ 120V; Line Regulation 2%; Load regulation 5%; Protected against Over-voltage and Over-current.

② VMRWG8 Plated Steel, VMRWGS 316 Stainless Steel.

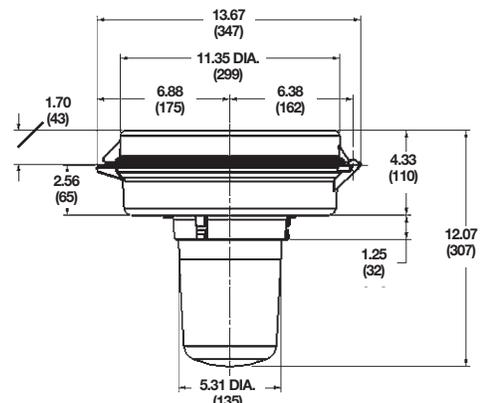
③ TM-21 based values require very long duration testing. The TM-21/L70 "official reported" value is based on at least 10,000 hours testing (at time of printing) at 1000mA to 1500mA drive current, depending on LED chip utilized. "reported L70" is a factor of test duration. KILLARK's MBL series utilizes lower 350mA or 700mA maximum drive current - "calculated" values by the major chip vendors utilized predict L70 life up to 278,000+ hours even at 1000mA.



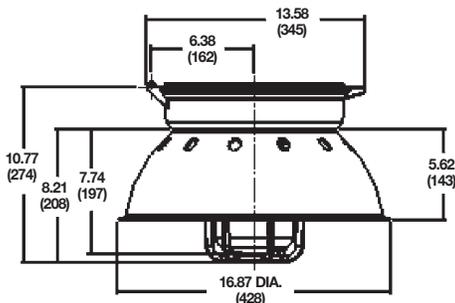
REDUCED PROFILE – DIMENSIONS & WEIGHTS



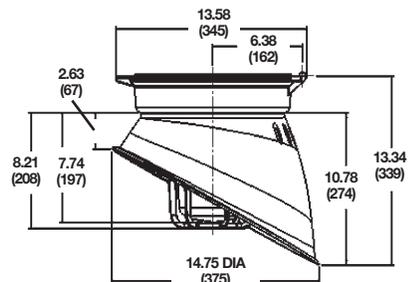
VM1L Tank Globe & Guard



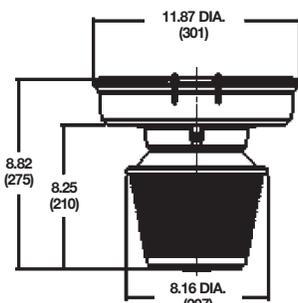
VM1L Tank w/Pendant Mount & Globe



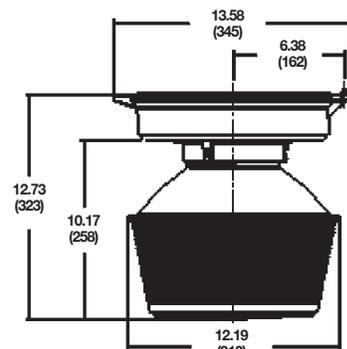
VM1L Tank with Dome Refractor



VM1L Tank with Angle Refractor



VM1L Tank with 8" Spin-top Refractor



VM1L Tank with 12" Spin-top Refractor

TYPICAL WEIGHTS (LBS.) W/ STANDARD GLOBE AND GUARD - VM1L SERIES

Pendant 23.00	Ceiling 24.10	Wall 27.50	Stanchion 23.90
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LIGHTING

VM2&4LB, VM2&4LC SERIES



HIGH WATTAGE – INTRODUCTION

Expanded wattage range and shallower depth VM2LB models



VM2LB with Globe/Guard



VM4LB with Globe/Guard



VM4LC with Flat Lens

Class I, Div. 2, Groups A,B,C,D
 Class I, Zone 2, Groups IIC, IIB, IIA
 Class II, Div. 1 & 2, Groups E,F,G
 Class III
 Suitable for wet locations
 NEMA 3, 4X
 IP66
 Marine Rated (US only)

Certified - File LR11713

IECEx Rated Models (VM4L with IEx suffix)
 Ex nA IIC T4, Gc / Ex tb IIIC T83°C Db
 Temp -40°C ≤Ta ≤+65°C, IP66
 IECEx Certificate QPS 15.0006
 ATEX Pending

Contact Factory for other certification details



FEATURES-SPECIFICATIONS

Applications

CERTALITE® V VM4L LED fixtures are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water, snow or high ambients can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC/CEC.

Typical applications include manufacturing plants, food processing, certain chemical and petrochemical processing facilities, sewage treatment plants, off-shore and dockside installations, garages and storage facilities.

Compliances

- UL-8750 for LED lighting
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 2; Class II, Divisions 1 and 2; Class III
- CSA G22.2 no. 137-M1981 electric luminaires for use in hazardous locations
- Enclosed and gasketed
- NEMA 3, 4X
- IP66 & Marine

Materials

- Ballast tank, splice box and cast guards corrosion resistant copper-free aluminum alloy
- Baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- All external hardware – stainless steel
- Reflectors – Polyester reinforced fiber glass or aluminum

LED Luminaire Features and Standards

- Traditional Industrial Appearance, Suitability, and Photometric Performance
- Wide variety of optics including globes, globes with reflectors, all-glass refractors, spin-top refractors and flat lens
- Swing-Barrel Nut patented tank mounting system
- Optional Mounting arrangements including Pendant, Wall, Ceiling, Stanchion and others
- VM4L LED Housings can be retrofitted to existing VM splice boxes; upgrade from HID sources
- VM2Lx housing is 1.56" shallower for low ceilings
- Crisp White Light for Excellent Color Rendering – Chromaticity 5000 K (CCT range); approx. 70 CRI
- Energy Savings – less than 130 Watts of Power

- Long Life – 50,000 - 55,000 maintenance free hours to 70% initial lumens
- Ambient suitability -40°C to 55°C
- Instant On – Including after power interruption
- World Voltage 120 – 277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant
- Ability for Dual Drivers – Redundant Systems (built-in backup), or for additional energy savings half of fixture can be turned off
- LM80-08* Measurement of lumen maintenance for LED light sources (including TM-21)
- LM79-08* Certified "Absolute" Photometry, including Chromaticity Color for Solid State Lighting
- L70 Values – Industry Nomenclature for Hours of use to 70% of Initial Lumens
- Two LED internal heat sink styles
 - » Bulb VM2LB/VM4LB
 - » Concave VM2LC/VM4LC

* LM-xx + TM-21 are Illumination Engineering Society standards designed to promote uniformity in testing procedures among test labs and manufacturers. For more information go to www.ies.org

Swing-Barrel Nut (Patented)



LED INTERNAL Heat Sinks

Bulb style (VM4LB)
 Maximum lumens but has more glare at line-of-sight.
 Concave style (VM4LC)
 for a compact profile.
 Recessed concave LED array produces less glare.



Consult website for current list of approved luminaires



Non-Glass Polycarbonate 12" Flat Lens



Patented Design



HIGH WATTAGE – CATALOG LOGIC

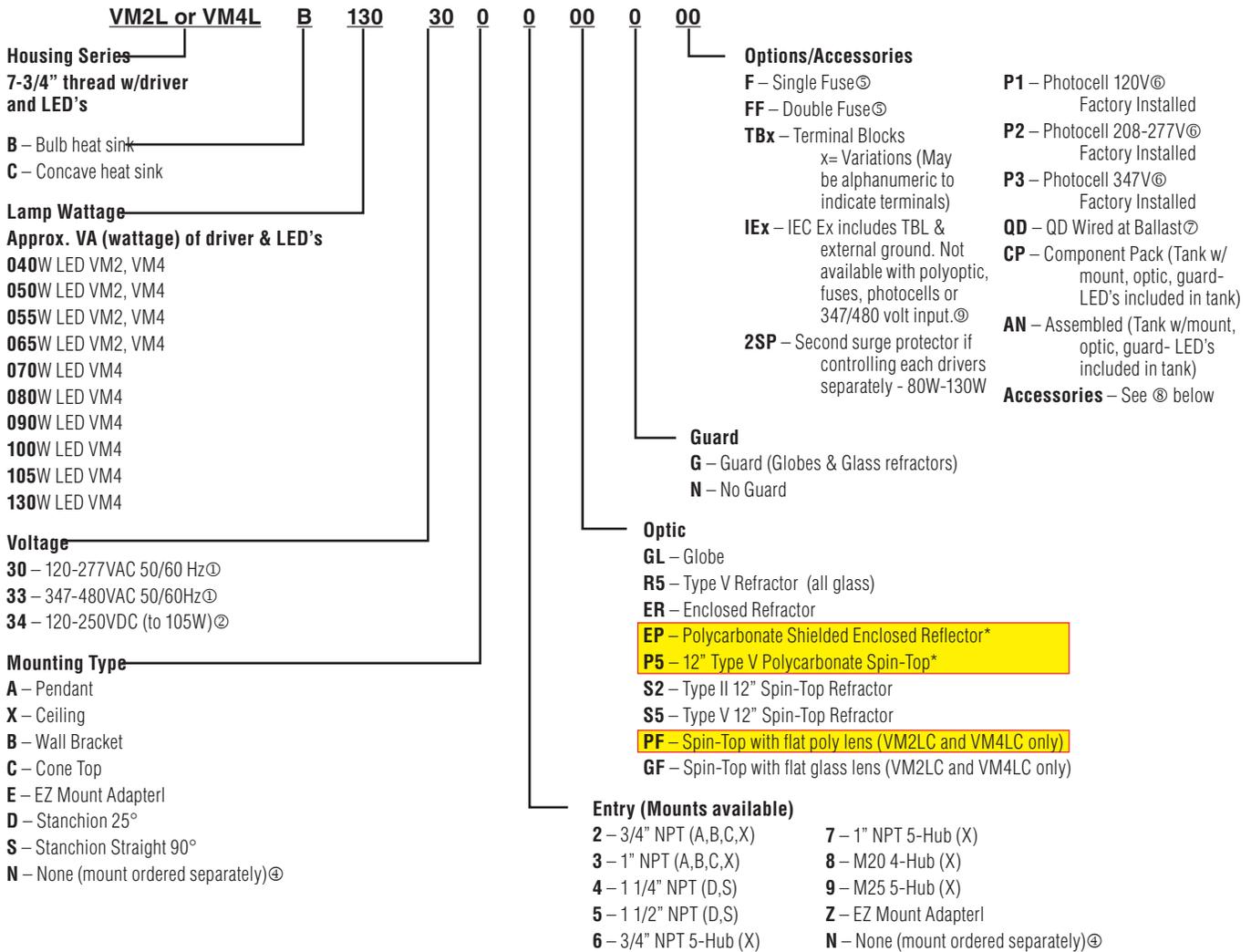
CERTILITE®V

The Logical Choice

Killark high efficiency LED Luminaries require NO external heat sink which adds weight and collects dust and other contaminants



CertiLite®V LED Catalog Number Logic



Ⓢ 40W, 50W, 55W, 65W, 70W single driver; 80W -130W dual drivers
 Ⓢ 80W-105W only (also 120-277VAC 50/60HZ)
 Ⓢ Completes as "EZ", conduit mounting boxes ordered separately - See catalog grids.
 Ⓢ Completes as NN-Mount ordered separately.
 Ⓢ Fusing not for Marine or Canadian installations.
 Ⓢ Photo cells for Class I, Div. 2 only.
 Ⓢ QD = Quick Disconnect. Allows easy tank removal for maintenance. Electrician simply unplugs tank from mount for fixture relocation or repair due to impact damage.

Ⓢ Accessories - Shown for ordering convenience (shipped separately)

S	VMPSD40	Fiberglass White Reflector
A	VMPA40	Fiberglass ANGLE White Reflector
D	HRD400	Deep White Reflector
Z	HRD400ALZ	Deep Alzak Reflector

Ⓢ IEx option only available with VM4L and requires glass optics

*Non-glass Group G Food Processing Suitability

LIGHTING

VM2&4LB, VM2&4LC SERIES



HIGH WATTAGE – ORDERING INFORMATION



Globe & Guard or Glass Refractor & Guard



Spin-Top Poly or Glass Flat Lens VM4LC only



Spin-Top Poly or Glass Refractor



Enclosed Reflector



Poly Food Optic

VM4LB SERIES PENDANT WITH OPTIC AND GUARD ①								
WATTS	HUB SIZE ②	VOLTAGE ③	GLOBE & GUARD	TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V POLYCARBONATE REFRACTOR & GUARD	ENCLOSED REFLECTOR	POLYCARBONATE FOOD OPTIC
40 ④	3/4"	120-277VAC	VM4LB04030A2GLG	VM4LB04030A2R5G	VM4LB04030A2S5G	VM4LB04030A2P5G	VM4LB04030A2ERN	VM4LB04030A2EPN
50 ④	3/4"	120-277VAC	VM4LB05030A2GLG	VM4LB05030A2R5G	VM4LB05030A2S5G	VM4LB05030A2P5G	VM4LB05030A2ERN	VM4LB05030A2EPN
55 ④	3/4"	120-277VAC	VM4LB05530A2GLG	VM4LB05530A2R5G	VM4LB05530A2S5G	VM4LB05530A2P5G	VM4LB05530A2ERN	VM4LB05530A2EPN
65 ④	3/4"	120-277VAC	VM4LB06530A2GLG	VM4LB06530A2R5G	VM4LB06530A2S5G	VM4LB06530A2P5G	VM4LB06530A2ERN	VM4LB06530A2EPN
70	3/4"	120-277VAC	VM4LB07030A2GLG	VM4LB07030A2R5G	VM4LB07030A2S5G	VM4LB07030A2P5G	VM4LB07030A2ERN	VM4LB07030A2EPN
80	3/4"	120-277VAC	VM4LB08030A2GLG	VM4LB08030A2R5G	VM4LB08030A2S5G	VM4LB08030A2P5G	VM4LB08030A2ERN	VM4LB08030A2EPN
90	3/4"	120-277VAC	VM4LB09030A2GLG	VM4LB09030A2R5G	VM4LB09030A2S5G	VM4LB09030A2P5G	VM4LB09030A2ERN	VM4LB09030A2EPN
100	3/4"	120-277VAC	VM4LB10030A2GLG	VM4LB10030A2R5G	VM4LB10030A2S5G	VM4LB10030A2P5G	VM4LB10030A2ERN	VM4LB10030A2EPN
105	3/4"	120-277VAC	VM4LB10530A2GLG	VM4LB10530A2R5G	VM4LB10530A2S5G	VM4LB10530A2P5G	VM4LB10530A2ERN	VM4LB10530A2EPN
130	3/4"	120-277VAC	VM4LB13030A2GLG	VM4LB13030A2R5G	VM4LB13030A2S5G	VM4LB13030A2P5G	VM4LB13030A2ERN	VM4LB13030A2EPN

VM4LC SERIES PENDANT WITH OPTIC AND GUARD ①								
WATTS	HUB SIZE ②	VOLTAGE ③	GLOBE & GUARD	12" SPIN-TOP POLYCARBONATE FLAT LENS* ④	TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V POLYCARBONATE REFRACTOR & GUARD	POLYCARBONATE FOOD OPTIC
40 ④	3/4"	120-277VAC	VM4LC04030A2GLG	VM4LC04030A2PFN	VM4LC04030A2R5G	VM4LC04030A2S5G	VM4LC04030A2P5G	VM4LC04030A2EPN
50 ④	3/4"	120-277VAC	VM4LC05030A2GLG	VM4LC05030A2PFN	VM4LC05030A2R5G	VM4LC05030A2S5G	VM4LC05030A2P5G	VM4LC05030A2EPN
55 ④	3/4"	120-277VAC	VM4LC05530A2GLG	VM4LC05530A2PFN	VM4LC05530A2R5G	VM4LC05530A2S5G	VM4LC05530A2P5G	VM4LC05530A2EPN
65 ④	3/4"	120-277VAC	VM4LC06530A2GLG	VM4LC06530A2PFN	VM4LC06530A2R5G	VM4LC06530A2S5G	VM4LC06530A2P5G	VM4LC06530A2EPN
70	3/4"	120-277VAC	VM4LC07030A2GLG	VM4LC07030A2PFN	VM4LC07030A2R5G	VM4LC07030A2S5G	VM4LC07030A2P5G	VM4LC07030A2EPN
80	3/4"	120-277VAC	VM4LC08030A2GLG	VM4LC08030A2PFN	VM4LC08030A2R5G	VM4LC08030A2S5G	VM4LC08030A2P5G	VM4LC08030A2EPN
90	3/4"	120-277VAC	VM4LC09030A2GLG	VM4LC09030A2PFN	VM4LC09030A2R5G	VM4LC09030A2S5G	VM4LC09030A2P5G	VM4LC09030A2EPN
100	3/4"	120-277VAC	VM4LC10030A2GLG	VM4LC10030A2PFN	VM4LC10030A2R5G	VM4LC10030A2S5G	VM4LC10030A2P5G	VM4LC10030A2EPN
105	3/4"	120-277VAC	VM4LC10530A2GLG	VM4LC10530A2PFN	VM4LC10530A2R5G	VM4LC10530A2S5G	VM4LC10530A2P5G	VM4LC10530A2EPN
130	3/4"	120-277VAC	VM4LC13030A2GLG	VM4LC13030A2PFN	VM4LC13030A2R5G	VM4LC13030A2S5G	VM4LC13030A2P5G	VM4LC13030A2EPN

① Catalog numbers shown are with Guard (except ER/EP/PF); to omit guard change ending G to N; e.g. VM4LB05530X2GLN.

② Catalog numbers shown are with 3/4" conduit openings; change "2" to "3" for 1"; e.g. VM4LB05530X3GLG.

③ 120VAC through 277VAC 50/60Hz. See logic for other voltages.

④ 40W, 50W, 55W and 65W are available in VM2LB/VM2LC shallower housings. Substitute VM2L for VM4L in catalog number.

* For Glass 12" Spin-Top Flat Lens change PFN to GFN at end of catalog number.



VM2&4LB, VM2&4LC SERIES

KILLARK

HIGH WATTAGE – ORDERING INFORMATION



Globe & Guard or Glass Refractor & Guard



Enclosed Reflector



Spin-Top Poly or Glass Flat Lens



Poly Food Optic



Spin-Top Poly or Glass Refractor

VM4LB SERIES CEILING WITH OPTIC AND GUARD ①								
WATTS	HUB SIZE ②	VOLTAGE ③	GLOBE & GUARD	TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V POLYCARBONATE REFRACTOR & GUARD	ENCLOSED REFLECTOR	POLYCARBONATE FOOD OPTIC
40 ④	3/4"	120-277VAC	VM4LB04030X2GLG	VM4LB04030X2R5G	VM4LB04030X2S5G	VM4LB04030X2P5G	VM4LB04030X2ERN	VM4LB04030X2EPN
50 ④	3/4"	120-277VAC	VM4LB05030X2GLG	VM4LB05030X2R5G	VM4LB05030X2S5G	VM4LB05030X2P5G	VM4LB05030X2ERN	VM4LB05030X2EPN
55 ④	3/4"	120-277VAC	VM4LB05530X2GLG	VM4LB05530X2R5G	VM4LB05530X2S5G	VM4LB05530X2P5G	VM4LB05530X2ERN	VM4LB05530X2EPN
65 ④	3/4"	120-277VAC	VM4LB06530X2GLG	VM4LB06530X2R5G	VM4LB06530X2S5G	VM4LB06530X2P5G	VM4LB06530X2ERN	VM4LB06530X2EPN
70	3/4"	120-277VAC	VM4LB07030X2GLG	VM4LB07030X2R5G	VM4LB07030X2S5G	VM4LB07030X2P5G	VM4LB07030X2ERN	VM4LB07030X2EPN
80	3/4"	120-277VAC	VM4LB08030X2GLG	VM4LB08030X2R5G	VM4LB08030X2S5G	VM4LB08030X2P5G	VM4LB08030X2ERN	VM4LB08030X2EPN
90	3/4"	120-277VAC	VM4LB09030X2GLG	VM4LB09030X2R5G	VM4LB09030X2S5G	VM4LB09030X2P5G	VM4LB09030X2ERN	VM4LB09030X2EPN
100	3/4"	120-277VAC	VM4LB10030X2GLG	VM4LB10030X2R5G	VM4LB10030X2S5G	VM4LB10030X2P5G	VM4LB10030X2ERN	VM4LB10030X2EPN
105	3/4"	120-277VAC	VM4LB10530X2GLG	VM4LB10530X2R5G	VM4LB10530X2S5G	VM4LB10530X2P5G	VM4LB10530X2ERN	VM4LB10530X2EPN
130	3/4"	120-277VAC	VM4LB13030X2GLG	VM4LB13030X2R5G	VM4LB13030X2S5G	VM4LB13030X2P5G	VM4LB13030X2ERN	VM4LB13030X2EPN

VM4LC SERIES CEILING WITH OPTIC AND GUARD ①								
WATTS	HUB SIZE ②	VOLTAGE ③	GLOBE & GUARD	12" SPIN-TOP POLYCARBONATE FLAT LENS* ④	TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V POLYCARBONATE REFRACTOR & GUARD	POLYCARBONATE FOOD OPTIC
40 ④	3/4"	120-277VAC	VM4LC04030X2GLG	VM4LC04030X2PFN	VM4LC04030X2R5G	VM4LC04030X2S5G	VM4LC04030X2P5G	VM4LC04030X2EPN
50 ④	3/4"	120-277VAC	VM4LC05030X2GLG	VM4LC05030X2PFN	VM4LC05030X2R5G	VM4LC05030X2S5G	VM4LC05030X2P5G	VM4LC05030X2EPN
55 ④	3/4"	120-277VAC	VM4LC05530X2GLG	VM4LC05530X2PFN	VM4LC05530X2R5G	VM4LC05530X2S5G	VM4LC05530X2P5G	VM4LC05530X2EPN
65 ④	3/4"	120-277VAC	VM4LC06530X2GLG	VM4LC06530X2PFN	VM4LC06530X2R5G	VM4LC06530X2S5G	VM4LC06530X2P5G	VM4LC06530X2EPN
70	3/4"	120-277VAC	VM4LC07030X2GLG	VM4LC07030X2PFN	VM4LC07030X2R5G	VM4LC07030X2S5G	VM4LC07030X2P5G	VM4LC07030X2EPN
80	3/4"	120-277VAC	VM4LC08030X2GLG	VM4LC08030X2PFN	VM4LC08030X2R5G	VM4LC08030X2S5G	VM4LC08030X2P5G	VM4LC08030X2EPN
90	3/4"	120-277VAC	VM4LC09030X2GLG	VM4LC09030X2PFN	VM4LC09030X2R5G	VM4LC09030X2S5G	VM4LC09030X2P5G	VM4LC09030X2EPN
100	3/4"	120-277VAC	VM4LC10030X2GLG	VM4LC10030X2PFN	VM4LC10030X2R5G	VM4LC10030X2S5G	VM4LC10030X2P5G	VM4LC10030X2EPN
105	3/4"	120-277VAC	VM4LC10530X2GLG	VM4LC10530X2PFN	VM4LC10530X2R5G	VM4LC10530X2S5G	VM4LC10530X2P5G	VM4LC10530X2EPN
130	3/4"	120-277VAC	VM4LC13030X2GLG	VM4LC13030X2PFN	VM4LC13030X2R5G	VM4LC13030X2S5G	VM4LC13030X2P5G	VM4LC13030X2EPN

① Catalog numbers shown are with Guard (except ER/EP/FP); to omit guard change ending G to N; e.g. VM4LB05530X2GLN.

② Catalog numbers shown are with 3/4" conduit openings; change "2" to "3" for 1"; e.g. VM4LB05530X3GLG.

③ 120VAC through 277VAC 50/60Hz. See logic for other voltages.

④ 40W, 50W, 55W and 65W are available in VM2LB/VM2LC shallower housings. Substitute VM2L for VM4L in catalog number.

* For Glass 12" Spin-Top Flat Lens change PFN to GFN at end of catalog number.

LIGHTING

VM2&4LB, VM2&4LC SERIES



HIGH WATTAGE – ORDERING INFORMATION



Globe & Guard or Glass Refractor & Guard



Enclosed Reflector



Spin-Top Poly or Glass Flat Lens VM4LC only



Globe, Guard and Angle Reflector



Spin-Top Poly or Glass Refractor

VM4LB SERIES WALL WITH OPTIC AND GUARD ①								
WATTS	HUB SIZE ②	VOLTAGE ③	GLOBE & GUARD	TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V POLYCARBONATE REFRACTOR & GUARD	ENCLOSED REFLECTOR	GLOBE, GUARD & ANGLE REFLECTOR ④
40 ⑤	3/4"	120-277VAC	VM4LB04030B2GLG	VM4LB04030B2R5G	VM4LB04030B2S5G	VM4LB04030B2P5G	VM4LB04030B2ERN	VM4LB04030B2GLG-A
50 ⑤	3/4"	120-277VAC	VM4LB05030B2GLG	VM4LB05030B2R5G	VM4LB05030B2S5G	VM4LB05030B2P5G	VM4LB05030B2ERN	VM4LB05030B2GLG-A
55 ⑤	3/4"	120-277VAC	VM4LB05530B2GLG	VM4LB05530B2R5G	VM4LB05530B2S5G	VM4LB05530B2P5G	VM4LB05530B2ERN	VM4LB05530B2GLG-A
65 ⑤	3/4"	120-277VAC	VM4LB06530B2GLG	VM4LB06530B2R5G	VM4LB06530B2S5G	VM4LB06530B2P5G	VM4LB06530B2ERN	VM4LB06530B2GLG-A
70	3/4"	120-277VAC	VM4LB07030B2GLG	VM4LB07030B2R5G	VM4LB07030B2S5G	VM4LB07030B2P5G	VM4LB07030B2ERN	VM4LB07030B2GLG-A
80	3/4"	120-277VAC	VM4LB08030B2GLG	VM4LB08030B2R5G	VM4LB08030B2S5G	VM4LB08030B2P5G	VM4LB08030B2ERN	VM4LB08030B2GLG-A
90	3/4"	120-277VAC	VM4LB09030B2GLG	VM4LB09030B2R5G	VM4LB09030B2S5G	VM4LB09030B2P5G	VM4LB09030B2ERN	VM4LB09030B2GLG-A
100	3/4"	120-277VAC	VM4LB10030B2GLG	VM4LB10030B2R5G	VM4LB10030B2S5G	VM4LB10030B2P5G	VM4LB10030B2ERN	VM4LB10030B2GLG-A
105	3/4"	120-277VAC	VM4LB10530B2GLG	VM4LB10530B2R5G	VM4LB10530B2S5G	VM4LB10530B2P5G	VM4LB10530B2ERN	VM4LB10530B2GLG-A
130	3/4"	120-277VAC	VM4LB13030B2GLG	VM4LB13030B2R5G	VM4LB13030B2S5G	VM4LB13030B2P5G	VM4LB13030B2ERN	VM4LB13030B2GLG-A

VM4LC SERIES WALL WITH OPTIC AND GUARD ①								
WATTS	HUB SIZE ②	VOLTAGE ③	GLOBE & GUARD	12" SPIN-TOP POLYCARBONATE FLAT LENS* ④	TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V POLYCARBONATE REFRACTOR & GUARD	GLOBE, GUARD & ANGLE REFLECTOR ④
40 ⑤	3/4"	120-277VAC	VM4LC04030B2GLG	VM4LC04030B2PFN	VM4LC04030B2R5G	VM4LC04030B2S5G	VM4LC04030B2P5G	VM4LC04030B2GLG-A
50 ⑤	3/4"	120-277VAC	VM4LC05030B2GLG	VM4LC05030B2PFN	VM4LC05030B2R5G	VM4LC05030B2S5G	VM4LC05030B2P5G	VM4LC05030B2GLG-A
55 ⑤	3/4"	120-277VAC	VM4LC05530B2GLG	VM4LC05530B2PFN	VM4LC05530B2R5G	VM4LC05530B2S5G	VM4LC05530B2P5G	VM4LC05530B2GLG-A
65 ⑤	3/4"	120-277VAC	VM4LC06530B2GLG	VM4LC06530B2PFN	VM4LC06530B2R5G	VM4LC06530B2S5G	VM4LC06530B2P5G	VM4LC06530B2GLG-A
70	3/4"	120-277VAC	VM4LC07030B2GLG	VM4LC07030B2PFN	VM4LC07030B2R5G	VM4LC07030B2S5G	VM4LC07030B2P5G	VM4LC07030B2GLG-A
80	3/4"	120-277VAC	VM4LC08030B2GLG	VM4LC08030B2PFN	VM4LC08030B2R5G	VM4LC08030B2S5G	VM4LC08030B2P5G	VM4LC08030B2GLG-A
90	3/4"	120-277VAC	VM4LC09030B2GLG	VM4LC09030B2PFN	VM4LC09030B2R5G	VM4LC09030B2S5G	VM4LC09030B2P5G	VM4LC09030B2GLG-A
100	3/4"	120-277VAC	VM4LC10030B2GLG	VM4LC10030B2PFN	VM4LC10030B2R5G	VM4LC10030B2S5G	VM4LC10030B2P5G	VM4LC10030B2GLG-A
105	3/4"	120-277VAC	VM4LC10530B2GLG	VM4LC10530B2PFN	VM4LC10530B2R5G	VM4LC10530B2S5G	VM4LC10530B2P5G	VM4LC10530B2GLG-A
130	3/4"	120-277VAC	VM4LC13030B2GLG	VM4LC13030B2PFN	VM4LC13030B2R5G	VM4LC13030B2S5G	VM4LC13030B2P5G	VM4LC13030B2GLG-A

① Catalog numbers shown are with Guard (except ERI/EP/PF); to omit guard change ending G to N; e.g. VM4LB05530B2GLN.

② Catalog numbers shown are with 3/4" conduit openings; change "2" to "3" for 1"; e.g. VM4LB05530B3GLG.

③ 120VAC through 277VAC 50/60Hz. See logic for other voltages.

④ See logic for reflector ordering options or order angle reflector VMPA40 separately.

⑤ 40W, 50W, 55W and 65W are available in VM2LB/VM2LC shallower housings. Substitute VM2L for VM4L in catalog number.

* For Glass 12" Spin-Top Flat Lens change PFN to GFN at end of catalog number.



VM2&4LB, VM2&4LC SERIES

KILLARK

HIGH WATTAGE – ORDERING INFORMATION



Globe & Guard or Glass Refractor & Guard



Enclosed Reflector



Spin-Top Poly or Glass Flat Lens



Poly Food Optic



Spin-Top Poly or Glass Refractor

VM4LB SERIES CONE WITH OPTIC AND GUARD ①								
WATTS	HUB SIZE ②	VOLTAGE ③	GLOBE & GUARD	TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V POLYCARBONATE REFRACTOR & GUARD	ENCLOSED REFLECTOR	POLYCARBONATE FOOD OPTIC
40④	3/4"	120-277VAC	VM4LB04030C2GLG	VM4LB04030C2R5G	VM4LB04030C2S5G	VM4LB04030C2P5G	VM4LB04030C2ERN	VM4LB04030C2EPN
50④	3/4"	120-277VAC	VM4LB05030C2GLG	VM4LB05030C2R5G	VM4LB05030C2S5G	VM4LB05030C2P5G	VM4LB05030C2ERN	VM4LB05030C2EPN
55④	3/4"	120-277VAC	VM4LB05530C2GLG	VM4LB05530C2R5G	VM4LB05530C2S5G	VM4LB05530C2P5G	VM4LB05530C2ERN	VM4LB05530C2EPN
65④	3/4"	120-277VAC	VM4LB06530C2GLG	VM4LB06530C2R5G	VM4LB06530C2S5G	VM4LB06530C2P5G	VM4LB06530C2ERN	VM4LB06530C2EPN
70	3/4"	120-277VAC	VM4LB07030C2GLG	VM4LB07030C2R5G	VM4LB07030C2S5G	VM4LB07030C2P5G	VM4LB07030C2ERN	VM4LB07030C2EPN
80	3/4"	120-277VAC	VM4LB08030C2GLG	VM4LB08030C2R5G	VM4LB08030C2S5G	VM4LB08030C2P5G	VM4LB08030C2ERN	VM4LB08030C2EPN
90	3/4"	120-277VAC	VM4LB09030C2GLG	VM4LB09030C2R5G	VM4LB09030C2S5G	VM4LB09030C2P5G	VM4LB09030C2ERN	VM4LB09030C2EPN
100	3/4"	120-277VAC	VM4LB10030C2GLG	VM4LB10030C2R5G	VM4LB10030C2S5G	VM4LB10030C2P5G	VM4LB10030C2ERN	VM4LB10030C2EPN
105	3/4"	120-277VAC	VM4LB10530C2GLG	VM4LB10530C2R5G	VM4LB10530C2S5G	VM4LB10530C2P5G	VM4LB10530C2ERN	VM4LB10530C2EPN
130	3/4"	120-277VAC	VM4LB13030C2GLG	VM4LB13030C2R5G	VM4LB13030C2S5G	VM4LB13030C2P5G	VM4LB13030C2ERN	VM4LB13030C2EPN

VM4LC SERIES CONE WITH OPTIC AND GUARD ①								
WATTS	HUB SIZE ②	VOLTAGE ③	GLOBE & GUARD	12" SPIN-TOP POLYCARBONATE FLAT LENS*	TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V POLYCARBONATE REFRACTOR & GUARD	POLYCARBONATE FOOD OPTIC
40④	3/4"	120-277VAC	VM4LC04030C2GLG	VM4LC04030C2PFN	VM4LC04030C2R5G	VM4LC04030C2S5G	VM4LC04030C2P5G	VM4LC04030C2EPN
50④	3/4"	120-277VAC	VM4LC05030C2GLG	VM4LC05030C2PFN	VM4LC05030C2R5G	VM4LC05030C2S5G	VM4LC05030C2P5G	VM4LC05030C2EPN
55④	3/4"	120-277VAC	VM4LC05530C2GLG	VM4LC05530C2PFN	VM4LC05530C2R5G	VM4LC05530C2S5G	VM4LC05530C2P5G	VM4LC05530C2EPN
65④	3/4"	120-277VAC	VM4LC06530C2GLG	VM4LC06530C2PFN	VM4LC06530C2R5G	VM4LC06530C2S5G	VM4LC06530C2P5G	VM4LC06530C2EPN
70	3/4"	120-277VAC	VM4LC07030C2GLG	VM4LC07030C2PFN	VM4LC07030C2R5G	VM4LC07030C2S5G	VM4LC07030C2P5G	VM4LC07030C2EPN
80	3/4"	120-277VAC	VM4LC08030C2GLG	VM4LC08030C2PFN	VM4LC08030C2R5G	VM4LC08030C2S5G	VM4LC08030C2P5G	VM4LC08030C2EPN
90	3/4"	120-277VAC	VM4LC09030C2GLG	VM4LC09030C2PFN	VM4LC09030C2R5G	VM4LC09030C2S5G	VM4LC09030C2P5G	VM4LC09030C2EPN
100	3/4"	120-277VAC	VM4LC10030C2GLG	VM4LC10030C2PFN	VM4LC10030C2R5G	VM4LC10030C2S5G	VM4LC10030C2P5G	VM4LC10030C2EPN
105	3/4"	120-277VAC	VM4LC10530C2GLG	VM4LC10530C2PFN	VM4LC10530C2R5G	VM4LC10530C2S5G	VM4LC10530C2P5G	VM4LC10530C2EPN
130	3/4"	120-277VAC	VM4LC13030C2GLG	VM4LC13030C2PFN	VM4LC13030C2R5G	VM4LC13030C2S5G	VM4LC13030C2P5G	VM4LC13030C2EPN

① Catalog numbers shown are with Guard (except ER/EPI/PF); to omit guard change ending G to N; e.g. VM4LB05530C2GLN.
 ② Catalog numbers shown are with 3/4" conduit openings; change "2" to "3" for 1"; e.g. VM4LB05530C3GLG.
 ③ 120VAC through 277VAC 50/60Hz. See logic for other voltages.
 ④ 40W, 50W, 55W and 65W are available in VM2LB/VM2LC shallower housings. Substitute VM2L for VM4L in catalog number.
 * For Glass 12" Spin-Top Flat Lens change PFN to GFN at end of catalog number.

LIGHTING

VM2&4LB, VM2&4LC SERIES



HIGH WATTAGE – ORDERING INFORMATION



Globe & Guard or Glass Refractor & Guard



Spin-Top Poly or Glass Refractor



Spin-Top Poly or Glass Flat Lens



Enclosed Reflector



Globe Guard & Angle Reflector

VM4LB SERIES 25° STANCHION WITH OPTIC AND GUARD ①								
WATTS	HUB SIZE ②	VOLTAGE ③	GLOBE & GUARD	TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V POLYCARBONATE REFRACTOR & GUARD	ENCLOSED REFLECTOR	GLOBE, GUARD & ANGLE REFLECTOR ④
40 ⑤	1-1/2"	120-277VAC	VM4LB04030D5GLG	VM4LB04030D5R5G	VM4LB04030D5S5G	VM4LB04030D5P5G	VM4LB04030D5ERN	VM4LB04030D5GLG-A
50 ⑤	1-1/2"	120-277VAC	VM4LB05030D5GLG	VM4LB05030D5R5G	VM4LB05030D5S5G	VM4LB05030D5P5G	VM4LB05030D5ERN	VM4LB05030D5GLG-A
55 ⑤	1-1/2"	120-277VAC	VM4LB05530D5GLG	VM4LB05530D5R5G	VM4LB05530D5S5G	VM4LB05530D5P5G	VM4LB05530D5ERN	VM4LB05530D5GLG-A
65 ⑤	1-1/2"	120-277VAC	VM4LB06530D5GLG	VM4LB06530D5R5G	VM4LB06530D5S5G	VM4LB06530D5P5G	VM4LB06530D5ERN	VM4LB06530D5GLG-A
70	1-1/2"	120-277VAC	VM4LB07030D5GLG	VM4LB07030D5R5G	VM4LB07030D5S5G	VM4LB07030D5P5G	VM4LB07030D5ERN	VM4LB07030D5GLG-A
80	1-1/2"	120-277VAC	VM4LB08030D5GLG	VM4LB08030D5R5G	VM4LB08030D5S5G	VM4LB08030D5P5G	VM4LB08030D5ERN	VM4LB08030D5GLG-A
90	1-1/2"	120-277VAC	VM4LB09030D5GLG	VM4LB09030D5R5G	VM4LB09030D5S5G	VM4LB09030D5P5G	VM4LB09030D5ERN	VM4LB09030D5GLG-A
100	1-1/2"	120-277VAC	VM4LB10030D5GLG	VM4LB10030D5R5G	VM4LB10030D5S5G	VM4LB10030D5P5G	VM4LB10030D5ERN	VM4LB10030D5GLG-A
105	1-1/2"	120-277VAC	VM4LB10530D5GLG	VM4LB10530D5R5G	VM4LB10530D5S5G	VM4LB10530D5P5G	VM4LB10530D5ERN	VM4LB10530D5GLG-A
130	1-1/2"	120-277VAC	VM4LB13030D5GLG	VM4LB13030D5R5G	VM4LB13030D5S5G	VM4LB13030D5P5G	VM4LB13030D5ERN	VM4LB13030D5GLG-A

VM4LC SERIES 25° STANCHION WITH OPTIC AND GUARD ①								
WATTS	HUB SIZE ②	VOLTAGE ③	GLOBE & GUARD	12" SPIN-TOP POLYCARBONATE FLAT LENS* ⑤	TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V POLYCARBONATE REFRACTOR & GUARD	GLOBE, GUARD & ANGLE REFLECTOR ④
40 ⑤	1-1/2"	120-277VAC	VM4LC04030D5GLG	VM4LC04030D5PFN	VM4LC04030D5R5G	VM4LC04030D5S5G	VM4LC04030D5P5G	VM4LC04030D5GLG-A
50 ⑤	1-1/2"	120-277VAC	VM4LC05030D5GLG	VM4LC05030D5PFN	VM4LC05030D5R5G	VM4LC05030D5S5G	VM4LC05030D5P5G	VM4LC05030D5GLG-A
55 ⑤	1-1/2"	120-277VAC	VM4LC05530D5GLG	VM4LC05530D5PFN	VM4LC05530D5R5G	VM4LC05530D5S5G	VM4LC05530D5P5G	VM4LC05530D5GLG-A
65 ⑤	1-1/2"	120-277VAC	VM4LC06530D5GLG	VM4LC06530D5PFN	VM4LC06530D5R5G	VM4LC06530D5S5G	VM4LC06530D5P5G	VM4LC06530D5GLG-A
70	1-1/2"	120-277VAC	VM4LC07030D5GLG	VM4LC07030D5PFN	VM4LC07030D5R5G	VM4LC07030D5S5G	VM4LC07030D5P5G	VM4LC07030D5GLG-A
80	1-1/2"	120-277VAC	VM4LC08030D5GLG	VM4LC08030D5PFN	VM4LC08030D5R5G	VM4LC08030D5S5G	VM4LC08030D5P5G	VM4LC08030D5GLG-A
90	1-1/2"	120-277VAC	VM4LC09030D5GLG	VM4LC09030D5PFN	VM4LC09030D5R5G	VM4LC09030D5S5G	VM4LC09030D5P5G	VM4LC09030D5GLG-A
100	1-1/2"	120-277VAC	VM4LC10030D5GLG	VM4LC10030D5PFN	VM4LC10030D5R5G	VM4LC10030D5S5G	VM4LC10030D5P5G	VM4LC10030D5GLG-A
105	1-1/2"	120-277VAC	VM4LC10530D5GLG	VM4LC10530D5PFN	VM4LC10530D5R5G	VM4LC10530D5S5G	VM4LC10530D5P5G	VM4LC10530D5GLG-A
130	1-1/2"	120-277VAC	VM4LC13030D5GLG	VM4LC13030D5PFN	VM4LC13030D5R5G	VM4LC13030D5S5G	VM4LC13030D5P5G	VM4LC13030D5GLG-A

① Catalog numbers shown are with Guard (except ER/EP/PF); to omit guard change ending G to N; e.g. VM4LB05530D5GLN.

② Catalog numbers shown are with 1-1/2" conduit openings; change "5" to "4" for 1-1/4"; e.g. VM4LB05530D4GLG.

③ 120VAC through 277VAC 50/60Hz. See logic for other voltages.

④ See logic for reflector ordering options or order angle reflector VMPA40 separately.

⑤ 40W, 50W, 55W and 65W are available in VM2LB/VM2LC shallower housings. Substitute VM2L for VM4L in catalog number.

* For Glass 12" Spin-Top Flat Lens change PFN to GFN at end of catalog number.



VM2&4LB, VM2&4LC SERIES

KILLARK

HIGH WATTAGE – ORDERING INFORMATION



Globe & Guard or Glass Refractor & Guard



Spin-Top Poly or Glass Flat Lens



Spin-Top Poly or Glass Refractor



Enclosed Reflector



Globe, Guard and Dome Reflector

VM4LB SERIES STRAIGHT STANCHION WITH OPTIC AND GUARD ①

WATTS	HUB SIZE ②	VOLTAGE ③	GLOBE & GUARD	TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V POLYCARBONATE REFRACTOR & GUARD	ENCLOSED REFLECTOR	GLOBE GUARD AND DOME REFLECTOR ④
40 ④	1-1/2"	120-277VAC	VM4LB04030S5GLG	VM4LB04030S5R5G	VM4LB04030S5S5G	VM4LB04030S5P5G	VM4LB04030S5ERN	VM4LB04030S5GLG-S
50 ④	1-1/2"	120-277VAC	VM4LB05030S5GLG	VM4LB05030S5R5G	VM4LB05030S5S5G	VM4LB05030S5P5G	VM4LB05030S5ERN	VM4LB05030S5GLG-S
55 ④	1-1/2"	120-277VAC	VM4LB05530S5GLG	VM4LB05530S5R5G	VM4LB05530S5S5G	VM4LB05530S5P5G	VM4LB05530S5ERN	VM4LB05530S5GLG-S
65 ④	1-1/2"	120-277VAC	VM4LB06530S5GLG	VM4LB06530S5R5G	VM4LB06530S5S5G	VM4LB06530S5P5G	VM4LB06530S5ERN	VM4LB06530S5GLG-S
70	1-1/2"	120-277VAC	VM4LB07030S5GLG	VM4LB07030S5R5G	VM4LB07030S5S5G	VM4LB07030S5P5G	VM4LB07030S5ERN	VM4LB07030S5GLG-S
80	1-1/2"	120-277VAC	VM4LB08030S5GLG	VM4LB08030S5R5G	VM4LB08030S5S5G	VM4LB08030S5P5G	VM4LB08030S5ERN	VM4LB08030S5GLG-S
90	1-1/2"	120-277VAC	VM4LB09030S5GLG	VM4LB09030S5R5G	VM4LB09030S5S5G	VM4LB09030S5P5G	VM4LB09030S5ERN	VM4LB09030S5GLG-S
100	1-1/2"	120-277VAC	VM4LB10030S5GLG	VM4LB10030S5R5G	VM4LB10030S5S5G	VM4LB10030S5P5G	VM4LB10030S5ERN	VM4LB10030S5GLG-S
105	1-1/2"	120-277VAC	VM4LB10530S5GLG	VM4LB10530S5R5G	VM4LB10530S5S5G	VM4LB10530S5P5G	VM4LB10530S5ERN	VM4LB10530S5GLG-S
130	1-1/2"	120-277VAC	VM4LB13030S5GLG	VM4LB13030S5R5G	VM4LB13030S5S5G	VM4LB13030S5P5G	VM4LB13030S5ERN	VM4LB13030S5GLG-S

VM4LC SERIES STRAIGHT STANCHION WITH OPTIC AND GUARD ①

WATTS	HUB SIZE ②	VOLTAGE ③	GLOBE & GUARD	12" SPIN-TOP POLYCARBONATE FLAT LENS* ⑤	TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V POLYCARBONATE REFRACTOR & GUARD	GLOBE GUARD AND DOME REFLECTOR ④
40 ④	1-1/2"	120-277VAC	VM4LC04030S5GLG	VM4LC04030S5PFN	VM4LC04030S5R5G	VM4LC04030S5S5G	VM4LC04030S5P5G	VM4LC04030S5GLG-S
50 ④	1-1/2"	120-277VAC	VM4LC05030S5GLG	VM4LC05030S5PFN	VM4LC05030S5R5G	VM4LC05030S5S5G	VM4LC05030S5P5G	VM4LC05030S5GLG-S
55 ④	1-1/2"	120-277VAC	VM4LC05530S5GLG	VM4LC05530S5PFN	VM4LC05530S5R5G	VM4LC05530S5S5G	VM4LC05530S5P5G	VM4LC05530S5GLG-S
65 ④	1-1/2"	120-277VAC	VM4LC06530S5GLG	VM4LC06530S5PFN	VM4LC06530S5R5G	VM4LC06530S5S5G	VM4LC06530S5P5G	VM4LC06530S5GLG-S
70	1-1/2"	120-277VAC	VM4LC07030S5GLG	VM4LC07030S5PFN	VM4LC07030S5R5G	VM4LC07030S5S5G	VM4LC07030S5P5G	VM4LC07030S5GLG-S
80	1-1/2"	120-277VAC	VM4LC08030S5GLG	VM4LC08030S5PFN	VM4LC08030S5R5G	VM4LC08030S5S5G	VM4LC08030S5P5G	VM4LC08030S5GLG-S
90	1-1/2"	120-277VAC	VM4LC09030S5GLG	VM4LC09030S5PFN	VM4LC09030S5R5G	VM4LC09030S5S5G	VM4LC09030S5P5G	VM4LC09030S5GLG-S
100	1-1/2"	120-277VAC	VM4LC10030S5GLG	VM4LC10030S5PFN	VM4LC10030S5R5G	VM4LC10030S5S5G	VM4LC10030S5P5G	VM4LC10030S5GLG-S
105	1-1/2"	120-277VAC	VM4LC10530S5GLG	VM4LC10530S5PFN	VM4LC10530S5R5G	VM4LC10530S5S5G	VM4LC10530S5P5G	VM4LC10530S5GLG-S
130	1-1/2"	120-277VAC	VM4LC13030S5GLG	VM4LC13030S5PFN	VM4LC13030S5R5G	VM4LC13030S5S5G	VM4LC13030S5P5G	VM4LC13030S5GLG-S

① Catalog numbers shown are with Guard (except ER/EPI/PF); to omit guard change ending G to N; e.g. VM4LB05530S5GLN.

② Catalog numbers shown are with 1-1/2" conduit openings; change "5" to "4" for 1-1/4"; e.g. VM4LB05530S4GLG.

③ 120VAC through 277VAC 50/60Hz. See logic for other voltages.

④ See logic for reflector ordering options or order dome reflector VMPSD40 separately.

⑤ 40W, 50W, 55W and 65W are available in VM2LB/VM2LC shallower housings. Substitute VM2L for VM4L in catalog number.

* For Glass 12" Spin-Top Flat Lens change PRN to GFN at end of catalog number.

LIGHTING

VM2&4LB, VM2&4LC SERIES



HIGH WATTAGE – ORDERING INFORMATION



Globe & Guard or Glass Refractor & Guard



Enclosed Reflector



Spin-Top Poly or Glass Flat Lens



Poly Food Optic



Spin-Top Poly or Glass Refractor

VM4LB SERIES EZ ADAPTER WITH OPTIC AND GUARD ① ②								
WATTS	HUB SIZE ②	VOLTAGE ③	GLOBE & GUARD	TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V POLYCARBONATE REFRACTOR & GUARD	ENCLOSED REFLECTOR	POLYCARBONATE FOOD OPTIC
40Ⓞ	②	120-277VAC	VM4LB04030EZGLG	VM4LB04030EZR5G	VM4LB04030EZS5G	VM4LB04030EZP5G	VM4LB04030EZERN	VM4LB04030EZEPN
50Ⓞ	②	120-277VAC	VM4LB05030EZGLG	VM4LB05030EZR5G	VM4LB05030EZS5G	VM4LB05030EZP5G	VM4LB05030EZERN	VM4LB05030EZEPN
55Ⓞ	②	120-277VAC	VM4LB05530EZGLG	VM4LB05530EZR5G	VM4LB05530EZS5G	VM4LB05530EZP5G	VM4LB05530EZERN	VM4LB05530EZEPN
65Ⓞ	②	120-277VAC	VM4LB06530EZGLG	VM4LB06530EZR5G	VM4LB06530EZS5G	VM4LB06530EZP5G	VM4LB06530EZERN	VM4LB06530EZEPN
70	②	120-277VAC	VM4LB07030EZGLG	VM4LB07030EZR5G	VM4LB07030EZS5G	VM4LB07030EZP5G	VM4LB07030EZERN	VM4LB07030EZEPN
80	②	120-277VAC	VM4LB08030EZGLG	VM4LB08030EZR5G	VM4LB08030EZS5G	VM4LB08030EZP5G	VM4LB08030EZERN	VM4LB08030EZEPN
90	②	120-277VAC	VM4LB09030EZGLG	VM4LB09030EZR5G	VM4LB09030EZS5G	VM4LB09030EZP5G	VM4LB09030EZERN	VM4LB09030EZEPN
100	②	120-277VAC	VM4LB10030EZGLG	VM4LB10030EZR5G	VM4LB10030EZS5G	VM4LB10030EZP5G	VM4LB10030EZERN	VM4LB10030EZEPN
105	②	120-277VAC	VM4LB10530EZGLG	VM4LB10530EZR5G	VM4LB10530EZS5G	VM4LB10530EZP5G	VM4LB10530EZERN	VM4LB10530EZEPN
130	②	120-277VAC	VM4LB13030EZGLG	VM4LB13030EZR5G	VM4LB13030EZS5G	VM4LB13030EZP5G	VM4LB13030EZERN	VM4LB13030EZEPN

VM4LC SERIES EZ ADAPTER WITH OPTIC AND GUARD ① ②								
WATTS	HUB SIZE ②	VOLTAGE ③	GLOBE & GUARD	12" SPIN-TOP POLYCARBONATE FLAT LENS* ④	TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V GLASS REFRACTOR & GUARD	12" SPIN-TOP TYPE V POLYCARBONATE REFRACTOR & GUARD	POLYCARBONATE FOOD OPTIC
40Ⓞ	②	120-277VAC	VM4LC04030EZGLG	VM4LC04030EZPFN	VM4LC04030EZR5G	VM4LC04030EZS5G	VM4LC04030EZP5G	VM4LC04030EZEPN
50Ⓞ	②	120-277VAC	VM4LC05030EZGLG	VM4LC05030EZPFN	VM4LC05030EZR5G	VM4LC05030EZS5G	VM4LC05030EZP5G	VM4LC05030EZEPN
55Ⓞ	②	120-277VAC	VM4LC05530EZGLG	VM4LC05530EZPFN	VM4LC05530EZR5G	VM4LC05530EZS5G	VM4LC05530EZP5G	VM4LC05530EZEPN
65Ⓞ	②	120-277VAC	VM4LC06530EZGLG	VM4LC06530EZPFN	VM4LC06530EZR5G	VM4LC06530EZS5G	VM4LC06530EZP5G	VM4LC06530EZEPN
70	②	120-277VAC	VM4LC07030EZGLG	VM4LC07030EZPFN	VM4LC07030EZR5G	VM4LC07030EZS5G	VM4LC07030EZP5G	VM4LC07030EZEPN
80	②	120-277VAC	VM4LC08030EZGLG	VM4LC08030EZPFN	VM4LC08030EZR5G	VM4LC08030EZS5G	VM4LC08030EZP5G	VM4LC08030EZEPN
90	②	120-277VAC	VM4LC09030EZGLG	VM4LC09030EZPFN	VM4LC09030EZR5G	VM4LC09030EZS5G	VM4LC09030EZP5G	VM4LC09030EZEPN
100	②	120-277VAC	VM4LC10030EZGLG	VM4LC10030EZPFN	VM4LC10030EZR5G	VM4LC10030EZS5G	VM4LC10030EZP5G	VM4LC10030EZEPN
105	②	120-277VAC	VM4LC10530EZGLG	VM4LC10530EZPFN	VM4LC10530EZR5G	VM4LC10530EZS5G	VM4LC10530EZP5G	VM4LC10530EZEPN
130	②	120-277VAC	VM4LC13030EZGLG	VM4LC13030EZPFN	VM4LC13030EZR5G	VM4LC13030EZS5G	VM4LC13030EZP5G	VM4LC13030EZEPN

① Catalog numbers shown are with Guard (except ER/EP/PF); to omit guard change ending G to N; e.g. VM4LB05530EZGLN.

② VMEZA tank adapters UL "classified" as an assembly for use between VM tanks and EZ mounts. Order EZ mounts separately - see page L31 on components page.

③ 120VAC through 277VAC 50/60Hz. See logic for other voltages.

④ 40W, 50W, 55W and 65W are available in VM2LB/VM2LC shallower housings. Substitute VM2L for VM4L in catalog number.

* For Glass 12" Spin-Top Flat Lens change PFN to GFN at end of catalog number.



VM2&4LB, VM2&4LC SERIES

KILLARK

HIGH WATTAGE – COMPONENTS



Pendant



Ceiling



Wall



Cone Top



25° Stanchion



Straight Stanchion



EZ Adapter*
VMEZA



Tank Adapter
See next page to order

CERTILITE® VM MOUNTING SPLICE BOXES							
HUB SIZE	CATALOG NUMBER						
	PENDANT	CEILING 4 HUB	CEILING 5 HUB	WALL	CONE TOP	25 DEGREE STANCHION	90 DEGREE STANCHION
3/4"	VMA2B	VMX2B	VMX6B	VMB2B	VMC2B	—	—
1"	VMA3B	VMX3B	VMX7B	VMB3B	VMC3B	—	—
1-1/4"	—	—	—	—	—	VMD4B	VMS4B
1-1/2"	—	—	—	—	—	VMD5B	VMS5B
M-20	—	VMX8B**	VMX9B**	VMB8B**	—	—	—

* VMEZA is used between a ballast tank and an EZ mount - ordered separately. See catalog grids.

** Furnished with Ⓢ non-metallic plugs. Also available: VMB10B wall 4xM25 hubs, and VMB810B 2xM20 side hubs and 2xM25 top/bottom

VM2L/VM4L LED OPTICS AND ACCESSORIES		
DESCRIPTION	OPTIC LOGIC	GUARDⓈ
Flat Lens (glass spin top) "C" tank only	VZRGF12 (GF)	VZRF12GRD
Flat Lens (polycarbonate spin top) "C" tank only*	VZRPF12 (PF)	VZRF12GRD
Globe (glass)	VMG25 (GL)	VMAG25S
Refractor (all glass) Type V	VMR255 (R5)	VMAG25S
Enclosed Reflector	VMER40 (ER)	VMERG
Enclosed Reflector with polycarbonate Lens*	VMEP40 (EP)Ⓢ	—
Refractor (polycarbonate spin top) 12" Type V*	VZRP175B (P5)	VMRWGS
Refractor (glass spin top) 12" Type V	VZRG4050 (S5)	VMRWGS

* Non-glass over Food/Grain Class II Div 1 Group G Certified; VMEP40, VZRP175B, and VZRPF12

VM2L/VM4L LED REFLECTORS AND ACCESSORIES	
DOME REFLECTOR (Polyester reinforced fiberglass)	VMPSD40
ANGLE REFLECTOR (Polyester reinforced fiberglass)	VMPA40
DEEP DOME REFLECTOR (White Painted Aluminum)	HRD400
DEEP DOME REFLECTOR (Anodized Aluminum)	HRD400ALZ
120VAC Photocell with FS Style CoverⓈ	VMFSPC1
208-277VAC Photocell with FS Style CoverⓈ	VMFSPC2
Bottom Closure for VMAG25SⓈ	VMAGBC
4-sided EXIT Accessory (use without guard)Ⓢ	VEXA400

Ⓢ Order single-gang FS box separately. For photocell factory installed in tank, see logic.

Ⓢ For use with Generator or UPS powered fixtures

Ⓢ For wall applications mount must be spaced out for bottom hub

Ⓢ Guards are 316 Stainless Steel. Bottom closure for VMAG25S pt. no. VMAGBC



VMG25



VMR255
VMR253
VMR251



VMAG25S



VMAGBC



VMER40



VMERG



VMEP40



VZRG4050
VZRG4020



VMRWGS



VZRPF/VZRGF



VMPSD40

Standard Dome, Fiberglass
White Reflector, Dia: 16"



VMPA40

300 Angle, Fiberglass
White Reflector, Dia:16"



VMFSPC



VEXA400
Fixture not included



HRD400

Deep Aluminum, White
Reflector, Dia: 21"



HRD400ALZ

Deep Aluminum, Anodized
Reflector, Dia: 21"

LIGHTING

VM2&4LB, VM2&4LC SERIES



HIGH WATTAGE – COMPONENTS & RATINGS



“EZ” Mount Adapter
For easy fixture relocation or to repair fixture on ‘bench top’.

VMEZA adapter is used between a ballast tank and EZ mount ordered separately.



Competitive Adapters

Designed to ease upgrading of other manufacturer’s fixtures to KILLARK LEDs where removal of existing mounting screws and conduit would be difficult and time consuming.



Patented Design



Pendant



Ceiling



Wall Bracket



25° Stanchion

MOUNTING BOXES				
CATALOG NUMBER				HUB SIZE
PENDANT	CEILING	BRACKET	STANCHION	
EZA2	EZX2	EZB3	—	3/4”
EZA3	EZX3	EZB3	—	1”
—	—	—	EZD4A	1-1/4” / 1/2”*

*1-1/2” furnished with 1-1/2”-1-1/4” reducer and extension.

Tank adapter to Crouse-Hinds® VM Series mounts Tank adapter to CH (70’s era wall mount with deep box) Tank adapter to Appleton® MERCMASTER II mounts Tank adapter to Appleton® MERCMASTER III mounts Tank adapter to Hazlux® mounts	VMCHVM VMCHVM-DEEP VMM2LP VMM3KP VMHLDS
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① Crouse-Hinds is a registered trademark of EATON® corporation.

② Appleton and MERCMASTER are registered trademarks of Emerson® Industrial Automation.

③ Hazlux is a registered trademark of Thomas & Betts.

TOTAL LUMEN OUTPUT						
WATTAGE	GLOBE (VM4LB)	GLOBE (VM4LC)	FLAT LENS (VM4LC)	L70		
				TM-21	CALCULATED	
40	4600	4180	3873	60100	270000	
50	6715	6087	5556	72600	278000	
55	5842	5275	4790	60100	270000	
65	8577	8229	7441	72600	278000	
70	7111	6524	5980	60100	270000	
80	8525	7559	6923	60100	270000	
90	10520	10210	9115	72600	278000	
100	1220	11910	10666	60100	270000	
105	10780	9600	8809	60100	270000	
130	15630	15370	13780	72600	278000	

* Extra high lumen per watt LED’s

① Driver THD<20%, Powerfactor 99% @ 120V; Line Regulation 2%; Load regulation 5%; Protected against Over-voltage and Over-current.

② Weights are shown with VM4LB with ceiling mount. VM4LC with ceiling mount approx. 17.4 lbs. For VM2L models, deduct approx. 1.25 lbs.

③ TM-21 based values require very long duration testing. The TM-21/L70 “official reported” value is based on at least 10,000 hours testing (at time of printing) at 1000mA to 1500mA drive current, depending on LED chip utilized - “Reported L70” is a factor of test duration. KILLARK’s VM4LC/B series utilizes lower 700mA maximum drive current – “calculated” values by the major chip vendors utilized predict L70 life up to 278,000 hours even at 1000mA.

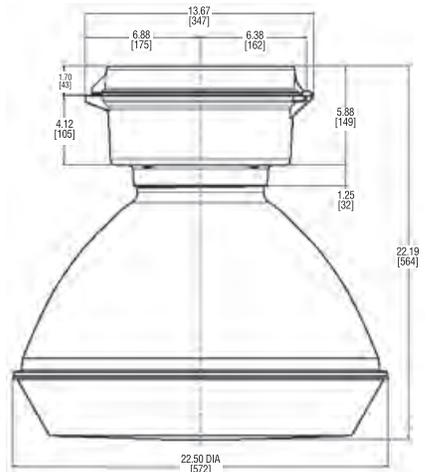
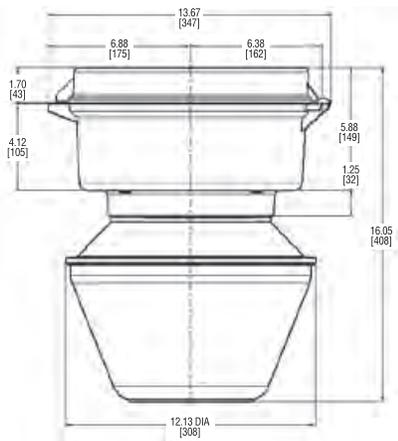
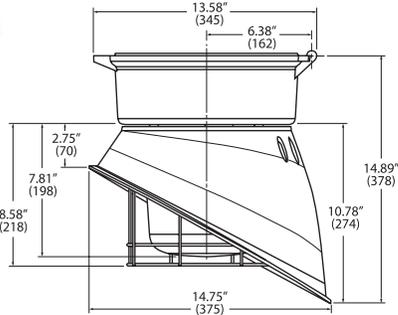
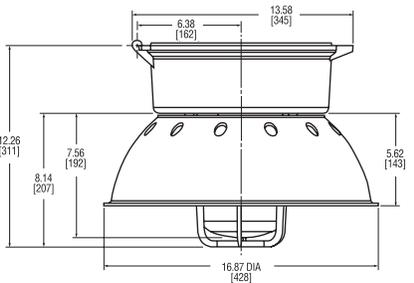
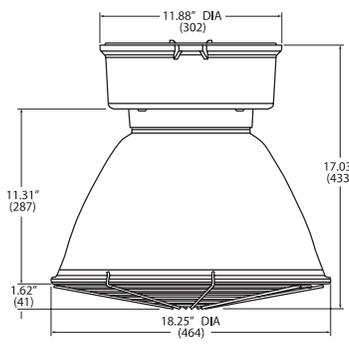
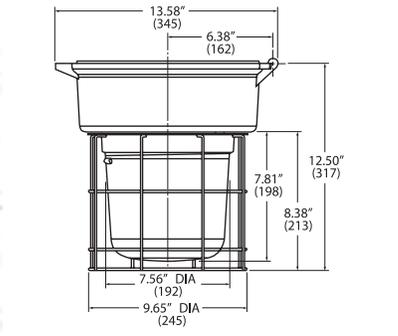
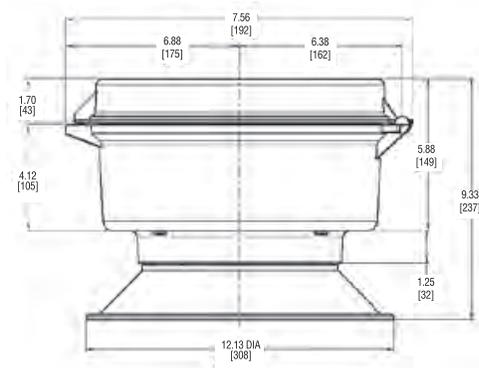
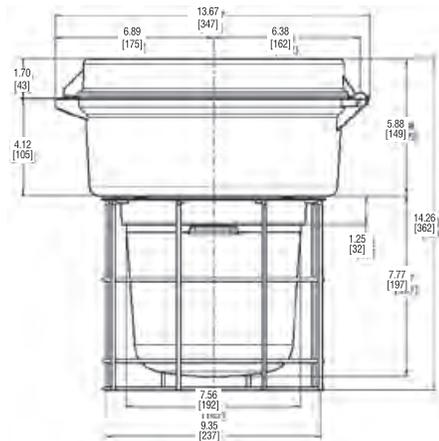
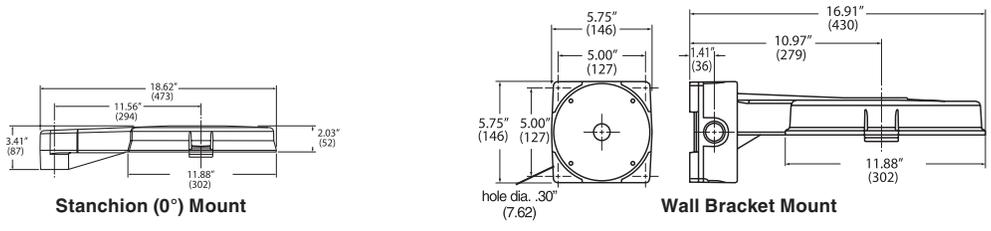
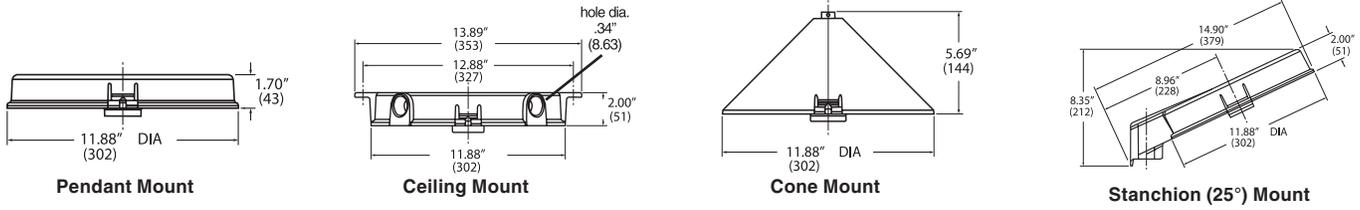
④ For a given wattage current values are the same, regardless of tank type VM2LB/C or VM4LB/C.

⑤ Replace (x) with tank size 2 or 4 and replace (y) with heat sink style B or C.

ORDERING INFORMATION AND AMBIENT SUITABILITY						C1D2			C2D1		
CATALOG NO. ⑤	WEIGHT LBS./KG	WATTS	VOLTAGE	AMPS	LUMENS	40°C	55°C	65°C	40°C	55°C	65°C
VM(x)L(y)4030	18.90 / 8.57	40	120-277 VAC	0.35-0.16							
VM(x)L(y)4033		40	347-480VAC	0.12-0.09		T4A	T4A	T4		EFG	
VM(x)L(y)4034		40	120-250VDC	0.33-0.16							
VM(x)L(y)5030		50	120-277 VAC	0.43-0.21							
VM(x)L(y)5033		50	347-480VAC	0.15-0.12		T4A	T4A	T4		EFG	
VM(x)L(y)5034		50	120-250VDC	0.42-0.20							
VM(x)L(y)5530		55	120-277 VAC	0.48-0.21							
VM(x)L(y)5533		55	347-480VAC	0.17-0.12		T4A	T4A	T4		EFG	
VM(x)L(y)5534		55	120-250VDC	0.46-0.22							
VM(x)L(y)6530		65	120-277 VAC	0.56-0.24							
VM(x)L(y)6533		65	347-480VAC	0.19-0.14		T4A	T4A	T4		EFG	
VM(x)L(y)6534		65	120-250VDC	0.54-0.26							
VM4L(y)7030		70	120-277 VAC	0.60-0.30							
VM4L(y)7033		70	347-480VAC	0.20-0.17		T4A	T4	-		EFG	-
VM4L(y)7034		70	120-250VDC	0.58-0.28							
VM4L(y)8030		80	120-277 VAC	0.68-0.30							
VM4L(y)8033		80	347-480VAC	0.24-0.17		T4A	T4	-		EFG	-
VM4L(y)8034		80	120-250VDC	0.67-0.32							
VM4L(y)9030		90	120-277 VAC	0.77-0.33							
VM4L(y)9033		90	347-480VAC	0.27-0.19		T4A	T4	-		EFG	-
VM4L(y)9034		90	120-250VDC	0.75-0.36							
VM4L(y)10030	100	120-277 VAC	0.85-0.39								
VM4L(y)10033	100	347-480VAC	0.29-0.23		T4A	T4	-		EFG	-	
VM4L(y)10034	100	120-250VDC	0.83-0.40								
VM4L(y)10530	105	120-277 VAC	0.89-0.39								
VM4L(y)10533	105	347-480VAC	0.31-0.23		T4A	T4	-		EFG	-	
VM4L(y)105834	105	120-250VDC	0.88-0.42								
VM4L(y)13030	130	120-277 VAC	1.10-0.46								
VM4L(y)13033	130	347-480 VAC	0.38-0.27		T4A	T4	-		EFG	-	



HIGH WATTAGE – DIMENSIONS & WEIGHTS



For Height of VM2L models, deduct 1.56" (40mm) from VM4L tank, or overall dimensions with some mount and optic. All other dimensions are the same.

TYPICAL WEIGHTS (LBS.) W/STANDARD GLOBE AND GUARD - VM4LB/C SERIES			
Pendant 33.40	Ceiling 33.00	Wall 37.90	Stanchion 34.30

LIGHTING

EML SERIES



EXPLOSION-PROOF – INTRODUCTION & LOGIC



**Expanded wattage range RANGE
40W, 45W, and 50W**

**Class I, Div. 1 & 2, Groups C,D
Class I, Zones 1 & 2, Groups IIB, IIA
Class II, Div. 1 & 2, Groups E,F,G
Class III, Div. 1 & 2
Suitable for wet locations
Suitable for Paint Spray Booth
Marine Rated (US only)
NEMA 3, 4, 4X
Factory Sealed**

Certified - File LR11713

HOSTILELITE® LED

FEATURES-SPECIFICATIONS

Applications

HostileLite® EML LED Series fixtures are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water, snow or high ambients can be expected. They can be used in locations made hazardous due to the presence of flammable or explosive gases, vapors and combustible dusts as defined by the NEC.

Applications include classified areas such as paint manufacturing plants, ammunition facilities, oil and gas producing and refining plants, off-shore and dockside installations, tank farms, pipeline pumping stations and marine loading and fuel transfer terminals.

Compliances

- UL-8750 for LED lighting
- UL-844 Electric Lighting Fixtures for use in Hazardous Locations
- UL Marine Type Electric Lighting Fixtures
- CSA C22.2 no. 137-M1981 Electric Luminaires for use in Hazardous Locations
- NEMA 3, 4, 4X, 7CD, 9EFG

Materials

- Ballast tank, splice box and guards corrosion resistant copper-free aluminum alloy
- Baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- All external hardware – Stainless Steel
- Reflectors are aluminum with white finish

LED Luminaire Features and Standards

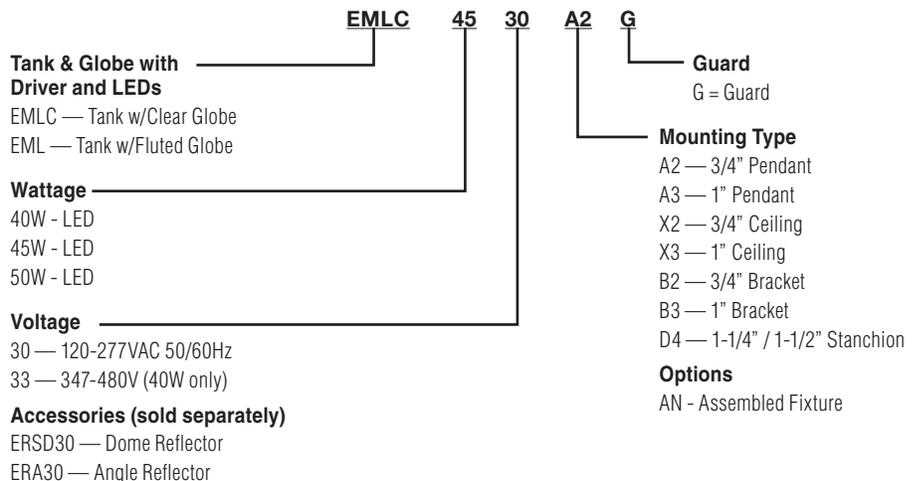
- Compact Explosion-proof with Traditional Industrial Appearance and Suitability
- Fluted or Exclusive Clear Globe; Dome or Angle Reflectors
- Surge Protection Standard
- Optional Mounting arrangements including Pendant, Wall, Ceiling, and Stanchion
- EML LED Housings can be retrofitted to existing EZ splice boxes; upgrade from Incandescent, Fluorescent or HID
- Energy Savings – Less than 55 Watts of Power
- Long Life – 50,000 - 55,000 Maintenance Free Hours to 70% Initial Lumens
- Crisp White Light for Excellent Color Rendering – Chromaticity 5000K (CCT range; approx. 70 CRI
- Ambient suitability -40°C to 55°C

- Instant on – Including after power interruption
- “World Voltage” 120-277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant
- Dual Drivers – Redundant Systems (built-in backup)
- LM80-08* Measurement of lumen maintenance for LED light sources
- LM79-08* Certified “Absolute” Photometry, including Chromaticity Color for Solid State Lighting
- L70 Values – Industry Nomenclature for Hours of use to 70% of Initial Lumens
- Factory Sealed Construction – No external seal required, simply wire mounting cap and thread-in fixture to install

Suitable for Paint Spray Booth Applications

* LM-xx are Illumination Engineering Society Standards designed to promote uniformity in testing procedures among test labs and manufacturers. For more information go to www.ies.org

Catalog Number Logic





EXPLOSION-PROOF – ORDERING INFORMATION



Pendant



Ceiling



Wall



Stanchion

ORDERING INFORMATION

EML SERIES PENDANT WITH OPTIC AND GUARD ①

WATTS	HUB SIZE②	VOLTAGE④	FLUTED GLOBE & GUARD	CLEAR GLOBE & GUARD*
40	3/4"	120-277VAC	EML4030A2G	EMLC4030A2G
45	3/4"	120-277VAC	EML4530A2G	EMLC4530A2G
50	3/4"	120-277VAC	EML5030A2G	EMLC5030A2G

EML SERIES CEILING WITH OPTIC AND GUARD ①

WATTS	HUB SIZE②	VOLTAGE④	FLUTED GLOBE & GUARD	CLEAR GLOBE & GUARD*
40	3/4"	120-277VAC	EML4030X2G	EMLC4030X2G
45	3/4"	120-277VAC	EML4530X2G	EMLC4530X2G
50	3/4"	120-277VAC	EML5030X2G	EMLC5030X2G

EML SERIES WALL WITH OPTIC AND GUARD ①

WATTS	HUB SIZE②	VOLTAGE④	FLUTED GLOBE & GUARD	CLEAR GLOBE & GUARD*
40	3/4"	120-277VAC	EML4030B2G	EMLC4030B2G
45	3/4"	120-277VAC	EML4530B2G	EMLC4530B2G
50	3/4"	120-277VAC	EML5030B2G	EMLC5030B2G

EML SERIES 25° STANCHION WITH OPTIC AND GUARD ①

WATTS	HUB SIZE③	VOLTAGE④	FLUTED GLOBE & GUARD	CLEAR GLOBE & GUARD*
40	1-1/4"/1-1/2"	120-277VAC	EML4030D4G	EMLC4030D4G
45	1-1/4"/1-1/2"	120-277VAC	EML4530D4G	EMLC4530D4G
50	1-1/4"/1-1/2"	120-277VAC	EML5030D4G	EMLC5030D4G

① Catalog numbers shown are with Guard; Omit G if guard not required e.g. EML4530A2.

② Catalog numbers shown are with 3/4" conduit openings; change "2" to "3" for 1" e.g. EML4530A3G.

③ Stanchion conduit hub size supplied is 1-1/2" with 1-1/2" to 1-1/4" reducer for 1-1/4" mounting (refer to catalog logic).

④ 120VAC through 277VAC 50/60Hz.

* Exclusive from KILLARK - clear globe for maximum brightness.

LIGHTING

EML SERIES



EXPLOSION-PROOF – COMPONENTS & RATINGS



EZ MOUNTING BRACKETS				
CATALOG NUMBER				HUB SIZE
PENDANT	CEILING	WALL	STANCHION	
EZA2	EZX2	EZB2	—	3/4"
EZA3	EZX3	EZB3	—	1"
—	—	—	EZD4*	1-1/4" / 1-1/2"*

* 1-1/2" furnished with 1-1/2" - 1-1/4" reducer

EML - EMLC LED ACCESSORIES	
DESCRIPTION	CATALOG NUMBER
Guard ^①	EMG2
Dome Reflector ^②	ERSD30
Angle Reflector ^②	ERA30
CIDI C2D1 N4X Photocell 120VAC	VMHKPC1
CIDI C2D1 N4X Photocell 208-277VAC	VMHKPC2
Replacement Fluted Globe & Support	EMGS3
Replacement Clear Globe & Support	EMGS2
Adapter to old Killark "H" Series or Crouse Hinds [®]	EAC/EACH ^③

- ① Guards are cast of copper-free aluminum with electrostatically applied epoxy/polyester.
- ② Reflectors are aluminum with white finish.
- ③ Adapters for discontinued Killark "H" Series and Crouse Hinds[®] available. See page L223 for more information.

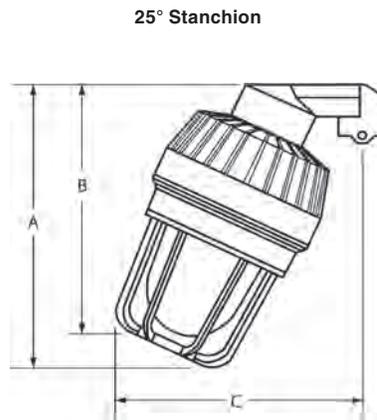
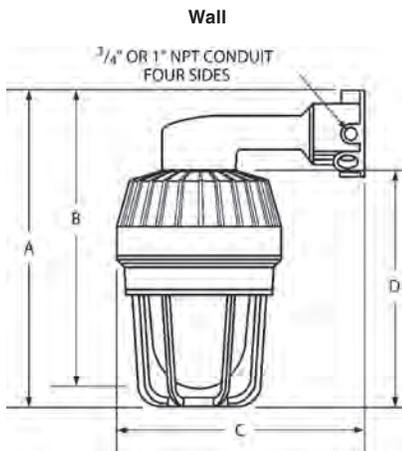
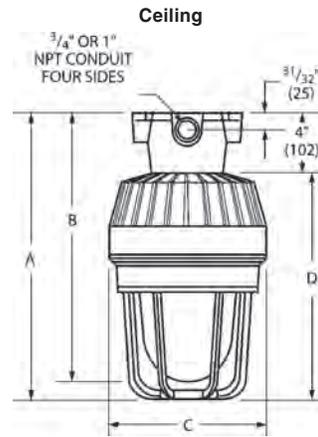
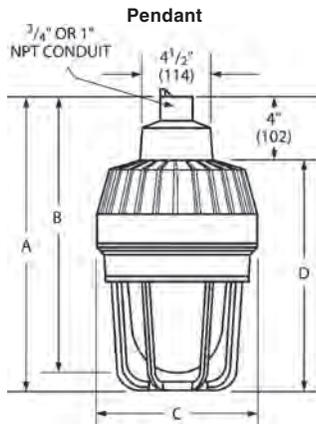
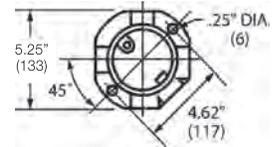
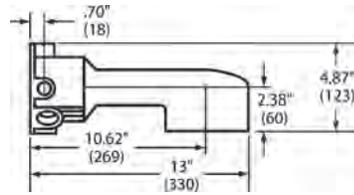
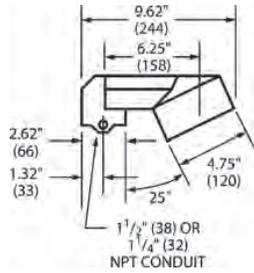
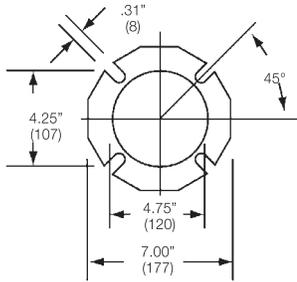


ORDERING INFORMATION AND AMBIENT SUITABILITY							C1D1/C1Z1		C2D1		L70	
CATALOG NO.	WEIGHT LBS./KG	WATTS	VOLTAGE	AMPS	EML FLUTTED LUMENS	EMLC CLEAR LUMENS	40°C	55°C	40°C	55°C	TM-21	CALCULATED
EML4030	26.00 / 11.79	40	120-277VAC	0.46-0.16	3479	3750	T6	T6	T4A (EFG)	T4 (EFG)	60100	270000
EML4033			347-480VAC	0.14-0.10								
EML4530		49	120-277VAC	0.41-0.18	2880	2930						
EML5030		50	120-277VAC	0.43-0.18	5740	5741						

③ TM-21 based values require very long duration testing. The TM-21/L70 "official reported" value is based on at least 10,000 hours testing (at time of printing) at 1000mA to 1500mA drive current, depending on LED chip utilized. "Reported L70" is a factor of test duration. KILLARK's VM4LC/B series utilizes lower 700mA maximum drive current - "calculated" values by the major chip vendors utilized predict L70 life up to 278,000 hours even at 1000mA.



EXPLOSION-PROOF – DIMENSIONS & WEIGHTS



EML(C) DIMENSIONS				
TYPE	A	B	C	D
PENDANT	15-15/16" (404)	15-1/16" (382)	8-13/16" (224)	11-15/16" (303)
CEILING	15-15/16" (404)	15-1/16" (382)	8-13/16" (224)	11-15/16" (303)
WALL	16-13/16" (426)	15-15/16" (404)	15" (379)	11-15/16" (303)
STANCHION	15-1/8" (384)	14" (356)	13-1/2" (343)	

TYPICAL WEIGHTS (LBS.) W/STANDARD GLOBE AND GUARD - EML (C) SERIES			
Pendant 29.33	Ceiling 31.79	Wall 33.25	Stanchion 30.94



LIGHTING

EXPLOSION-PROOF – INTRODUCTION & LOGIC



Class I, Div. 1 & 2, Groups C,D
Class I, Zones 1 & 2, Groups IIB, IIA
Class II, Div. 1 & 2, Groups E,F,G
Class III, Div. 1 & 2
Suitable for wet locations
Suitable for Paint Spray Booth
Marine Rated (US only)
NEMA 3, 4, 4X
Factory Sealed

Certified - File LR11713

FEATURES-SPECIFICATIONS

HOSTILELITE® LED

Applications

HOSTILELITE® EZL Series high wattage LED fixtures are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4x areas where wind, water, snow or where high ambient temperatures can be expected. They can be used in locations made hazardous due to the presence of flammable or explosive gases, vapors and combustible dusts as defined by the NEC.

Typical applications include classified areas such as paint manufacturing plants, paint spray, oil and gas producing and refining plants, off-shore and dockside installations, tank farms, pipeline pumping stations and marine loading and fuel transfer terminals.

Compliances

- UL-8750 for LED lighting
- UL-844 Electric Lighting Fixtures for use in Hazardous Locations
- UL Marine Type Electric Lighting Fixtures
- CSA C22.2 no. 137-M1981 Electric Luminaires for use in Hazardous Locations
- NEMA 3, 4, 4X, 7CD, 9EFG

Materials

- Ballast tank, splice box and guards corrosion resistant copper-free aluminum alloy
- Baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- All external hardware – Stainless Steel
- Reflectors are aluminum with white finish

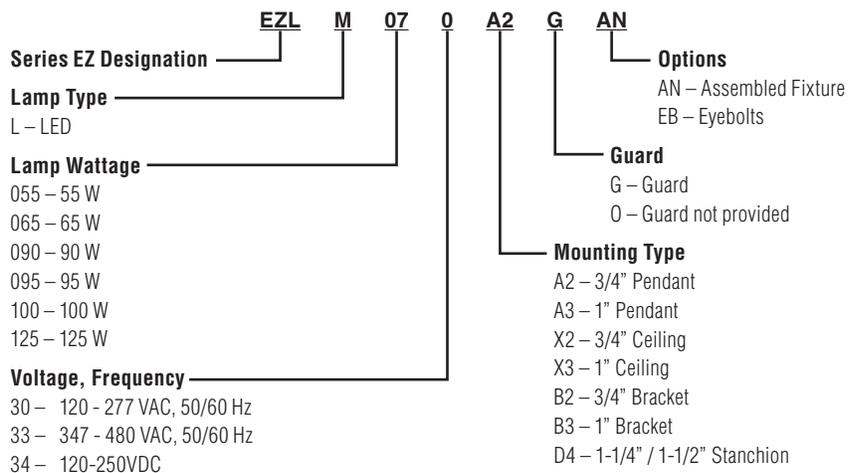
LED Luminaire Features and Standards

- Explosion-proof with Traditional Industrial Appearance and Suitability
- Dome
- Surge Protection Standard
- Mounting choice – Pendant, ceiling, 25° stanchion or 90° wall mount, all with “wireless” design that allows fast, easy fixture installation or removal for maintenance.
- Accessories – Available with or without guard, standard dome or angle reflector
- Optional Mounting arrangements including Pendant, Wall, Ceiling, and Stanchion
- EZL LED Housings can be retrofitted to existing EZ splice boxes; upgrade from Incandescent, Fluorescent or HID
- Energy Savings – Less than 130 Watts of Power

- Long Life – 50,000 - 55,000 Maintenance Free Hours to 70% Initial Lumens
- Crisp White Light for Excellent Color Rendering – Chromaticity 5000K (CCT range; approx. 70 CRI)
- Ambient suitability -40°C to 55°C
- Instant on – Including after power interruption
- “World Voltage” 120-277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant
- LM80-08* Measurement of lumen maintenance for LED light sources
- LM79-08* Certified “Absolute” Photometry, including Chromaticity Color for Solid State Lighting
- L70 Values – Industry Nomenclature for Hours of use to 70% of Initial Lumens
- Factory Sealed Construction – No external seal required, simply wire mouting cap and thread-in fixture to install

** LM-xx are Illumination Engineering Society Standards designed to promote uniformity in testing procedures among test labs and manufacturers. For more information go to www.ies.org*

Catalog Number Logic





EZL SERIES

KILLARK

EXPLOSION PROOF – ORDERING INFORMATION, COMPONENTS & RATINGS



EZL SERIES PENDANT WITH OPTIC AND GUARD			
WATTS	HUB SIZE	VOLTAGE	GLOBE & GUARD ^{①②}
65	3/4"	120-277VAC	EZL06530A2G
90	3/4"	120-277VAC	EZL09030A2G
95	3/4"	120-277VAC	EZL09530A2G
100	3/4"	120-277VAC	EZL10030A2G
125	3/4"	120-277VAC	EZL12530A2G



EZL SERIES CEILING WITH OPTIC AND GUARD			
WATTS	HUB SIZE	VOLTAGE	GLOBE & GUARD ^{①②}
65	3/4"	120-277VAC	EZL06530X2G
90	3/4"	120-277VAC	EZL09030X2G
95	3/4"	120-277VAC	EZL09530X2G
100	3/4"	120-277VAC	EZL10030X2G
125	3/4"	120-277VAC	EZL12530X2G

EZL SERIES WALL BRACKET WITH OPTIC AND GUARD			
WATTS	HUB SIZE	VOLTAGE	GLOBE & GUARD ^{①②}
65	3/4"	120-277VAC	EZL06530B2G
90	3/4"	120-277VAC	EZL09030B2G
95	3/4"	120-277VAC	EZL09530B2G
100	3/4"	120-277VAC	EZL10030B2G
125	3/4"	120-277VAC	EZL12530B2G



EZL SERIES STANCHION WITH OPTIC AND GUARD			
WATTS	HUB SIZE	VOLTAGE	GLOBE & GUARD ^{①③}
65	3/4"	120-277VAC	EZL06530D4G
90	3/4"	120-277VAC	EZL09030D4G
95	3/4"	120-277VAC	EZL09530D4G
100	3/4"	120-277VAC	EZL10030D4G
125	3/4"	120-277VAC	EZL12530D4G



① Catalog numbers shown are with Guard; Omit G if guard not required e.g. EZL05520A2.

② Catalog numbers shown are with 3/4" conduit openings; change "2" to "3" for 1" e.g. EZL05530A2G.

③ Stanchion conduit hub size supplied is 1-1/2" with 1-1/2" to 1-1/4" reducer for 1-1/4" mounting.

MOUNTING BOXES				
HUB SIZE	CATALOG NUMBER			
	PENDANT	CEILING	BRACKET	STANCHION
3/4"	EZA2	EXZ2**	EZB2	—
1"	EZA3	EXZ3	EZB3	—
1-1/4"/1-1/2"	—	—	—	EZD4*

* 1-1/2" furnished with 1-1/2" - 1-1/4" reducer



REFLECTORS	
CATALOG NUMBER	DESCRIPTION
VMPSD40	Standard dome. fiberglass reinforced polyester
VMPA40	30° Angle fiberglass reinforced polyester
HRD400	Deep dome. Aluminum with white finish ②
HRD400ALZ	Deep dome with specular anaodized finish ②



ORDERING INFORMATION AND AMBIENT SUITABILITY						C1D1/C1Z1		C2D1		L70	
CATALOG NO.	WEIGHT LBS./KG	WATTS	VOLTAGE	AMPS	LUMENS	40°C	55°C	40°C	55°C	TM-21	CALCULATED
EZL06530	36 / 16.33	65	120-277VAC	0.54/0.23	6515	T6	T6	EFG	EFG	60100	270000
EZL09030		90	120-277VAC	0.75/0.32	7818	T6	T6	EFG	EFG	60100	270000
EZL09530		95	120-277VAC	0.79/0.34	9121	T6	T6	EFG	EFG	60100	270000
EZL10030		100	120-277VAC	0.83/0.36	10903	T6	XXX	EFG	XXX	72600	278000
EZL12530		125	120-277VAC	1.04/0.45	12720	T6	XXX	EFG	XXX	72600	278000

② TM-21 based values require very long duration testing. The TM-21/L70 "official reported" value is based on at least 10,000 hours testing (at time of printing) at 1000mA to 1500mA drive current, depending on LED chip utilized. "Reported L70" is a factor of test duration. KILLARK's VM4LC/B series utilizes lower 700mA maximum drive current - "calculated" values by the major chip vendors utilized predict L70 life up to 278,000 hours even at 1000mA.

* For Dimensional Data reference page L159



LIGHTING

COMPACT FLOOD – INTRODUCTION & LOGIC



Class I, Div. 2, Groups A,B,C,D
 Class I, Zone 2, Groups IIC, IIB, IIA
 Class II, Div. 1 & 2, Groups E,F,G
 Class III
 NEMA 4X

File LR11713

PETROBRIGHT® LED

FEATURES-SPECIFICATIONS Applications

LED Compact Floods are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water, snow or high ambients can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC.

Typical applications include spot lighting or walkways in manufacturing plants, and certain chemical and petrochemical processing facilities, sewage treatment plants, off-shore and dockside installations, garages and storage facilities

Compliances

- UL-8750 for LED lighting
- ANSI/UL 1598 (A)
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 1; Class II, Division 1; Class III
- CSA C22.2 no. 137-M1981 electric luminaires for use in hazardous locations
- Enclosed and gasketed
- NEMA 3, 4X, IP66

Materials

- Body and lens frame corrosion resistant copper-free aluminum alloy with baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- All external hardware – stainless steel
- Thermal shock and impact resistant extra heavy-duty glass lens
- High temperature silicone gasketing
- Trunnion heavy gauge galvanized steel with painted finish

LED Flood Features and Standards

- One 3/4" NPT hub & R-21 3/4" x 1/2" reducer is standard
- Crisp White Light for Excellent Color Rendering – Chromaticity 5000 K (CCT); approx. 70 CRI
- Energy Savings – High lumens per watt
- Long Life – 100,000+ maintenance free hours to 70% initial lumens
- Ambient suitability -40°C to 55°C
- Instant On – Including after power interruption
- Solder-LESS LED Board Connections – Vibration Resistant
- LM80-08* Measurement of lumen maintenance for LED light sources
- LM79-08* Certified "Absolute" Photometry, including Chromaticity Color for Solid State Lighting
- L70 Values – Industry Nomenclature for Hours of use to 70% of initial Lumens – TM-21* & calculated

Patented Fixture Design



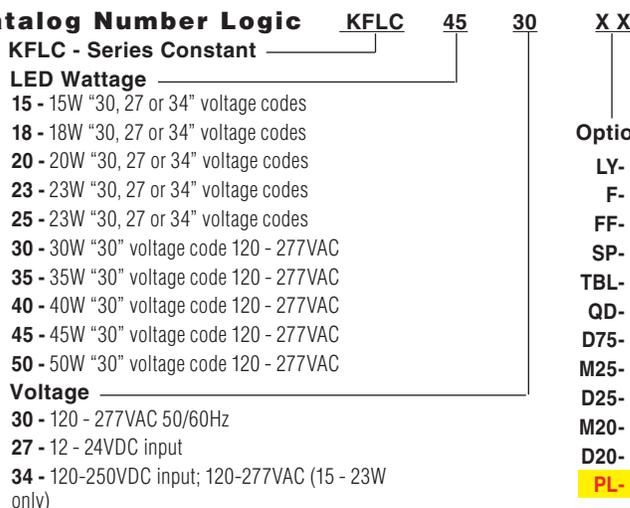
KFLC with KFS-6 Slipfitter mount on 2" pipe



Dark Sky Visor KFLC-DARK

* LM-xx & TM-xx are Illumination Engineering Society Standards designed to promote uniformity in testing procedures among test labs and manufacturers. For more information go to www.ies.org

Catalog Number Logic



Ⓢ Fusing not for Canadian Marine Installations

Options

- LY-** Less Yoke for Wall Mount
- F-** Single Fuse Ⓢ
- FF-** 2 Fuses Ⓢ
- SP-** Surge Protection
- TBL-** Terminal Blocks Looping
- QD-** QuickDisconnect
- D75-** Dual 3/4" threaded NPT entry
- M25-** Single M25 Slip-hole Entry
- D25-** Two M25 Slip-hole Entry
- M20-** Single M20 Slip-hole Entry
- D20-** Dual M20 Slip-hole Entry
- PL-** Polycarbonate Lens



COMPACT FLOOD – ORDERING & TECHNICAL DATA

ORDERING INFORMATION AND AMBIENT SUITABILITY						C1D2		C1D2		C2D1		L70	
CATALOG NO.	WEIGHT LBS./KG	WATTS	VOLTAGE	AMPS	LUMENS	40°C	55°C	40°C	55°C	40°C	55°C	TM-21	CALCULATED
KFLC1527	9.50 / 4.31	15	12-24VDC	1.3-0.6	1435	T6	T6	T4	T3B	T4A	T4A	60100	270000
KFLC1534		15	120-250VDC	0.2-0.1	1465	T6	T6	T4	T3B	T4A	T4A		
KFLC1827		18	12-24VDC	1.5-0.8	1830	T6	T6	T4	T3B	T4A	T4A	72600	278000
KFLC1834		18	120-250VDC	0.2-0.1	1830	T6	T6	T4	T3B	T4A	T4A		
KFLC2027		20	12-24VDC	1.7-0.8	2170	T6	T6	T4	T3B	T4A	T4A	60100	270000
KFLC2034		20	120-250VDC	0.2-0.1	2170	T6	T6	T4	T3B	T4A	T4A		
KFLC2327		23	12-24VDC	1.9-1.0	2550	T6	T6	T4	T3B	T4A	T4A	60100	270000
KFLC2334		23	120-250VDC	0.2-0.1	2550	T6	T6	T4	T3B	T4A	T4A	72600	278000
KFLC2527		25	12-24VDC	2.1-1.0	2667	T6	T6	T4	T3B	T4A	T4A	72600	278000
KFLC2534		25	120-250VDC	0.2-0.1	2667	T6	T6	T4	T3B	T4A	T4A	60100	270000
KFLC3030		30	120-277VAC	0.26-0.11	2662	T6	T6	T4	T3B	T4A	T4A	60100	270000
KFLC3530		35		0.30-0.13	3302	T6	T6	T4	T3B	T4A	T4A	60100	270000
KFLC4030		40		0.34-0.15	4039	T6	T6	T4	T3B	T4A	T4A	72600	278000
KFLC4530		45		0.38-0.17	4718	T6	T6	T4	T3B	T4A	T4A	72600	278000
KFLC5030		50		0.42-0.18	5353	T6	T6	T4	T3B	T4A	T4A	60300	190000
						T6	T6	T4	T3B	T4A	T4A	60300	190000

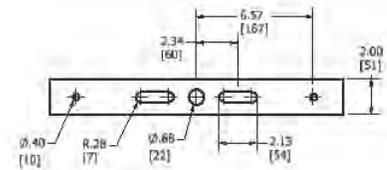
Extra high lumen per watt LED's

* KFLC 30-50w Lumens are LM-79 absolute photometry. 15-25W are calculated based on driver output current.

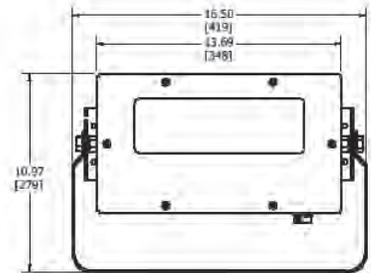
** All wattages are available as "30" voltage code 120-277VAC.

** TM-21 based values require very long duration testing. IES TM-21 "official reported" is based on at 8,000 to 10,000 hours of LED chip manufacturer's LM-80 Testing at printing.

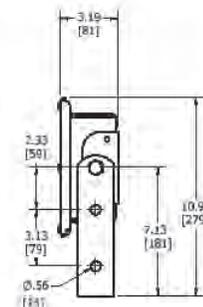
Dimensions



Trunnion Mounting Detail



Front



Side



KFL MOUNTS AND ACCESSORIES ①	
CATALOG NUMBER	DESCRIPTION
KFLC-DARK ②	Reflector for field addition - No uplight at 45° to 70°
KFLCG	Guard
KFLC-DOOR ②	Replacement Door Assembly
NWP-HUBA	3/4" Aluminum Hub; Replacement or Additional (Max. 4)
VMSC10 ③	Safety Cable (through yoke)
KFS-6	Steel Slipfitter for 2" Pipe (2-3/8" o.d.) Tenon. Slips 3.75" Over Pipe.
KFCB	Heavy Duty Cast-Iron Crossarm Fitting for Horizontal Trunnion
KFWB	Heavy Duty Wall Mount and/or Pipe Clamp Fitting Clamps 2" Pipe (2-3/8" o.d.) Through 2-1/2" Pipe (2-7/8" o.d.)
K4040	Heavy Duty Steel Wall Bracket. (Must be with KFCB Crossarm Fitting).
4041	Heavy Duty Steel Wall Bracket 2" Pipe (2-3/8" o.d.) Tenon Fitting.

① Fittings available to adapt trunnion mount floodlights to crossarms, poles and walls. Must be ordered separately.

② Drop limit 1'. Attaches to luminaire cable provision and to mounting structure.

③ Designed to eliminate uplight when aimed at 70°.



Harsh & Hazardous

KILLARK

KFL Series LED TECHNOLOGY

*for Harsh and Hazardous
Environments*



- IECEx/ATEX Approved
- From 60W to 195W Output
- Up to 124 Lumens per Watt
- Ambient Sustainability -50°C to 55°C
- Long Life 190,000 Maintenance Free Hours
- Crisp White 5000 Kelvin Light (Noon Sunlight)
- Thermal Shock and Impact Resistant Glass Lens



HSI=GREEN
HUBBELL SUSTAINABILITY INITIATIVE



LIGHTING

KFL SERIES



C1D2 FLOOD – INTRODUCTION & LOGIC



Class I, Div. 2, Groups A,B,C,D
 Class II, Div. 1&2, Groups EFG
 Class III
 Suitable for wet locations
 Marine Rated (US Only)
 NEMA 3, 4X
 IP66

CS US File LR11713

IEC Ex Rated model (w/IEX suffix)
 Zone 2 and Zone 21 areas
 Ex nA IIC T6...T3, Gc
 Ex tb IIIC T160°C Db
 Tamb -50°C <Ta<+55°C, IP66
 IECEx Certificate CSA 14.0002X
 ATEX CML 14ATEX3087/4088

PETROBRIGHT® LED

FEATURES-SPECIFICATIONS

Applications

LED Floods are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water, snow or high ambients can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC.

Typical applications include manufacturing plants, and certain chemical and petrochemical processing facilities, sewage treatment plants, off-shore and dockside installations, garages and storage facilities.

Compliances

- UL-8750 for LED lighting
- ANSI/UL 1598(A)
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 2; Class II, Divisions 1 and 2; Class III
- CSA C22.2 no. 137-M1981 electric luminaires for use in hazardous locations
- Enclosed and gasketed
- NEMA 3, 4X
- IP66
- IEX suffix Zone 2/21 to IEC 60079-0, 60079-15, 60079-31 Standards

Materials

- Body, end caps and lens frame corrosion resistant copper-free aluminum alloy with baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- All external hardware - stainless steel
- Thermal shock and impact resistant glass lens
- High temperature silicone gasketing
- Trunnion heavy gauge galvanized steel with painted finish

LED Flood Features and Standards

- Crisp White Light for Excellent Color Rendering - Chromaticity 5000K (CCT); approx. 70 CRI
- Energy Savings - High lumens per watt
- Long Life - to 100,000+ maintenance free hours to 70% initial lumens
- Ambient suitability -50°C to 55°C up to 125W@
- Instant On - Including after power interruption
- World Voltage 120 - 277VAC 50/60Hz
- Solder-LESS LED Board Connections - Vibration Resistant
- LM80-08* Measurement of lumen maintenance for LED light sources
- LM79-08* Certified "Absolute" Photometry, including Chromaticity Color for Solid State Lighting
- L70 Values - Industry Nomenclature for Hours of use to 70% of initial Lumens - TM-21* & Calculated

Supplemental surge protection included as standard for AC models only

PATENTED LUMINAIRE DESIGN



KFL with KFS-6 Slipfitter mount on 2" pipe

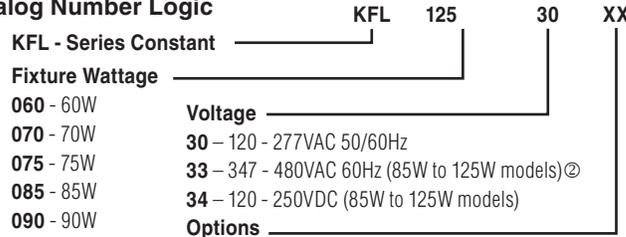


Dark Sky Visor KFL-DARK

* LM-xx & TM-xx are Illumination Engineering Society Standards designed to promote uniformity in testing procedures among test labs and manufacturers. For more information go to www.ies.org

IEX Units include Qty. 3 6mm terminals plus external ground as standard

Catalog Number Logic



PL - Polycarbonate Lens

- F - Single FuseⓄ
- FF - Double FuseⓄ
- TBL - Terminal Blocks **Looping** (Std. w/IEX)
- P1 - 120V Photocell, factory installed
- P2 - 208V-277V Photocell, factory installed
- P3 - 347V Photocell, factory installed
- QD - Quick Disconnect
- D20 - 2x M20 entries
- D25 - 2x M25 entries
- D75 - 2 x 3/4" NPT
- SY - 316 SS Yoke
- IEX - IECEx & ATEX includes TBL and External Ground (to 125W)

Construction Note:
 Models with dual metric entries are tapped with one plugged and the standard 3/4" NPT entry will be plugged.

Ⓞ Fusing not for Canadian or Marine Installations

Ⓞ 347V-480V +40°C Max



Consult website for current list of approved luminaires



C1D2 FLOOD – ORDERING INFORMATION & TECHNICAL DATA

ORDERING INFORMATION AND AMBIENT SUITABILITY						C1D2 ^④		C1D2 ^④ SIMULTANEOUS		C2D1 ^④		IEC ZONE 2 ^④		IEC ZONE 21 ^⑤		L70		
CATALOG NO. ^①	WEIGHT LBS./KG	WATTS	VOLTAGE	AMPS ^{①②}	LUMENS ^③	40°C	55°C	40°C	55°C	40°C	55°C	40°C	55°C	40°C	55°C	TM-21	CALCULATED	
KFL06030	30.00 / 13.61	60	120-277VAC	0.50-0.20	6111	T6	T5	T3C	T3C	T3C (EFG)	T3C (EFG)	T6	T5	145-70	160-85	60100	270000	
KFL07030		70	120-277VAC	0.60-0.30	9742	T6	T5	T3C	T3C	T3C (EFG)	T3C (EFG)	T6	T5	145-70	160-85	72600	278000	
KFL07530		75	120-277VAC	0.60-0.30	7454	T6	T5	T3C	T3C	T3C (EFG)	T3C (EFG)	T6	T5	145-70	160-85	60100	270000	
KFL08530		85	120-277VAC	0.70-0.30	10840	T6	T5	T3C	T3C	T3C (EFG)	T3C (EFG)	T6	T5	145-70	160-85	72600	278000	
KFL08533			347-480VAC	0.24-0.17														
KFL08534			120-250VDC	0.70-0.27														
KFL09030		90	120-277VAC	0.80-0.40	9023	T6	T5	T3C	T3C	T3C (EFG)	T3C (EFG)	T6	T5	145-70	160-85	60100	270000	
KFL09033			347-480VAC	0.28-0.23														
KFL09034			120-250VDC	0.80-0.36														
KFL10530		105	120-277VAC	0.90-0.40	10370	T4A	T4A	T3C	T3C	T3C (EFG)	T3C (EFG)	T4	T4	145-70	160-85	60100	270000	
KFL10533			347-480VAC	0.31-0.23														
KFL10534		120-250VDC	0.90-0.36															
KFL11030		110	120-277VAC	0.90-0.40	13780	T6	T5	T3C	T3C	T3C (EFG)	T3C (EFG)	T6	T5	145-70	160-85	72600	278000	
KFL11033			347-480VAC	0.31-0.23														
KFL11034			120-250VDC	0.90-0.36														
KFL12530		125	120-277VAC	1.00-0.50	15340	T6	T5	T3C	T3C	T3C (EFG)	T3C (EFG)	T6	T5	145-70	160-85	72600	278000	
KFL12533			347-480VAC	0.35-0.29														
KFL12534			120-250VDC	1.00-0.45														
KFL15030		150	120-277VAC	1.25-0.54	18550	T5	-	T3C	-	T3C (EFG)	-	-	-	-	-	-	60300	190000
KFL16530		165	120-277VAC	1.38-0.60	19220	T5	-	T3C	-	T3C (EFG)	-	-	-	-	-	-	72600	278000
KFL19530	195	120-277VAC	1.63-0.70	21940	T5	-	T3C	-	T3C (EFG)	-	-	-	-	-	-	72600	278000	

① Cat. nos. are 120-277VAC models, see logic for 347-480V.

② Amperage measured at 120VAC; 277VAC calculated

③ Extra high Lumens per Watt LED models

④ Use 75° minimum Supply Wire @40°C Ambient; 90 @55°C Ambient

⑤ First number is lens temperature under 25mm layer of dust; Second number is lens temp. for dust cloud.



KFL MOUNTS AND ACCESSORIES ^①	
CATALOG NUMBER	DESCRIPTION
KFS-6	Steel Slipfitter for 2" Pipe (2-3/8" o.d.) Tenon. Slips 3.75" Over Pipe.
KFCB	Heavy Duty Cast-Iron Crossarm Fitting for Horizontal Trunnion
KFWB	Heavy Duty Wall Mount and/or Pipe Clamp Fitting Clamps 2" Pipe (2-3/8" o.d.) Through 2-1/2" Pipe (2-7/8" o.d.)
K4040	Heavy Duty Steel Wall Bracket. (Must be with KFCB Crossarm Fitting).
4041	Heavy Duty Steel Wall Bracket 2" Pipe (2-3/8" o.d.) Tenon Fitting. Uses with KFS-6.
KFLG ^⑥	Wire Guard, 316 Stainless Steel (not used with KFL-DARK)
VMSC10 ^⑦	10' Stainless Steel Safety Cable with loop grip
KFL-DARK ^⑧	Dark Sky Visor, White Painted Aluminum (not used with KFLG)
KFL-DOOR	Replacement Door and Lens Assembly (for units w/o internal reflectors)
KFL-DOOR2 ^{④⑤}	Replacement Internal Reflector and Lens Assembly

① Fittings available to adapt trunnion mount floodlights to crossarms, poles and walls. Must be ordered separately.

② Drop limit 1'. Attaches to luminaire cable provision and to mounting structure.

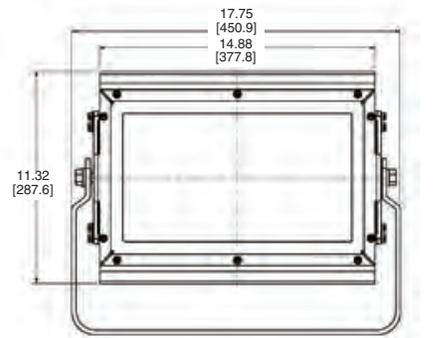
③ Designed to eliminate uplight when aimed at 45°.

④ Only for models factory supplied with internal reflector.

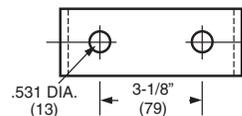
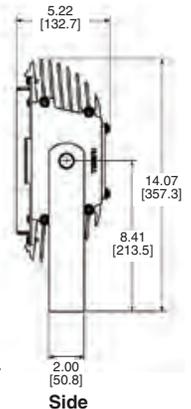
⑤ Not backward compatible with units originally shipped without internal reflector.

⑥ KFLG and KFL-DARK cannot be used together.

Dimensions



Front



Trunnion Mounting Detail

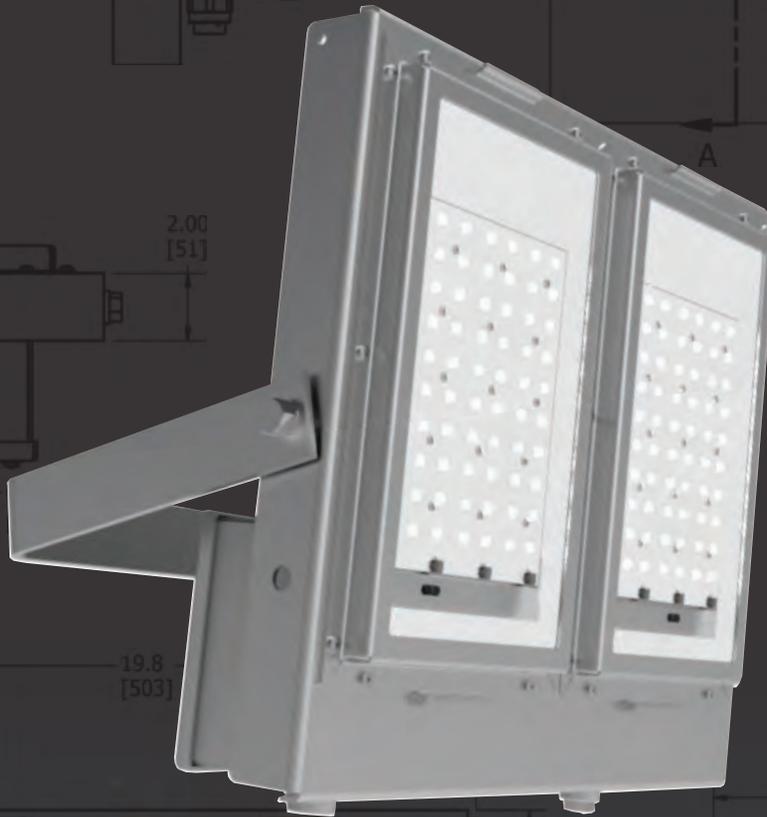


Harsh & Hazardous

KILLARK[®]

KFLH Series LED TECHNOLOGY

for Harsh and Hazardous Environments



- Up to 124 Lumens per Watt
- From 170W to 390W Output
- Ambient Sustainability -50°C to 55°C
- Crisp White 5000 Kelvin Light (Noon Sunlight)
- Thermal Shock and Impact Resistant Glass Lens
- Long Life LED array to 278,000 Maintenance Free Hours



HSI=GREEN
HUBBELL SUSTAINABILITY INITIATIVE

LIGHTING

KFLH SERIES



C1D2 FLOOD – INTRODUCTION & LOGIC



PETROBRIGHT® LED



Class I, Div. 2, Groups A, B, C, D
 Class I, Zone 2, IIC, IIB, IIA
 Class II, Div. 1 & 2, Groups E, F, G
 Class III
 Suitable for wet locations
 Marine Rated (US only)
 NEMA 3, 4X
 IP66

IEC Ex Rated Model (w/ IEX suffix)
 Zone 2 and Zone 21 areas
 Ex nA IIC T6...T3, Gc
 Ex tb IIC T105°C Db
 Tamb -50°C ≤ Ta ≤ +55°C, IP66
 IECEx Certificate
 QPS 15.0011
 ATEX Certificate
 CML 15ATEX4079X (nA)
 & CML 15ATEX3080X (tb)



FEATURES-SPECIFICATIONS

Applications

LED Floods are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water, snow or high ambients can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC.

Typical applications include manufacturing plants, and certain chemical and petrochemical processing facilities, sewage treatment plants, off-shore and dockside installations, garages and storage facilities.

Compliances

- UL-8750 for LED lighting
- ANSI/UL 1598(A)
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 2; Class II, Divisions 1 and 2; Class III
- CSA C22.2 no. 137-M1981 electric luminaires for use in hazardous locations
- Enclosed and gasketed
- NEMA 3, 4X
- IP66

Materials

- Body and lens frame corrosion resistant copper-free aluminum alloy with baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- All external hardware – stainless steel
- Thermal shock and impact resistant glass lens (Polycarbonate available)
- High temperature silicone gasketing
- Trunnion heavy gauge 316 stainless steel

LED Flood Features and Standards

- Crisp White Light for Excellent Color Rendering – Chromaticity 5000K (CCT); approx. 70 CRI
- Energy Savings – High lumens per watt
- Long Life – to 100,000+ maintenance free hours to 70% initial lumens
- Ambient suitability -40°C to 55°C up to 250WⓉ to -50°C for non-hazardous applications
- Instant On – Including after power interruption
- World Voltage 120 – 277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant
- LM80-08* Measurement of lumen maintenance for LED light sources
- LM79-08* Certified “Absolute” Photometry, including Chromaticity Color for Solid State Lighting
- L70 Values – Industry Nomenclature for Hours of use to 70% of initial Lumens – TM-21* & Calculated

PATENTED LENS and REFLECTOR DESIGN



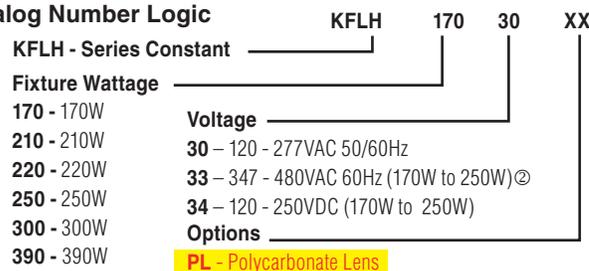
KFLH Luminaire

Dark Sky Visor KFLH-DARK

* LM-xx & TM-xx are Illumination Engineering Society Standards designed to promote uniformity in testing procedures among test labs and manufacturers. For more information go to www.ies.org

Supplemental surge protection included as standard for AC models only

Catalog Number Logic



- F - Single FuseⓉ
- FF - Double FuseⓉ
- TBL - Terminal Blocks **Looping**
- P1 - 120V Photocell, factory installed
- P2 - 208V-277V Photocell, factory installed
- P3 - 347V Photocell, factory installed
- QD - Quick Disconnect
- D20 - 2x M20 entries
- IEX - IEXEx includes TBL & External ground

Construction Note:
 Standard with two 3/4" NPT entries with one plugged
 Models for dual metric entries have slip holes with metric locknuts and certified blanking plugs

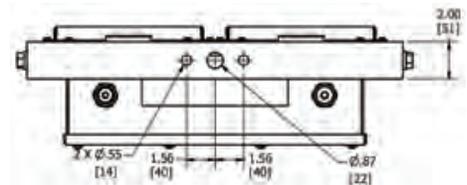
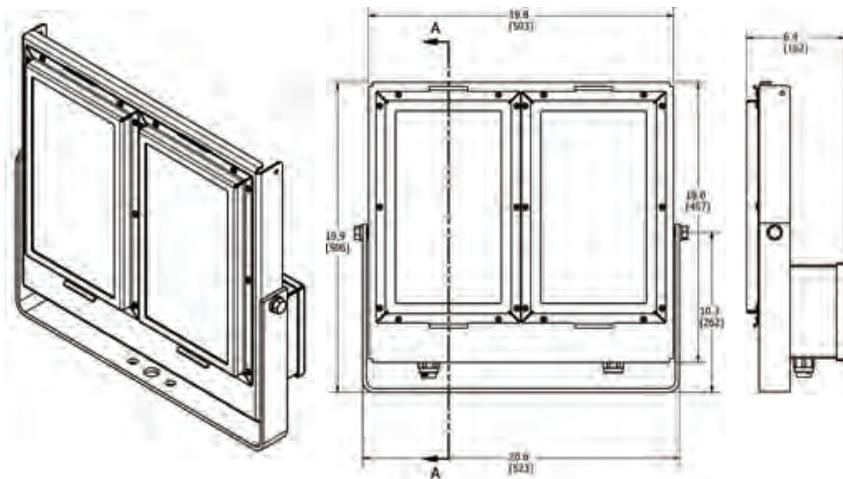
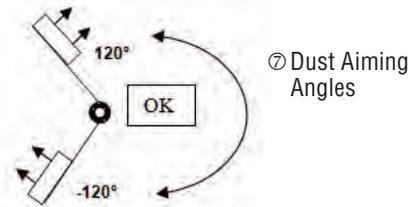
Ⓣ Fusing not for Canadian or Marine Installations
 Ⓣ 347V-480V +40°C Max



C1D2 FLOOD – ORDERING INFORMATION & TECHNICAL DATA

ORDERING INFORMATION AND AMBIENT SUITABILITY						C1D2 (C1Z2)		C1D2 SIMULTANEOUS		C2D1		L70		
CATALOG NO.	WEIGHT LBS./KG	WATTS	VOLTAGE	AMPS	LUMENS	40°C	55°C	40°C	55°C	40°C	55°C	TM-21	CALCULATED	
KFLH17030	25.00 / 11.3	170	120-277VAC	1.46-0.63	21620	T4A (T4)	T4	T4	T3C	T4	T3C	72600	278000	
KFLH17033			347-480VAC	0.51-0.36										
KFLH17034			120-250VDC	1.46-0.56										
KFLH21030		210	210	120-277VAC	1.75-0.75	21220	T4A (T4)	T4	T4	T3C	T4	T3C	60100	270000
KFLH21033				347-480VAC	0.61-0.43									
KFLH21034				120-250VDC	1.75-0.68									
KFLH22030		220	220	120-277VAC	1.88-0.81	26970	T4A (T4)	T4	T4	T3C	T4	T3C	72600	278000
KFLH22033				347-480VAC	0.65-0.47									
KFLH22034				120-250VDC	1.88-0.73									
KFLH25030		250	250	120-277VAC	2.17-0.94	30950	T4A (T4)	T4	T4	T3C	T4	T3C	72600	278000
KFLH25033				347-480VAC	0.75-0.54									
KFLH25034				120-250VDC	2.17-0.85									
KFLH30030	300	300	120-277VAC	2.48-1.07	37030	T4A (T4)	T4	-	-	-	-	60300	107000	
KFLH39030	390	390	120-277VAC	3.30-1.43	40410	T4A (T4)	T4	-	-	-	-	60300	190000	

- ① Cat. Nos. are 120 through 277VAC 50/60Hz; see logic for 347-480V or 125-250VDC input
- ② Amperage measured at 120VAC; 277VAC calculated
- ③ Extra High Lumens per Watt LED Models
- ④ Use 75°C Supply Wire @ 40°C Ambient; 90°C Wire @ 55°C Ambient
- ⑤ 55°C only for 170W through 250W at 120-277VAC 50/60Hz or 125-250VDC; not 480VAC
- ⑥ For Dust Applications, limit aiming angle between 120° and -120° to minimize buildup - see figure at right
- ⑦ L70 is time in hours to 70% of initial lumens remaining. TM-21 based values require very long duration testing and is denoted "official reported" and is based on at least 6,000 minimum, to 12,000 hours testing (at time of printing). "Calculated" values by the major chip vendors utilized predict L70 life up to 278,000 hours.



KFLH MOUNTS AND ACCESSORIES ①	
CATALOG NUMBER	DESCRIPTION
KFS-6	Steel Slipfitter for 2" Pipe (2-3/8" o.d.) Tenon. Slips 3.75" Over Pipe.
KFCB	Heavy Duty Cast-Iron Crossarm Fitting for Horizontal Trunnion
KFWB	Heavy Duty Wall Mount and/or Pipe Clamp Fitting Clamps 2" Pipe (2-3/8" o.d.) Through 2-1/2" Pipe (2-7/8" o.d.)
K4040	Heavy Duty Steel Wall Bracket. (Must be with KFCB Crossarm Fitting).
4041	Heavy Duty Steel Wall Bracket 2" Pipe (2-3/8" o.d.) Tenon Fitting. Use with KFS-6.
KFLG	Wire Guard, 316 Stainless Steel (order 2 per fixture)
VMSC10 ②	10' Stainless Steel Safety Cable with loop grip
KFLH-DARK ③	Dark Sky Visor, White Painted Aluminum
KFLH-DOOR	Replacement Internal Reflector and Lens Assembly (order 2 per fixture as required)

- ① Fittings available to adapt trunnion mount floodlights to crossarms, poles and walls. Must be ordered separately.
- ② Drop limit 1'. Attaches to luminaire cable provision and to mounting structure.
- ③ Designed to eliminate uplight when aimed at 45°.



LIGHTING

KF1L SERIES



C1D1 FLOOD – INTRODUCTION & LOGIC



Class I, Div. 1&2, Groups B,C,D
Class I, Zone 1&2, Groups IIB+H2, IIA
Class II, Div. 1&2, Groups EFG, Class III
Enclosure Type 4X, IP66 (-50°C to +55°C)

File LR11713

IEC Ex Rated model (w/IEX or IEX4B suffix) Zone 1, Zone 21
 Ex de IIB+H2 T6..T5, Gb, IP66
 Tamb -20°C ≤ Ta ≤ +55°C; Option LT for -50°C ≤ Ta ≤ +55°C
 Ex de IIB T6..T5, Gb, -50°C ≤ Ta ≤ +55°C
 Ex tb IIIC T90°C Db, -50°C ≤ Ta ≤ +55°C
 Certificate IECEx CSA 14.0010
 ATEX Certificate SIRA14ATEX1159X

PETROBRIGHT® LED

FEATURES-SPECIFICATIONS

Applications

LED KF1L Series Explosion-proof Floods are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water, snow or high ambients can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC.

Typical applications include manufacturing plants, and certain chemical and petrochemical processing facilities, sewage treatment plants, off-shore and dockside installations, garages and storage facilities

Compliances

- UL-8750 for LED lighting
- ANSI/UL 1598A
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 1; Class II, Division 1; Class III
- CSA C22.2 no. 137-M1981 electric luminaires for use in hazardous locations
- IEX or IEX4B suffix for Zone 1 and Zone 21 to IEC 60079-0,60079-1,60079-31, 60079-7 Standards
- Enclosed and gasketed
- NEMA 3, 4X
- IP66

Materials

- Body, end caps and lens frame corrosion resistant copper-free aluminum alloy with baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- All external hardware - stainless steel
- Thermal shock and impact resistant extra heavy-duty glass lens
- High temperature silicone gasketing
- Trunnion heavy gauge 316 SS

LED Flood Features and Standards

- **Factory Sealed Construction**
- One 3/4" NPT & one M20 entry standard (see logic for other choices)
- **Supplemental surge protection (AC models 120-277VAC only) and looping terminals are standard**
- Crisp White Light for Excellent Color Rendering – Chromaticity 5000 K (CCT); approx. 70 CRI
- Energy Savings – High lumens per watt
- Long Life – 100,000+ maintenance free hours to 70% initial lumens
- Instant On – Including after power interruption
- World Voltage 120 – 277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant
- LM80-08* Measurement of lumen maintenance for LED light sources
- LM79-08* Certified "Absolute" Photometry, including Chromaticity Color for Solid State Lighting
- L70 Values – Industry Nomenclature for Hours of use to 70% of initial Lumens – TM-21* & calculated

Patent Pending Fixture Design



KF1L with KFS-6 Slipfitter mount on 2" pipe



Dark Sky Visor KF1L-DARK

Suitable for Paint Spray

* LM-xx & TM-xx are Illumination Engineering Society Standards designed to promote uniformity in testing procedures among test labs and manufacturers. For more information go to www.ies.org

Catalog Number Logic

	KF1L	125	30	XX
KF1L - Series Constant	_____			
Fixture Wattage	_____			
090 - 90W	150 - 150W			
105 - 105W	165 - 165W			
110 - 110W	195 - 195W			
125 - 125W				
Voltage	_____			
30 - 120 - 277VAC 50/60Hz				
33 - 347 - 480VAC 60Hz (90W-125W)				
34 - 120-250VDC (90W-125W)				
Options	_____			
IEX4B - Four bolt termination cover (see Note 1)				
LT - For -50°C to +55°C, IEC Zone 1 (see Note 1)				
F - Single Fuse				
FF - Double Fuse				
D20 - Dual M-20 Entries				
D25 - Dual M-25 Entries				
D75 - Dual 3/4" NPT				

① Construction/Certification
 Notes: KF1L units are standard with one 3/4" NPT hub & one M20 hub – both plugged, with an 8-bolt factory sealed termination chamber, suitable for CID1 BCD -50°C to +55°C and IEC Zone 1 Ex de suitable for -20°C to 55°C.

Use option LT for models needing IEC Zone 1, -50°C to +55°C suitability for hydrogen.

Option IEX4B utilizes 4 terminal cover bolts for Ex de and maintains all ratings EXCEPT CID1 BCD.

See logic for other entry options

© Fusing not for Canadian or Marine Installations



C1D1 FLOOD – ORDERING & TECHNICAL DATA

ORDERING INFORMATION AND AMBIENT SUITABILITY						C1D1		C2D1		IEC ZONE 1		IEC ZONE 21		L70	
CATALOG NO.	WEIGHT LBS./KG	WATTS	VOLTAGE	AMPS	LUMENS	40°C	55°C	40°C	55°C	40°C	55°C	40°C	55°C	TM-21	CALCULATED
KF1L09030	46.00 / 20.87	90	120-277VAC	0.72-0.31	7182	T6	T6	(EFG)	Ⓢ	T6	T5	160-75	175-90	60100	270000
KF1L09033			347-480VAC	0.25-0.18											
KF1L09034			120-250VDC	0.72-0.28											
KF1L10530		105	120-277VAC	0.85-0.37	8362	T6	T6	(EFG)	Ⓢ	T6	T5	160-76	175-91	60100	270000
KF1L10533			347-480VAC	0.29-0.21											
KF1L10534			120-250VDC	0.85-0.33											
KF1L11030		110	120-277VAC	0.95-0.41	10590	T6	T6	(EFG)	Ⓢ	T6	T5	160-77	175-92	72600	278000
KF1L11033			347-480VAC	0.33-0.24											
KF1L11034			120-250VDC	0.95-0.37											
KF1L12530		125	120-277VAC	1.10-0.48	11590	T6	T6	(EFG)	Ⓢ	T6	T5	160-78	175-93	72600	278000
KF1L12533			347-480VAC	0.38-0.28											
KF1L12534			120-250VDC	1.10-0.43											
KF1L15030		150	120-277VAC	1.25-0.54	13280	T5	-	-	-	-	T5	-	-	60300	190000
KF1L16530		165	120-277VAC	1.38-0.60	13760	T5	-	-	-	-	T5	-	-	72600	278000
KF1L19530		195	120-277VAC	1.63-0.70	15707	T5	-	-	-	-	T5	-	-	72600	278000

Ⓢ Yellow highlighted models have extra high lumen LED's.

Ⓣ See logic for 347-480V availability

Ⓤ Amperage measured at 120VAC; 277VAC calculated

Ⓦ Use minimum 75° Supply Wire @40°C Ambient; 90°@55°C Ambient

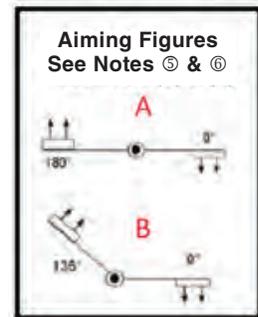
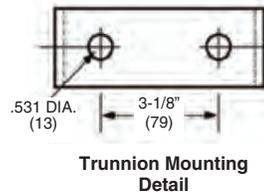
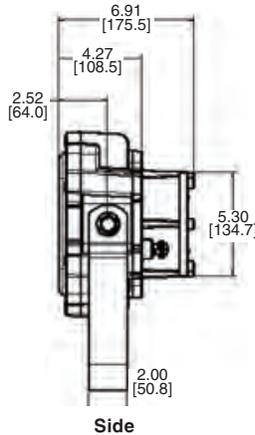
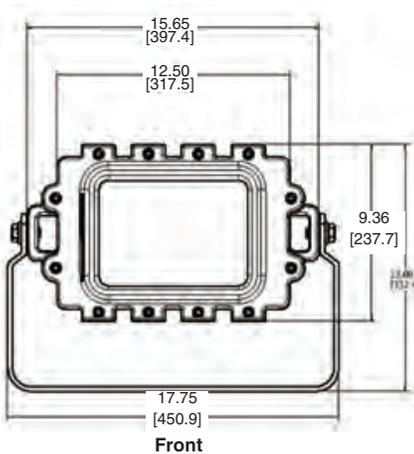
Ⓧ CID1 40°/55° & C2D1 40°C use Aiming Figure "A" below.

Ⓨ 55°C C2D1 EFG T3C Aiming Figure "B", 55° C2D1 EF T3A Aiming Figure "A"

Ⓩ First number is lens temperature under 25mm layer of dust; Second number is lens temp for dust cloud.

** TM-21 based values require very long duration testing. IES TM-21 "official reported" is based on at 8,000 to 10,000 hours of LED chip manufacturer's LM-80 Testing at printing.

Dimensions



KFL MOUNTS AND ACCESSORIES [Ⓛ]	
CATALOG NUMBER	DESCRIPTION
KFS-6	Steel Slipfitter for 2" Pipe (2-3/8" o.d.) Tenon. Slips 3.75" Over Pipe.
KFCB	Heavy Duty Cast-Iron Crossarm Fitting for Horizontal Trunnion
KFWB	Heavy Duty Wall Mount and/or Pipe Clamp Fitting Clamps 2" Pipe (2-3/8" o.d.) Through 2-1/2" Pipe (2-7/8" o.d.)
K4040	Heavy Duty Steel Wall Bracket. (Must be with KFCB Crossarm Fitting).
4041	Heavy Duty Steel Wall Bracket 2" Pipe (2-3/8" o.d.) Tenon Fitting.
KFLG	Wire Guard, 316 Stainless Steel
VMSC10	10' Stainless Steel Safety Cable with loop grip [Ⓜ]
KF1L-DARK	Dark Sky Visor, White Painted Aluminum [Ⓨ]
KF1L-DOOR	Replacement Door and Lens Assembly

Ⓛ Fittings available to adapt trunnion mount floodlights to crossarms, poles and walls. Must be ordered separately.

Ⓜ Drop limit 1'. Attaches to luminaire cable provision and to mounting structure.

Ⓨ Designed to eliminate uplight when aimed at 45°.



KFS-6 Slipfitter



KFCB Cross Arm Mount



KFWB Wall/Pipe Bracket



K4040 Wall Bracket



4041 Tenon Fitting



LIGHTING

C1D2 FLOOD – INTRODUCTION & LOGIC



Class I, Div. 2, Groups A,B,C,D
 Class II, Div. 1&2, Groups EFG
 Class III
 Suitable for wet locations
 Marine Rated (US Only)
 NEMA 3, 4X
 IP66

File LR11713

IEC Ex Rated model (w/IEX suffix)
 Zone 2 and Zone 21 areas
 Ex nA IIC T6 to T3, Gc
 Ex tb IIIC T160°C Db
 Tamb -50°C ≤ Ta ≤ +55°C, IP66
 IECEx Certificate
 CSA 14.0002X
 ATEX Certificate
 CML 14ATEX3087/4088

FEATURES-SPECIFICATIONS

Applications

LED Portable Floods are designed for temporary applications where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water, snow or high ambients can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC.

Typical applications include manufacturing plants, and certain chemical and petrochemical processing facilities, sewage treatment plants, off-shore and dockside installations, garages and storage facilities.

Compliances

- UL-8750 for LED lighting
- ANSI/UL 1598(A)
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 2; Class II, Divisions 1 and 2; Class III
- CSA C22.2 no. 137-M1981 electric luminaires for use in hazardous locations
- Enclosed and gasketed
- NEMA 3, 4X, IP66
- IEX suffix Zone 2/21 to IEC 60079-0, 60079-15, 60079-31 Standards

Materials

- Body, end caps and lens frame and base corrosion resistant copper-free aluminum alloy with baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- All external hardware - stainless steel
- High temperature silicone gasketing
- Trunnion heavy gauge galvanized steel with painted finish
- Stand and handle epoxy pound coat
- Polycarbonate Lens
- Stainless steel wire guard

LED Flood Features and Standards

- Crisp White Light for Excellent Color Rendering - Chromaticity 5000K (CCT); approx. 70 CRI
- Energy Savings - High lumens per watt
- Long Life - to 150,000 maintenance free hours to 70% initial lumens
- Ambient suitability -50°C to 55°C up to 125W[Ⓢ]
- Instant On - Including after power interruption
- World Voltage 120 - 277VAC 50/60Hz
- Solder-LESS LED Board Connections - Vibration Resistant
- LM80-08* Measurement of lumen maintenance for LED light sources
- LM79-08* Certified "Absolute" Photometry, including Chromaticity Color for Solid State Lighting
- L70 Values - Industry Nomenclature for Hours of use to 70% of initial Lumens - TM-21* & Calculated

PATENTED LUMINAIRE DESIGN



Available with cord and plug

Strain Relief Card Grip



* LM-xx & TM-xx are Illumination Engineering Society Standards designed to promote uniformity in testing procedures among test labs and manufacturers. For more information go to www.ies.org

Supplemental surge protection included as standard for AC models only

Units include Qty. 3 6mm terminals plus external ground as standard

Catalog Number Logic

KFLP - Series Constant

Fixture Wattage

- 060 - 60W
- 070 - 70W
- 075 - 75W
- 085 - 85W
- 090 - 90W
- 105 - 105W
- 110 - 110W
- 125 - 125W
- 150 - 150W
- 165 - 165W
- 195 - 195W

Voltage

- 30 - 120 - 277VAC 50/60Hz
- 33 - 347 - 480VAC 60Hz (85W to 125W models)[Ⓢ]

Options

- F - Single Fuse[Ⓢ]
- FF - Double Fuse[Ⓢ]
- IEX - IECEx & ATEX includes TBL and External Ground (to 125W)

[Ⓢ] Fusing not for Canadian or Marine Installations
[Ⓢ] 347V-480V +40°C Max

KFLP 125 30 XX XX XXX

Plugs

- V - VersaMate 30A
- A - Acceptor Quick Wire 15 amp
- K - KR Series Plug 20 amp
- VSI - VersaMate Non-Metallic 20 amp
- N - No Plug

Cord

- Blank - No Cord
- 25 - 25'
- 50 - 50'



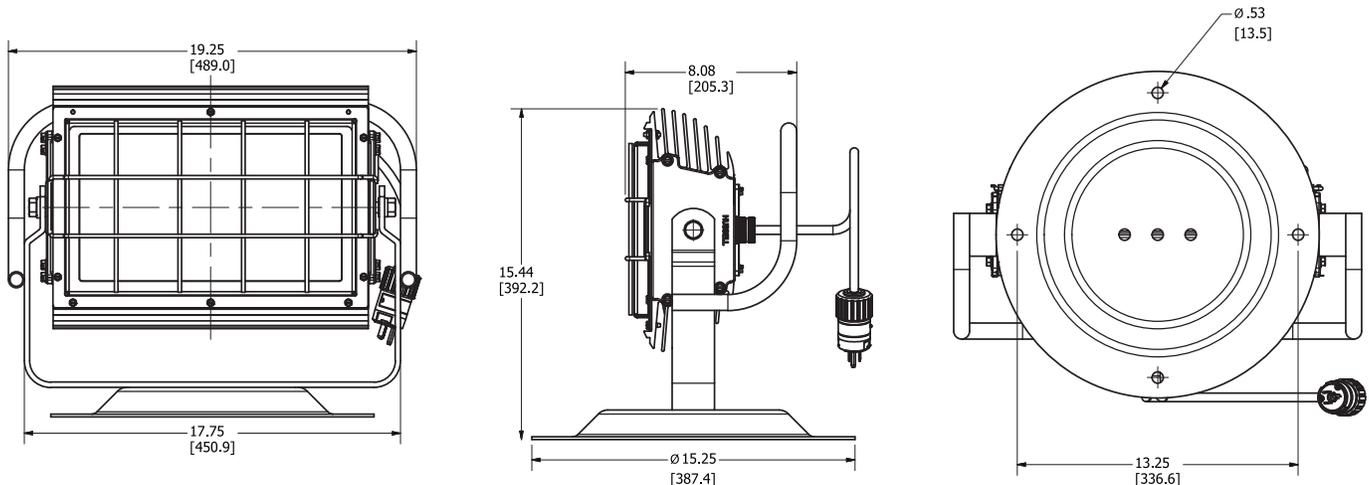
C1D2 FLOOD – ORDERING INFORMATION & TECHNICAL DATA

ORDERING INFORMATION AND AMBIENT SUITABILITY						C1D2		C1D2 SIMULTANEOUS		C2D1		IEC ZONE 2		IEC ZONE 21		L70		
CATALOG NO.	WEIGHT LBS./KG	WATTS	VOLTAGE	AMPS	LUMENS	40°C	55°C	40°C	55°C	40°C	55°C	40°C	55°C	40°C	55°C	TM-21	CALCULATED	
KFLP06030	33.00 / 14.97	60	120-277VAC	0.50-0.20	6111	T6	T5	T3C	T3C	T3C (EFG)	T3C (EFG)	T6	T5	145-70	160-85	60100	270000	
KFLP07030		70	120-277VAC	0.60-0.30	9742	T6	T5	T3C	T3C	T3C (EFG)	T3C (EFG)	T6	T5	145-70	160-85	72600	278000	
KFLP07530		75	120-277VAC	0.60-0.30	7454	T6	T5	T3C	T3C	T3C (EFG)	T3C (EFG)	T6	T5	145-70	160-85	60100	270000	
KFLP08530		85	120-277VAC	0.70-0.30	10840	T6	T5	T3C	T3C	T3C (EFG)	T3C (EFG)	T6	T5	145-70	160-85	72600	278000	
KFLP08533			347-480VAC	0.24-0.17														
KFLP09030		90	120-277VAC	0.80-0.40	9023	T6	T5	T3C	T3C	T3C (EFG)	T3C (EFG)	T6	T5	145-70	160-85	60100	270000	
KFLP09033			347-480VAC	0.28-0.23														
KFLP10530		105	120-277VAC	0.90-0.40	10370	T4A	T4A	T3C	T3C	T3C (EFG)	T3C (EFG)	T4	T4	145-70	160-85	60100	270000	
KFLP10533			347-480VAC	0.31-0.23														
KFLP11030		110	120-277VAC	0.90-0.40	13780	T6	T5	T3C	T3C	T3C (EFG)	T3C (EFG)	T6	T5	145-70	160-85	72600	278000	
KFLP11033			347-480VAC	0.31-0.23														
KFLP12530		125	120-277VAC	1.00-0.50	15340	T6	T5	T3C	T3C	T3C (EFG)	T3C (EFG)	T6	T5	145-70	160-85	72600	278000	
KFLP12533			347-480VAC	0.35-0.29														
KFLP15030		150	120-277VAC	1.25-0.54	18550	T5	-	T3C	-	T3C (EFG)	-	-	-	-	-	-	60300	190000
KFLP16530		165	120-277VAC	1.38-0.60	19220	T5	-	T3C	-	T3C (EFG)	-	-	-	-	-	-	72600	278000
KFLP19530		195	120-277VAC	1.63-0.70	21940	T5	-	T3C	-	T3C (EFG)	-	-	-	-	-	-	72600	278000

- ① Cat. nos. are 120-277VAC models, see logic for 347-480V.
- ② Amperage measured at 120VAC; 277VAC calculated
- ③ Extra high Lumens per Watt LED models
- ④ Use 75° minimum Supply Wire @40°C Ambient; 90 @55°C Ambient
- ⑤ First number is lens temperature under 25mm layer of dust; Second number is lens temp. for dust cloud.

KFLP ACCESSORIES	
CATALOG NUMBER	DESCRIPTION
KFLG	Wire Guard, 316 Stainless Steel (not used with KFL-DARK)
KFL-DOOR-POLY	Replacement Door and Lens Assembly (for units w/o internal reflectors)
VP3023	VersaMate Metallic 30 amp 3W4P Plug
UGP-15231QW	Acceptor Quick Wire 15 amp NEMA 5-15P
KP-20ABC	KR Series 20 amp Plug
VSI20P304	VersaMate Non-Metallic 20 amp 125v Plug

Dimensions





LIGHTING

C1D1 FLOOD – INTRODUCTION & LOGIC



PETROBRIGHT® LED

FEATURES-SPECIFICATIONS Applications

LED KF1L Portable Explosion-proof Floods are designed Temp App where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water, snow or high ambients can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC.

Typical applications include manufacturing plants, and certain chemical and petrochemical processing facilities, sewage treatment plants, off-shore and dockside installations, garages and storage facilities

Compliances

- UL-8750 for LED lighting
- ANSI/UL 1598A
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 1; Class II, Division 1; Class III
- CSA C22.2 no. 137-M1981 electric luminaires for use in hazardous locations
- IEX4B suffix for Zone 1 and Zone 21 to IEC 60079-0,60079-1,60079-31, 60079-7 Standards
- Enclosed and gasketed
- NEMA 3, 4X
- IP66

Materials

- Body and lens frame corrosion resistant copper-free aluminum alloy with baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- All external hardware - stainless steel
- Thermal shock and impact resistant extra heavy-duty glass lens
- High temperature silicone gasketing
- Trunnion heavy gauge 316 SS

LED Flood Features and Standards

- **Factory Sealed Construction**
- One 3/4" NPT & one M20 entry standard (see logic for other choices)
- **Supplemental surge protection (AC models 120-277VAC only)**
- Crisp White Light for Excellent Color Rendering – Chromaticity 5000 K (CCT); approx. 70 CRI
- Energy Savings – High lumens per watt
- Long Life – 80,000 maintenance free hours to 70% initial lumens
- Instant On – Including after power interruption
- World Voltage 120 – 277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant
- LM80-08* Measurement of lumen maintenance for LED light sources
- LM79-08* Certified "Absolute" Photometry, including Chromaticity Color for Solid State Lighting
- L70 Values – Industry Nomenclature for Hours of use to 70% of initial Lumens – TM-21* & calculated

Class I, Div. 1&2, Groups B,C,D
Class I, Zone 1&2, Groups IIB+H2, IIA
Class II, Div. 1&2, Groups EFG, Class III
Enclosure Type 4X, IP66 (-50°C to +55°C)

File LR11713

IEC Ex Rated model (w/IEX or IEX4B suffix)
 Zone 1, Zone 21

Ex de IIB+H2 T6..T5, Gb, IP66

Tamb -20°C ≤ Ta ≤ +55°C;

Option LT for -50°C ≤ Ta ≤ +55°C^①

Ex de IIB T6..T5, Gb, -50°C ≤ Ta ≤ +55°C^①

Ex tb IIIC T90°C Db, -50°C ≤ Ta ≤ +55°C^①

IEEX Certificate

CSA 14.0010

ATEX Certificate

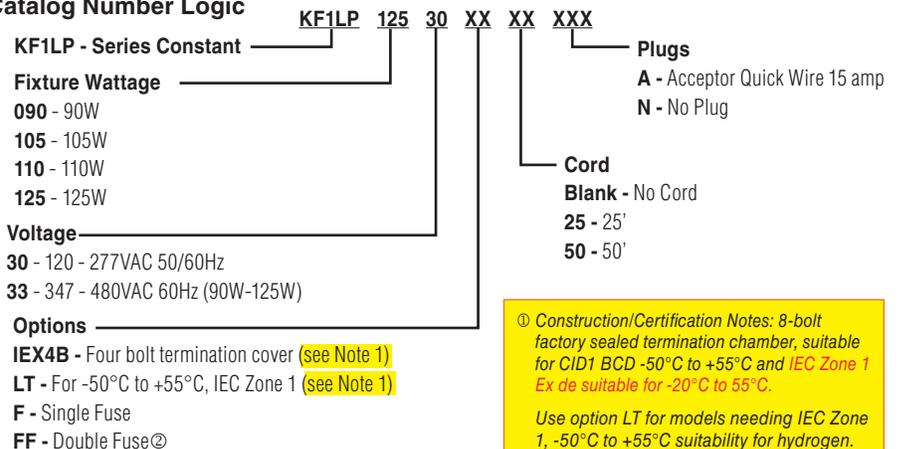
SIRA 14ATEX1159X

Patent Pending Fixture Design



* LM-xx & TM-xx are Illumination Engineering Society Standards designed to promote uniformity in testing procedures among test labs and manufacturers. For more information go to www.ies.org

Catalog Number Logic



^② Fusing not for Canadian or Marine Installations

^① Construction/Certification Notes: 8-bolt factory sealed termination chamber, suitable for CID1 BCD -50°C to +55°C and IEC Zone 1 Ex de suitable for -20°C to 55°C.
 Use option LT for models needing IEC Zone 1, -50°C to +55°C suitability for hydrogen.
 Option IEX4B utilizes 4 terminal cover bolts for Ex de and maintains all ratings EXCEPT CID1 BCD.



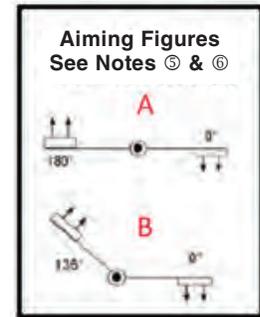
C1D1 FLOOD – ORDERING & TECHNICAL DATA

ORDERING INFORMATION AND AMBIENT SUITABILITY						C1D1		C2D1		IEC ZONE 1		IEC ZONE 21		L70	
CATALOG NO.	WEIGHT LBS./KG	WATTS	VOLTAGE	AMPS	LUMENS	40°C	55°C	40°C	55°C	40°C	55°C	40°C	55°C	TM-21	CALCULATED
KF1L09030	49.00 / 22.22	90	120-277VAC	0.72-0.31	7182	T6	T6	(EFG)	Ⓢ	T6	T5	160-75	175-90	60100	270000
KF1L09033			347-480VAC	0.25-0.18											
KF1L10530		105	120-277VAC	0.85-0.37	8362	T6	T6	(EFG)	Ⓢ	T6	T5	160-76	175-91	60100	270000
KF1L10533			347-480VAC	0.29-0.21											
KF1L11030		110	120-277VAC	0.95-0.41	10590	T6	T6	(EFG)	Ⓢ	T6	T5	160-77	175-92	72600	278000
KF1L11033			347-480VAC	0.33-0.24											
KF1L12530		125	120-277VAC	1.10-0.48	11590	T6	T6	(EFG)	Ⓢ	T6	T5	160-78	175-93	72600	278000
KF1L12533			347-480VAC	0.38-0.28											
KF1L15030		150	120-277VAC	1.25-0.54	13280	T5	-	-	-	-	T5	-	-	60300	190000
KF1L16530		165	120-277VAC	1.38-0.60	13760	T5	-	-	-	-	T5	-	-	72600	278000
KF1L19530	195	120-277VAC	1.63-0.70	15707	T5	-	-	-	-	T5	-	-	72600	278000	

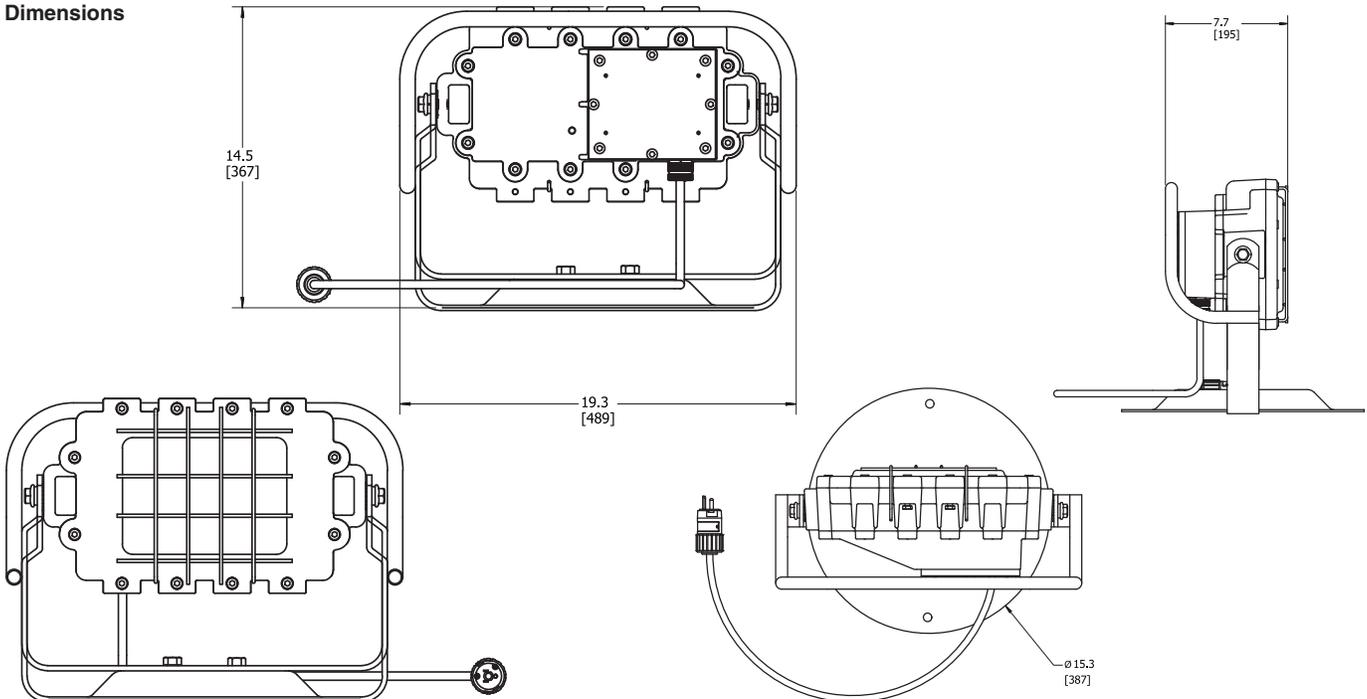
- ① Yellow highlighted models have extra high lumen LED's.
- ② See logic for 347-480V availability
- ③ Amperage measured at 120VAC; 277VAC calculated
- ④ Use minimum 75° Supply Wire @40°C Ambient; 90°@55°C Ambient
- ⑤ First number is lens temperature under 25mm layer of dust; Second number is lens temp for dust cloud.
- ⑥ 55°C C2D1 EFG T3C Aiming Figure "B", 55°C C2D1 EF T3A Aiming Figure "A"

KF1L MOUNTS AND ACCESSORIES	
CATALOG NUMBER	DESCRIPTION
KF1LG	Wire Guard, 316 Stainless Steel
KF1L-DOOR	Replacement Door and Lens Assembly
VP3023	VersaMate Metallic 30 amp 3W4P Plug
UGP-15231QW	Acceptor Quick Wire 15 amp NEMA 5-15P
KP-20ABC	KR Series 20 amp Plug
VSI20P304*	VersaMate Non-Metallic 20 amp 125v Plug

* (note only with IEX suffix)



Dimensions





LIGHTING

UTILITY LIGHT – INTRODUCTION



V SERIES LED

FEATURES-SPECIFICATIONS

Introduction

Killark 'VSL' Series LED fixtures are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4 areas where wind, water, snow or high ambients can be expected. VSL's are sized to replace "Utility" type fixtures (incandescent or CFL's) in hallways, closets, elevator pits, docks, stairwells, access tunnels, and mechanical rooms. These fixtures can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC. Typical applications include manufacturing plants, and certain chemical and petrochemical processing facilities, sewage treatment plants, off-shore and dockside installations, and garage areas.

LED Luminaire Features and Standards

- Compact in Size with Traditional Industrial Appearance and Suitability
- Wide variety of optics including glass globes (clear and tempered, color) plus polycarbonate globes in clear and colors
- Optional Mounting arrangements including Pendant, Wall, Ceiling, Stanchion and Adapters
- Fixtures available unit packed, order option CP
- VSL LED Housings can be retrofitted to existing V Series splice boxes; upgrade from CFL or incandescent
- Energy Savings – less than 13 Watts of Power; less than 16 Watts for VSL1630. Replaces 75W or higher incandescent
- Long Life – 60,500+ maintenance-free hours to 70% initial lumens
- Crisp White Light for Excellent Color Rendering – Chromaticity 5000°K (CCT); 70 CRI

- Integral driver – maintains fixture's compact profile to fit in existing spaces
- Ambient suitability -40°C to 55°C
- Instant on – including after power interruption
- "World Voltage" 120-277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant
- LM80-08* Measurement of lumen maintenance for LED light sources
- LM79-08* Certified "Absolute" Photometry, including Chromaticity Color for Solid State Lighting
- TM-21* method to project long term lumen maintenance
- L70 Values – Industry Nomenclature for Hours of use to 70% of Initial Lumens

Compliances

- UL-8750 for LED lighting
- UL 1598 standard for luminaires
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 2; Class II, Division 2; Class III, Division 2
- CSA C22.2 no. 137-M1981 electric luminaires for use in hazardous locations
- Enclosed and gasketed
- NEMA 3, 4

Materials, Weights

- Body, splice box and guards are corrosion resistant copper-free aluminum alloy
- Baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- Reflectors – Polypropylene for pendant or ceiling applications
- Heavy-duty silicone gasketing for NEMA 4 requirements

Class I, Div. 2, Groups A,B,C,D
 Class I, Zone 2, Groups IIC,IIB,IIA
 Class II, Div. 2, Groups F,G^①
 Class III
 Suitable for wet locations
 Enclosure Type 4^②

Certified - File LR11713

Optic Selection Examples

- Broadest **COLOR** globe offering for Hazardous Locations in the industry
- Use as status lights or specialty/emergency indicators



* LM-xx & TM-21 are Illumination Engineering Society Standards designed to promote uniformity in testing procedures among test labs and manufacturers. For more information go to www.ies.org

① When mounted (globe down) to V series boxes; not Class II, Div. 2 or NEMA 4 on VBA, VFPS, VB or VFL adaptors to sheet metal boxes.

② Glass globe models to 55°C; Polycarbonate suitable to 40°C.



UTILITY LIGHT – CATALOG LOGIC



Clear Glass w/Guard

White Glass w/ Guard

Blue Glass

Clear Polycarbonate

Red Polycarbonate



Class I, Div. 2, Groups A,B,C,D
 Class I, Zone 2, Groups IIC,IIB,IIA
 Class II, Div. 2, Groups F,G^①
 Class III
 Suitable for wet locations
 Enclosure Type 4^①

Certified - File LR11713

V SERIES LED Catalog Number Logic

- VSL Series Constant**
 1
Lamp Wattage
 13 = 13W LED
 16 = 16W LED
Voltage
 30 – 120-277VAC (13W, 16W)
 27 – 12-24VDC (13W, 16W)
 34 – 120-250VDC (13W)
Mounting Type
 NN – Mounr Ordered Separately
 A1 – 1/2" Pendant (VGA-1)
 A2 – 3/4" Pendant (VGA-2)
 F1 – 1/2" Ceiling w/Feet & Adapter (VBC-1 w/VBA)
 F2 – 3/4" Ceiling w/Feet & Adapter (VBC-2 w/VBA)
 X1 – 1/2" Ceiling (VGX-1)
 X2 – 3/4" Ceiling (VGX-2)
 C1 – 1/2" Ceiling (VGC-1)
 C2 – 3/4" Ceiling (VGC-2)
 H1 – 1/2" Ceiling Dead End (VGH-1)
 H2 – 3/4" Ceiling Dead End (VGH-2)
 D1 – 1/2" Ceiling Deep (VXA-1)
 D2 – 3/4" Ceiling Deep (VXA-2)
 D4 – 1-1/4" Stanchion (VD-4)
 RA – Round (Box) Adapter (VBA)
 SA – Square (Box) Adapter (VFPS)
 W1 – 1/2" Wall w/Feet (VBC-1 w/VB-1)
 W2 – 3/4" Wall w/Feet (VBC-2 w/VB-2)
 V1 – 1/2" Wall Elbow (VB-1)
 V2 – 3/4" Wall Elbow (VB-2)
 FL – Elbow for "V" Box (VFL)

- S** – Standard Reflector (Pendant or Ceiling Use Only)^②
CP – Component Pack^③
Optic Color (Optic Type)
 A – Amber (S, H, P)
 B – Blue (S, H)
 R – Red (S, H, P)
 G – Green (S, P)
 P – Purple (S)
 BG – Blue Green (S, H)
 W – White (S)
Guard
 G – Guard (For Glass Globes Only)
 N – No Guard (Standard on Polycarbonate Globes)
 R – Guard Red (For Glass Globes Only)
 Can Signify Emergency UPS Circuits
Optics**
 S – Standard Globe (Clear)
 H – Heat Resistant (Tempered) Globe (Clear)
 P – Polycarbonate (Clear)



COLORED GLOBE OPTIONS** EXAMPLE VSL1330A1SG-A			
SUFFIX AND AVAILABLE COMBINATIONS			
COLOR NUMBER	STANDARD GLOBE	TEMPERED GLOBE	POLYCARBONATE
AMBER	A	A	A
BLUE	B	B	—
RUBY	R	R	R
GREEN	G	—	G
PURPLE	P	—	—
BLUE-GREEN	BG	BG	—
WHITE	W	W	W



** Use tempered glass or poly globe for wet location applications.
^① When mounted (globe down) to V series boxes; not Class II, Div.2 or NEMA 4 on VBA, VFPS, VB or VFL adaptors to sheet metal boxes.
^② Reflector is held on fixture body by VAG-100 guard for glass globe models or polycarbonate globe's shoulder. Reflectors ship separately.
^③ CP option includes complete fixture in components contained in single outer carton.

LIGHTING

VSL SERIES



UTILITY LIGHT – ORDERING INFORMATION



Class I, Div. 2, Groups A,B,C,D
 Class I, Zone 2, Groups IIC,IIB,IIA
 Class II, Div. 2, Groups F,G[ⓐ]
 Class III
 Suitable for wet locations
 Enclosure Type 4[ⓐ]

Certified - File LR11713

ORDERING INFORMATION



Glass Globe

Poly Globe

PENDANT MOUNT WITH VGA SPLICE BOX 1 – HUB						
LED	WATTS	VOLTAGE	HUB SIZE	FIXTURE W/ STANDARD CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ TEMPERED CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ CLEAR POLYCARBONATE GLOBE**
VSL1330	13	120-277VAC	1/2"	VSL1330A1SG	VSL1330A1HG	VSL1330A1PN
			3/4"	VSL1330A2SG	VSL1330A2HG	VSL1330A2PN
VSL1630	16	120-277VAC	1/2"	VSL1630A1SG	VSL1630A1HG	VSL1630A1PN
			3/4"	VSL1630A2SG	VSL1630A2HG	VSL1630A2PN



Glass Globe

Poly Globe

CEILING MOUNT WITH FEET USING VBC SPLICE BOX AND VBA ADAPTER 4 – HUBS						
LED	WATTS	VOLTAGE	HUB SIZE	FIXTURE W/ STANDARD CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ TEMPERED CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ CLEAR POLYCARBONATE GLOBE**
VSL1330	13	120-277VAC	1/2"	VSL1330F1SG	VSL1330F1HG	VSL1330F1PN
			3/4"	VSL1330F2SG	VSL1330F2HG	VSL1330F2PN
VSL1630	16	120-277VAC	1/2"	VSL1630F1SG	VSL1630F1HG	VSL1630F1PN
			3/4"	VSL1630F2SG	VSL1630F2HG	VSL1630F2PN



Glass Globe

Poly Globe

CEILING MOUNT WITH VGX SPLICE BOX 4 – HUBS						
LED	WATTS	VOLTAGE	HUB SIZE	FIXTURE W/ STANDARD CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ TEMPERED CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ CLEAR POLYCARBONATE GLOBE**
VSL1330	13	120-277VAC	1/2"	VSL1330X1SG	VSL1330X1HG	VSL1330X1PN
			3/4"	VSL1330X2SG	VSL1330X2HG	VSL1330X2PN
VSL1630	16	120-277VAC	1/2"	VSL1630X1SG	VSL1630X1HG	VSL1630X1PN
			3/4"	VSL1630X2SG	VSL1630X2HG	VSL1630X2PN



Glass Globe

Poly Globe

CEILING MOUNT WITH VGC SPLICE BOX – FEED THROUGH 2 – HUBS						
LED	WATTS	VOLTAGE	HUB SIZE	FIXTURE W/ STANDARD CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ TEMPERED CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ CLEAR POLYCARBONATE GLOBE**
VSL1330	13	120-277VAC	1/2"	VSL1330C1SG	VSL1330C1HG	VSL1330C1PN
			3/4"	VSL1330C2SG	VSL1330C2HG	VSL1330C2PN
VSL1630	16	120-277VAC	1/2"	VSL1630C1SG	VSL1630C1HG	VSL1630C1PN
			3/4"	VSL1630C2SG	VSL1630C2HG	VSL1630C2PN

[ⓐ] When mounted (globe down) to V series boxes; not Class II, Div.2 or NEMA 4 on VBA, VFPS, VB or VFL adaptors to sheet metal boxes.

** Use tempered glass or poly globes for wet location applications. See logic page for available globe colors.



UTILITY LIGHT – ORDERING INFORMATION



Class I, Div. 2, Groups A,B,C,D
 Class I, Zone 2, Groups IIC,IIB,IIA
 Class II, Div. 2, Groups F,G[Ⓢ]
 Class III
 Suitable for wet locations
 Enclosure Type 4[Ⓢ]

Certified - File LR11713

ORDERING INFORMATION

CEILING MOUNT WITH VGH SPLICE BOX – DEAD END 1 – HUB

LED	WATTS	VOLTAGE	HUB SIZE	FIXTURE W/ STANDARD CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ TEMPERED CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ CLEAR POLYCARBONATE GLOBE**
VSL1330	13	120-277VAC	1/2"	VSL1330H1SG	VSL1330H1HG	VSL1330H1PN
			3/4"	VSL1330H2SG	VSL1330H2HG	VSL1330H2PN
VSL1630	16	120-277VAC	1/2"	VSL1630H1SG	VSL1630H1HG	VSL1630H1PN
			3/4"	VSL1630H2SG	VSL1630H2HG	VSL1630H2PN



Glass Globe



Poly Globe



Glass Globe



Poly Globe

CEILING MOUNT WITH VXA DEEP SPLICE BOX – HUBS

LED	WATTS	VOLTAGE	HUB SIZE	FIXTURE W/ STANDARD CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ TEMPERED CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ CLEAR POLYCARBONATE GLOBE**
VSL1330	13	120-277VAC	1/2"	VSL1330D1SG	VSL1330D1HG	VSL1330D1PN
			3/4"	VSL1330D2SG	VSL1330D2HG	VSL1330D2PN
VSL1630	16	120-277VAC	1/2"	VSL1630D1SG	VSL1630D1HG	VSL1630D1PN
			3/4"	VSL1630D2SG	VSL1630D2HG	VSL1630D2PN



Glass Globe



Poly Globe

CEILING MOUNT WITH VBA ADAPTER FOR ROUND OUTLET BOX 0 – HUBS[Ⓢ]

LED	WATTS	VOLTAGE	HUB SIZE	FIXTURE W/ STANDARD CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ TEMPERED CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ CLEAR POLYCARBONATE GLOBE**
VSL1330	13	120-277VAC	–	VSL1330RASG	VSL1330RAHG	VSL1330RAPN
VSL1630	16	120-277VAC	–	VSL1630RASG	VSL1630RAHG	VSL1630RAPN



Glass Globe



Poly Globe

CEILING MOUNT WITH VFPS ADAPTER FOR SQUARE OR OCTAGON OUTLET BOX 0 – HUBS[Ⓢ]

LED	WATTS	VOLTAGE	HUB SIZE	FIXTURE W/ STANDARD CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ TEMPERED CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ CLEAR POLYCARBONATE GLOBE**
VSL1330	13	120-277VAC	–	VSL1330SASG	VSL1330SAHG	VSL1330SAPN
VSL1630	16	120-277VAC	–	VSL1630SASG	VSL1630SAHG	VSL1630SAPN

[Ⓢ] When mounted (globe down) to V series boxes; not Class II, Div.2 or NEMA 4 on VBA, VFPS, VB or VFL adaptors to sheet metal boxes.

** Use tempered glass or poly globes for wet location applications. See logic page for available globe colors.

LIGHTING

VSL SERIES



UTILITY LIGHT – ORDERING INFORMATION



Class I, Div. 2, Groups A,B,C,D
 Class I, Zone 2, Groups IIC,IIB,IIA
 Class II, Div. 2, Groups F,G^①
 Class III
 Suitable for wet locations
 Enclosure Type 4^②

Certified - File LR11713

ORDERING INFORMATION

WALL MOUNT WITH FEET USING VBC SPLICE BOX AND VB ELBOW 4 – HUBS

LED	WATTS	VOLTAGE	HUB SIZE	FIXTURE W/ STANDARD CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ TEMPERED CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ CLEAR POLYCARBONATE GLOBE**
VSL1330	13	120-277VAC	1/2"	VSL1330W1SG	VSL1330W1HG	VSL1330W1PN
			3/4"	VSL1330W2SG	VSL1330W2HG	VSL1330W2PN
VSL1630	16	120-277VAC	1/2"	VSL1630W1SG	VSL1630W1HG	VSL1630W1PN
			3/4"	VSL1630W2SG	VSL1630W2HG	VSL1630W2PN



Glass Globe



Poly Globe



Glass Globe



Poly Globe

WALL MOUNT WITH VB ELBOW TO MOUNT TO 4" OUTLET BOX 0 – HUBS^①

LED	WATTS	VOLTAGE	NECK HUB SIZE	FIXTURE W/ STANDARD CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ TEMPERED CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ CLEAR POLYCARBONATE GLOBE**
VSL1330	13	120-277VAC	1/2"	VSL1330V1SG	VSL1330V1HG	VSL1330V1PN
			3/4"	VSL1330V2SG	VSL1330V2HG	VSL1330V2PN
VSL1630	16	120-277VAC	1/2"	VSL1630V1SG	VSL1630V1HG	VSL1630V1PN
			3/4"	VSL1630V2SG	VSL1630V2HG	VSL1630V2PN



Glass Globe



Poly Globe

WALL MOUNT – WITH VFL ELBOW FOR DIRECT MOUNT TO V SERIES SPLICE BOXES 0 – HUBS^①

LED	WATTS	VOLTAGE	HUB SIZE	FIXTURE W/ STANDARD CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ TEMPERED CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ CLEAR POLYCARBONATE GLOBE**
VSL1330	13	120-277VAC	–	VSL1330FLSG	VSL1330FLHG	VSL1330FLPN
VSL1630	16	120-277VAC	–	VSL1630FLSG	VSL1630FLHG	VSL1630FLPN



Glass Globe



Poly Globe

STANCHION MOUNT FOR 1-1/4" THREADED PIPE 1 – HUB

LED	WATTS	VOLTAGE	HUB SIZE	FIXTURE W/ STANDARD CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ TEMPERED CLEAR GLASS GLOBE & GUARD**	FIXTURE W/ CLEAR POLYCARBONATE GLOBE**
VSL1330	13	120-277VAC	1-1/4"	VSL1330D4SG	VSL1330D4HG	VSL1330D4PN
VSL1630	16	120-277VAC	1-1/4"	VSL1630D4SG	VSL1630D4HG	VSL1630D4PN

^① When mounted (globe down) to V series boxes; not Class II, Div.2 or NEMA 4 on VBA, VFPS, VB or VFL adaptors to sheet metal boxes.

** Use tempered glass or poly globes for wet location applications. See logic page for available globe colors.



UTILITY LIGHT – COMPONENTS



VSL Body

**RETROFIT
FOR ENERGY
SAVINGS**

VSL Fixture Bodies Only

Fixture bodies contain the LED driver and array, heat sink plus gaskets, and are threaded to accept globes, guards and reflectors. Users with KILLARK “V” Series vapor tight fixtures from the 1960’s onward can up-grade to the latest technology and, in many cases, reuse existing mounts, globes and guards. VSL bodies are designed for metallic boxes and mount directly to V Series splice boxes or adapters as indicated.

VSL FIXTURE BODIES	
CATALOG NUMBER	DESCRIPTION
VSL1330	13W 120-277VAC 50/60Hz Body with LEDs and Driver
VSL1630	16W 120-277VAC 50/60Hz Body with LEDs and Driver



VGA



VGH



VGC



VGX



VXA



VBC



VBA



VFPS

VSL Splice Boxes

For use with VSL Series fixture bodies.

VSL SPLICE BOXES				
CATALOG NUMBER	HUB SIZE	QTY.	LOGIC CODE	DESCRIPTION
VGA-1	1/2"	1	A1	Pendant mount
VGA-2	3/4"	1	A2	
VGH-1	1/2"	1	H1	Ceiling mount
VGH-2	3/4"	1	H2	
VGC-1	1/2"	2	C1	Ceiling mount
VGC-2	3/4"	2	C2	
VGX-1	1/2"	4	X1	Ceiling mount
VGX-2	3/4"	4	X2	
VXA-1	1/2"	5	D1	Ceiling mount, deep box
VXA-2	3/4"	5	D2	
VBC-1*	1/2"	4	F1	Ceiling mount, with 3 close-up plugs (requires VBA Adapter) or wall mount with VB elbow
VBC-2*	3/4"	4	F2	
VXAB	–	–	–	Blank close-up plate (less gasket)

*Volume cu. in. is 18

VSL Adapters

VSL ADAPTER MOUNTING PLATES	
CATALOG NUMBER	DESCRIPTION
VBA	Adapts fixture body to VB, VJ or steel 3-1/2" & 4" splice boxes. Supplied with gasket.
VFPS	Adapts fixture body to steel 4" square outlet boxes or 3-1/2" or 4" octagon boxes

VSL Wall/Stanchion Mounts

VSL MOUNTING BRACKETS			
CATALOG NUMBER	HUB SIZE	QTY.	DESCRIPTION
VB-1	1/2"	1	Wall mount to VJ or VB boxes
VB-2	3/4"	1	Wall mount to VJ or VB boxes
VFL	–	–	Wall mount to V boxes directly or to VJ, VB boxes with VBA adapter
VD-4	1-1/4"	1	Stanchion mount



VB



VFL



VD



LIGHTING

UTILITY LIGHT – COMPONENTS, RATINGS & WEIGHTS



VSL Globes

VSL GLOBES – ORDERING INFORMATION AND SUFFIX GRID**						
COLOR	GLASS	OPTIC LOGIC	TEMPERED GLASS	OPTIC LOGIC	POLYCARBONATE	OPTIC LOGIC
Clear	VCG-100	S*	VCGP-100	H*	VPLCG-100	P*
Amber	AMG-100	A	VAMGP-100	A	VPLCG-100A	A
Blue	VBG-100	B	VBGP-100	B	–	–
Ruby (Red)	VRG-100	R	VRGP-100	R	VPLCG-100R	R
Green	VRSG-100	G	–	–	VPLCG-100G	G
Purple	VPG-100	P	–	–	–	–
Blue-Green	VGG-100	BG	VGGP-100	BG	–	–
White	VWG-100	W	VWGP-100	W	VPLCG-100W	W

* See Pre-configured ordering tables for complete fixtures.

** Use tempered glass or polycarbonate globes for wet location applications.



VSL Components

VSL COMPONENT PARTS AND ACCESSORIES	
CATALOG NUMBER	DESCRIPTION
VAG-100	Aluminum Guard for use with Glass Globe
VAG-100R	Red Aluminum Guard for use with Glass Globe
VTG-S	Body to Splice Box Gasket – Silicone
VTGG1-S	Globe Gasket – Silicone
VPRSD-100	White polypropylene for pendant & ceiling applications. Not for use with wall or stanchion models.

Typical Weights (lbs.) w/Standard Globe and Guard – VSL Series			
Pendant 7.03	Ceiling 7.51	Wall 8.09	Stanchion 7.61

VSL Thermal Ratings

VSL THERMAL PERFORMANCE DATA INCLUDING VPRSD-100 REFLECTOR								
CATALOG NUMBER	AMBIENT	C1D2		C2D2		SUPPLY	L70 ^③	
		GLASS GLOBE	POLY GLOBE	GLASS GLOBE	POLY GLOBE	WIRE	TM-21	CALCULATED
VSL1330	40°C	T6	T5	T5 (F,G)	T5 (F,G)	90°	60,500	100,000+
VSL1330	55°C	T5	–	–	–	90°	60,500	100,000+
VSL1630	40°C	T5	–	T5 (F,G)	–	90°	60,500	100,000+

VSL Electrical Ratings

VSL LED BODY WITH DRIVERS/JAND LEDS – ELECTRICAL RATINGS					
CATALOG NUMBER	VOLTAGE 50/60HZ	WATTAGE	AMPS 120/277	CIL ^②	WEIGHT LBS.
VSL1330	120-277VAC	12.42	.108/.047	1300	5.0
VSL1630	120-277VAC	15.64	.156/.067	1625	5.0

VSL TOTAL LUMEN OUTPUT			
WATTAGE	W/GLOBE VCG-100	W/GLOBE VPLCG-100	W/GLOBE VWG100
13W	1211	1104	905
16W	1328	1308	1072

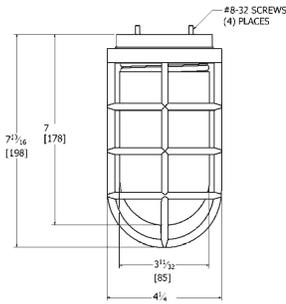
① Driver THD<20%, Powerfactor >90% @ 120V; Line regulation 2%; Load regulation 5%; Protected against Over-voltage and Overcurrent.

② CIL = Calculated Initial Lumens of LED component based on mfg. data and driver current INSIDE the optic. This value is provided as a reference only for comparison to traditional light sources such as Incandescent, HID, or fluorescent which use initial values in "relative" photometry. KILLARK LED luminaires are tested using the Absolute photometry method (LM79-08), which calculates delivered lumens only. KILLARK's LED luminaires provide very bright white 5000o K (CCT) color and can appear brighter than traditional light sources with higher lumen values under both photopic and scotopic conditions.

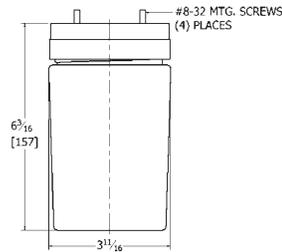
③ "TM-21 based values require very long duration testing. The L70/TM-21 "official reported" value is based on 10,000 hours testing at 1000mA drive current ("reported L70" is a factor of test duration). KILLARK's VSL utilizes lower 450mA maximum drive current - "calculated" values by the chip vendor predict L70 life substantially in excess of 100,000 hours even at 1000mA."



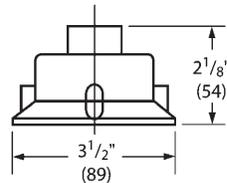
UTILITY LIGHT – DIMENSIONS



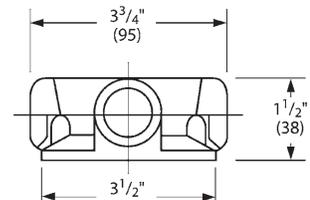
VSL Body w/Globe & Guard, No Splice Box



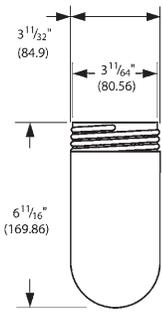
VSL Body w/Polycarbonate Globe, No Splice Box



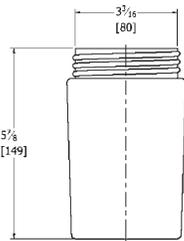
VGA



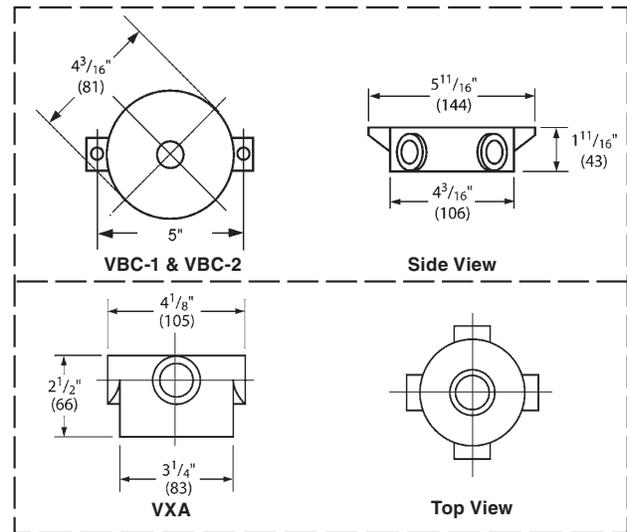
**VGC or VGX
*VGH is 3-5/8" (92)**



Glass Globe



Polycarbonate Globe

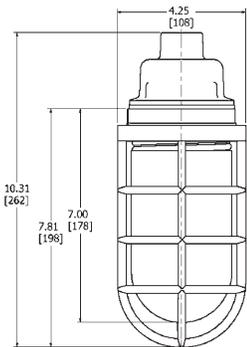


VBC-1 & VBC-2

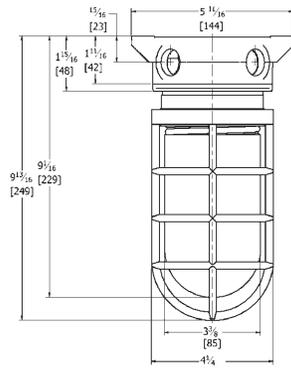
Side View

VXA

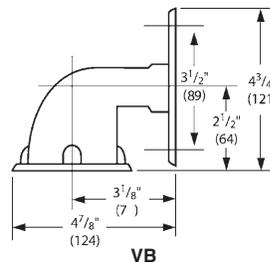
Top View



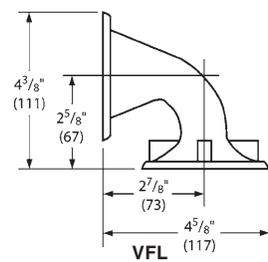
VSL Pendant Fixture w/Globe & Guard



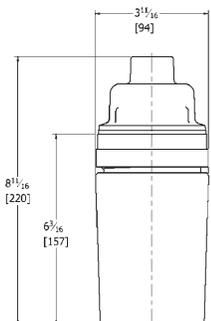
VSL Ceiling Fixture w/Globe & Guard



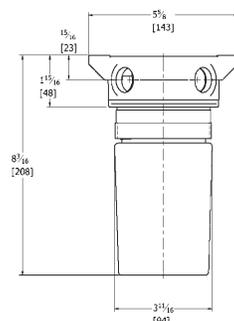
VB



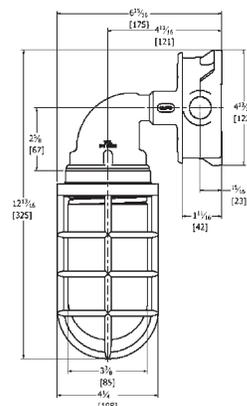
VFL



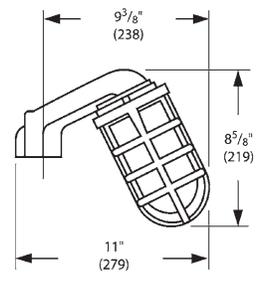
VSL Pendant Fixture w/Polycarbonate Globe



VSL Ceiling Fixture w/Polycarbonate Globe



VSL Wall Mounted Fixture w/Globe & Guard



VSL Stanchion Fixture w/Globe & Guard



LIGHTING

CLASS II UTILITY LIGHT – INTRODUCTION & ORDERING INFORMATION



Class II, Div. 1 & 2, Groups E, F, G
Class III
Class I, Div. 2, Groups A, B, C, D

SP US Certified - File LR11713

DV SERIES LED

FEATURES-SPECIFICATIONS Introduction

Killark 'DVL' Series LED fixtures are designed for hazardous locations where suspended metal, carbon (such as coal) and grain dusts create explosive or ignitable mixture with the air.

LED Luminaire Features and Standards

- Compact in Size with Traditional Industrial Appearance and Suitability
- DVL LED Housings can be retrofitted to existing DV Series splice boxes; upgrade from incandescent housing 100 Series components
- Long Life – 60,500+ maintenance-free hours to 70% initial lumens
- Crisp White Light for Excellent Color Rendering – Chromaticity 5000°K (CCT); 70 CRI
- Integral driver – maintains fixture's compact profile to fit in existing spaces
- Instant on – including after power interruption
- "World Voltage" 120-277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant

Compliances

- UL-8750 for LED lighting
- UL 1598 standard for luminaires
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 2; Class II, Division 2; Class III, Division 2
- CSA C22.2 no. 137-M1981 electric luminaries for use in hazardous locations

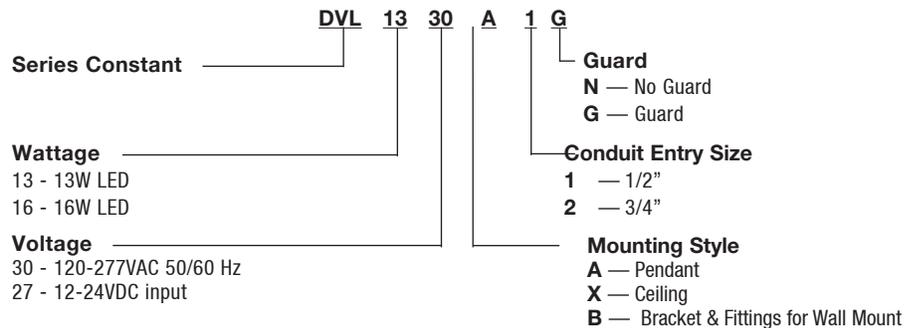
Materials, Weights

- Body and splice box are corrosion resistant copper-free aluminum alloy. Steel guard.
- Baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection

DVL 100 SERIES ①						
MODEL	LAMP	HUB	PENDANT	CEILING	WALL	DELIVERED LUMENS
Type 100 13Watt	Included	1/2"	DVL1330A1G	DVL1330X1G	DVL1330B1G	1144
		3/4"	DVL1330A2G	DVL1330X2G	DVL1330B2G	
Type 100 16Watt	Included	1/2"	DVL1630A1G	DVL1630X1G	DVL1630B1G	1355
		3/4"	DVL1630A2G	DVL1630X2G	DVL1630B2G	

① Fixtures supplied with guard. Substitute 'n' for 'g' for fixture less guard.

DVL Series LED Catalog Logic



Accessories/Components

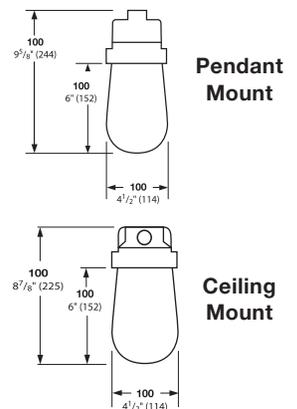
Bodies		Mounts	
DVL 1330	LED 13W	DVA1	1/2" Pendant Mount
DVL 1327	LED 13W	DVA2	3/4" Pendant Mount
DVL 1630	LED 16W	DVX1	1/2" Ceiling Mount
DVL 1627	LED 16W	DVX2	3/4" Ceiling Mount
		DVB1	1/2" Wall Mount
		DVB2	3/4" Wall Mount

Globe	Guard
DCGE-10	DAG-100

DVL THERMAL RATINGS						
CAT. NO.	AMBIENT	WATTS	C2D1 EFG	C1D2 ABCD	SUPPLY WIRE	
DVL1330	40°C	13	T3B	T6	90°C	
DVL1630	40°C	16	T3B	T6	90°C	
DVL1330	55°C	13	-	T5	90°C	
DVL1630	55°C	16	-	T5	90°C	

DVL Electrical and L70 Ratings
Same as VSL Series - See page L55

Dimensions As 100 Series incandescent



Wall Mount overall dimensions
Height = 13.125" (333mm)
Outward from wall = 7.4" (188mm)



EMERGENCY BATTERY SYSTEM – INTRODUCTION



EBS Battery Unit Only



Class I, Div. 1&2, Groups B[Ⓛ], C, D
 Class I, Zone 1&2, Groups IIB+H2[Ⓛ], IIA
 Class II, Div. 1&2, Groups EFG
 Class III
 Enclosure Type 4 (NEMA 4, 7B[Ⓛ] CD, 9EFG)

File LR11713

HOSTILE^{ITE} EBS EMERGENCY

FEATURES-SPECIFICATIONS

Applications

Where required by the NEC (or local "Life Safety" code) for safe egress (over doors, aisleways, stairs, walkways, exit paths, and outer perimeter walls) to provide illumination during interruption of normal power to area lighting.

In indoor or outdoor locations made hazardous by the presence of flammable gas, vapors, or dusts. Includes refinery/chemical production and storage, grain processing, waste water treatment facilities and any area requiring heavy-duty dependable emergency lighting.

Exclusive Features

- LED Heads provide clear crisp illumination at 5000° Kelvin[Ⓛ]
- LED Head L70 value 100,000 hours for minimal maintenance
- Two head models up to 500% brighter than competitive conventional units[Ⓛ]
- Enclosure Type 4 (NEMA 4) for wet and harsh locations
- Group B is standard when using EBSHK type heads
- Automatic Safety Disconnect – Removing main cover disconnects battery power
- Ambient Suitability 0°C to 45°C Battery Unit; Heads to 55°
- Compact unit requires only two mounting points
- World Voltage 120-277 VAC 50/60Hz input

Other Features

- High % of lumens maintained during 90 minute egress cycle
- EBSHK type heads are fully adjustable on unit or remote when ordered with RFSL Factory Sealed mounting kits

- EBSEL type heads are factory sealed on their EZ type mounting boxes
- Heads can be remote mounted over 300' from battery unit
- Ni-Cad sealed batteries provide 90 minutes of illumination
- Integral base unit LED pilot light indicates AC power is present
- Choice of Integral or Remote Push-To-Test station to verify system operation
- Vapor Capsule to inhibit corrosion is standard with main enclosure unit
- Terminal Blocks identified for incoming and outgoing connections

Compliances

- UL 1598 Standard for Luminaires
- UL 8750 for LED Lighting
- UL 844 Luminaires for Hazardous Locations
- UL 1203 Explosion-Proof/Dust-Ignition-Proof Electrical Enclosures
- UL 924 Emergency Lighting
- CSA C22.2 no. 137-M1981 Luminaires for Hazardous Locations
- CSA C22.2 no. 30-M1986 C1D1 Enclosures
- CSA 22.2 no. 25-1066 C2D1 EFG Enclosures
- Enclosure Type 4
- NEMA 4, 7B[Ⓛ]CD, 9EFG

Materials

- Main Enclosure and Heads Copper Free Aluminum alloy with Baked Powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- Attachment fittings copper-free aluminum
- External hardware 316 Stainless Steel
- EBSEL reflectors EXIT accessory aluminum with white paint

Notes

- Ⓛ Main EBS unit is CID1 Grp B (Suitable Zone 1 IIB+H2) with attached EBSHK heads or no heads; with attached EBSEL heads unit is CID1 Groups CD (Suitable Zone 1 IIB, IIA)
- Ⓛ See VSL Series Photometry Color Graphs; 5000° Kelvin is typical ("sunlight")
- Ⓛ Based on published tungsteon/incandescent data EBSEL Heads 300% brighter; EBSHK Heads 500% brighter



EBS Unit with HK Type Heads and Integral Push-To-Test



EBS Unit with EL Type Heads and Integral Push-To-Test



EBS Unit with EL Type Head and Exit plus HK Head with remote Push-To-Test

LIGHTING



EBS SERIES

EMERGENCY BATTERY SYSTEM – LOGIC & COMPONENTS

Catalog Number Logic		<u>EBS23DH</u>	-	<u>P</u>		<u>T</u>		<u>A</u>		<u>D</u>
EBS23DH	Series Constant 120-277V 50/60Hz 23W Dual-Head (Remote or Attached)									
Test Options										
P	Push-To-Test on Enclosure									
R	Remote Push-To-Test Station (EBS-PTT shipped separately)									
N	None - ordered separately or breaker controlled									
Time Delay Option										
T	Power Resumption Emergency Time-delay (Factory set approx. 15 min.) 120 thru 277V									
N	No Time-Delay									
Luminaire Head Options ①②										
N	No heads - For Remote Heads Ordered Separately									
A	2 EBSHK1030 Heads Factory Attached									
B	2 EBSEL1030 Heads (Less Guards) and Fittings for Attachment									
BG	2 EBSEL1030 Heads with Guards and Fittings for Attachment									
BE	2 EBSEL1030 Heads with 1 Guard and 1 HEXA-100 EXIT and Fittings for Attachment									
C	1 EBSHK1030 Head Attached and 1 EBSEL1030 Head (Less Guard) and Fittings for Attachment									
CG	1 EBSHK1030 Heads Attached and 1 EBSEL1030 Head with Guard and Fittings for Attachment									
CE	1 EBSHK1030 Heads Attached and 1 EBSEL1030 Head with HEXA-100 EXIT and Fittings for Attachment									
D	1 EBSHK1030 Only (2nd Head Remote - Ordered Separately)									
E	1 EBSEL1030 Only Less Guard and Fittings for Attachment (2nd Head Remote - Ordered Separately)									
EG	1 EBSEL1030 Only with Guard and Fittings for Attachment (2nd Head Remote - Ordered Separately)									
EE	1 EBSEL1030 Only with HEXA100 EXIT and Fittings for Attachment (2nd Head Remote - Ordered Separately)									
Drain ③										
D	Group B Drain for Wet Applications including condensation from heat <-> cold cycling									
Blank	Not included									

① Main Enclosure nameplate does not reflect heads ordered; unit is Dual Marked with ratings dependent on heads attached. E.g. if No heads or EBSHK only head(s) attached then unit is C1D1 Groups BCD; if an EBSEL head is attached then unit is Groups CD.
 ② Units ordered with EBSHK heads are shipped with heads attached; EBSEL heads are shipped separately.
 ③ Drain packed in enclosure with vapor capsule.



Factory Sealed Remote LED Spot Light - Bottom Feed



Factory Sealed Remote LED Spot Light - Side Feed



Remote Push-To-Test Station



Remote LED Luminaire

EBS UNIT - BOTTOM DETAIL



- A Optional Push-To-Test
- B Optional Group B Drain
- C Standard Pilot Light
- D Entry for Remote P-T-T Station
- E Power Entry (also on top)

The EBS23 System is designed to power 2 Heads for operation (total attached or remote); each Head is approximately 30VDC, 10 Watts.



EMERGENCY BATTERY SYSTEM – PRE-CONFIGURED UNITS



LED
TECHNOLOGY

Class I, Div. 1&2, Groups B^①,C,D
Class I, Zone 1&2, Groups IIB+H2^①, IIA
Class II, Div. 1&2, Groups EFG
Class III
Enclosure Type 4 (NEMA 4, 7B^① CD, 9EFG)

File LR11713

ORDERING INFORMATION

Integral Push-To-Test		Remote Push-To-Test	
EBS System with Two EBSHK Heads ②③ CID1BCD			
Integral PTT, Two EBSHK	Integral PTT, TDR , Two EBSHK	Remote PTT, Two EBSHK	Remote PTT, TDR , Two EBSHK
EBS23DH-PNA	EBS23DH-PTA	EBS23DH-RNA	EBS23DH-RTA
EBS System with Two EBSEL Heads with Guards ②③ CID1CD			
Integral PTT, Two EBSEL Heads w/ Guards	Integral PTT, TDR , Two EBSEL Heads w/Guards	Remote PTT, Two EBSEL Heads w/Guards	Remote PTT, TDR , Two EBSEL Heads w/Guards
EBS23DH-PNBG	EBS23DH-PTBG	EBS23DH-RNBG	EBS23DH-RTBG
EBS System with One EBSHK Head & 1 EBSEL Head with Guard ②③ CID1CD			
Integral PTT, One EBSHK & One EBSEL Head w/Guard	Integral PTT, TDR , One EBSHK & One EBSEL Head w/Guard	Remote PTT, One EBSHK & One EBSEL Head w/Guard	Remote PTT, TDR , One EBSHK & One EBSEL Head w/Guard
EBS23DH-PNCG	EBS23DH-PTCG	EBS23DH-RNCG	EBS23DH-RTCG
EBS System with Two EBSEL Heads One with EXIT ②③ CID1CD			
Integral PTT, Two EBSEL Heads, One w/EXIT, One w/ Guard	Integral PTT, TDR , Two EBSEL Heads One w/EXIT, One w/Guard	Remote PTT, Two EBSEL Heads, One w/EXIT, One w/Guard	Remote PTT, Two EBSEL Heads, One w/EXIT, One w/Guard
EBS23DH-PNBE	EBS23DH-PTBE	EBS23DH-RNBE	EBS23DH-RTBE
EBS System with One EBSHK Head & One EBSEL Head with EXIT ②③ CID1CD			
Integral PTT, One EBSHK Head, One EBSEL w/EXIT	Integral PTT, TDR , One EBSHK Head, One EBSEL w/EXIT	Remote PTT, One EBSHK Head, One EBSEL w/EXIT	Remote PTT, TDR , One EBSHK Head, One EBSEL w/EXIT
EBS23DH-PNCE	EBS23DH-PTCE	EBS23DH-RNCE	EBS23DH-RTCE
EBS System Only for Remote Heads (order two separately) ②③ CID1BCD			
Integral PTT, No Heads	Integral PTT, TDR , No Heads	Remote PTT, No Heads	Remote PTT, TDR , No Heads
EBS23DH-PNN	EBS23DH-PTN	EBS23DH-RNN	EBS23DH-RTN



① Main EBS unit is CID1 Group B (Suitable Zone 1 IIB+H2) with attached EBSHK heads or no heads; with attached EBSEL heads unit is CID1 Groups CD (Suitable Zone 1 IIB, IIA)
② Use catalog logic for single attached head models and order required remote 2nd head separately. Note, for EXIT applications EBSEL heads must be ordered without guards.
③ PTT = Push-To-Test; TDR = Time Delay Relay (prox 15 minutes after power resumption).

LIGHTING

EBS SERIES



EMERGENCY BATTERY SYSTEM – REMOTE HEADS & ACCESSORIES



EBSSEL Shown with Exit Accessory

EBSSEL1030 REMOTE HEADS WITH MOUNT (FACTORY SEALED)				CID1CD; C2D1EFG	
10W 30VDC	PENDANT 3/4"①	CEILING 3/4"①	WALL 3/4"①	STANCHION 1-1/2"②	
With Guard	EBSSEL1030A2G	EBSSEL1030X2G	EBSSEL1030B2G	EBSSEL1030D4G	
Without Guard③	EBSSEL1030A2	EBSSEL1030X2	EBSSEL1030B2	EBSSEL1030D4	

EBSSEL1030 COMPONENTS & ACCESSORIES – DESCRIPTION	CATALOG NUMBER
EBSSEL 10W 30V Head Only with LED's, Less Mount and Guard	EBSSEL1030
Guard	EMG1
Red Guard – used to signify remote fixture is for Emergency	EMG1-R③
EXIT Accessory – 3-sided white painted aluminum	HEXA-100③
Dome Reflector	ERSD15
Angle Reflector	ERA15
Sealed Fittings Set for attachment of Pendant EBSSEL to EBS23HD-xxx	EBS-AHFS
Replacement Globe and Support Assembly	EMGS1



EBSSEL1030



EMG1



EMG1-R



ERSD15



ERA15

EMGS1



MOUNTING BOXES				
CATALOG NUMBER				HUB SIZE
PENDANT	CEILING	BRACKET	STANCHION	
EZA2	EZX2	EZB2	-	3/4"
EZA3	EZX3	EZB3	-	1"
-	-	-	EZD4②	1-1/4" / 1-1/2"

① For 1" pendant, ceiling and wall hubs, substitute "3" for "2" in catalog number; example: EBSSEL1030A3G.

② Stanchion conduit hub size supplied is 1-1/2" with 1-1/2" to 1-1/4" reducer for 1-1/4" mounting.

③ Order fixture without guard for use with HEXA-100 EXIT Accessory, or to order EMG1-R Red Guard.

④ For EBSSEL with Mount Dimensions, see EMI15 series in lighting section.

EBSHK1030 10W 30V HEADS, COMPONENTS & ACCESSORIES		CID1BCD; C2D1EFG	
DESCRIPTION		CATALOG NUMBER	
EBSHK Head Only with LED's – Requires Field Seal①		EBSHK1030	
EBSHK Head with ADJUSTABLE FACTORY SEALED "C" fittings set		EBSHK1030-RFSC	
EBSHK Head with ADJUSTABLE FACTORY SEALED "L" fittings set		EBSHK1030-RFSL	
Sealed Fittings Set for attachment of EBSHK to EBS23DH-xxx		EBS-AHFS	

① Seal purchased separately appropriate of area of use

EBS23DH SERIES ACCESSORIES – DESCRIPTION	CATALOG NUMBER
Remote Push-To-Test Station Group B 3/4" Feed-Thru w/Close Up Plug①	EBS-PTT
Remote Push-To-Test Station with Lock Off, Group B 3/4" Feed-Thru①	EBS-PTT-LO
Lock-Off for Integral Push-To-Test	G010502
Sealed Fittings Set for attachment of EBSHK to GEBC-2 or GEBL-2	EBS-AHFS
Replacement Battery Pack and Electronics	KLBP01
Replacement Vapor Capsule for corrosion protection	EBS-VC

① EBS23DH requires conduit seals (purchased separately) exiting enclosure within 18"; EBS-PTT contains a N.C. contact and is Factory Sealed for C&D and up to 5' for Group B.



EBSHK1030



EBSHK1030-RFSL



EBSHK1030-RFSC



EBS-PTT



EMERGENCY BATTERY SYSTEM – ELECTRICAL & TEMPERATURE DATA



LED 10W EBSHK1030



ZONAL LUMEN SUMMARY		
ZONE	LUMENS	FIXT%
0-30	254	27.9%
0-40	423	46.3%
0-60	781	85.5%
0-90	913	100.0%
90-120	0	0.0%
90-130	0	0.0%
90-150	0	0.0%
90-180	0	0.0%
0-180	913	100.0%

Absolute Photometry
 Total Luminaire Efficiency = N.A.%
 Spacing to Mounting Height Ratio 2.1

EMERGENCY MODE LUMENS			
05 Min.	99.1%	905	Lumens
45 Min.	99.4%	871	Lumens
90 Min.	95.3%	871	Lumens

LED 10W EBSEL1030



ZONAL LUMEN SUMMARY		
ZONE	LUMENS	FIXT%
0-30	180	16.7%
0-40	344	31.8%
0-60	758	70.1%
0-90	1067	98.7%
90-120	11	1.0%
90-130	13	1.2%
90-150	14	1.3%
90-180	14	1.3%
0-180	1081	100%

Absolute Photometry
 Total Luminaire Efficiency = N.A.%
 Spacing to Mounting Height Ratio 2.1

EMERGENCY MODE LUMENS			
5 Min.	94.4%	102 Lumens	
45 Min.	91.3%	987 Lumens	
90 Min.	89.3%	966 Lumens	

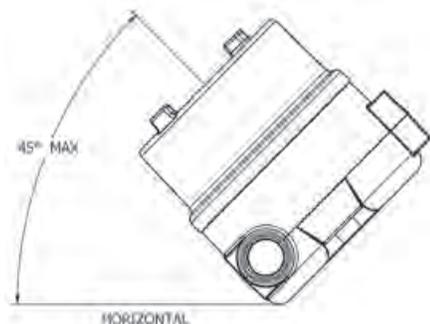
EBS23DH ELECTRICAL DATA						
CATALOG NUMBER	INPUT**			OUTPUT**		
	VOLTAGE	WATTS	CURRENT	VOLTAGE	WATTS	CURRENT
EBS23DH	120-277VAC	7.5	.1 A	33VDC	23	700mA

** Figures nominal. Current is 350mA to each of 2 heads (2 heads are required for proper operation, remote or attached).

THERMAL PERFORMANCE DATA					
CATALOG NUMBER	AMBIENT	CID1	CID1	SUITABILITY	SUPPLY WIRE
EBS23DH	45°C	T6	EFG	0-45°C	75°C
EBSEL1030	55°C	T6	EFG	-40 to 40°C	75°C
EBSHK1030	55°C	T6	EFG	-40 to 40°C	75°C

4 Head EBS option:

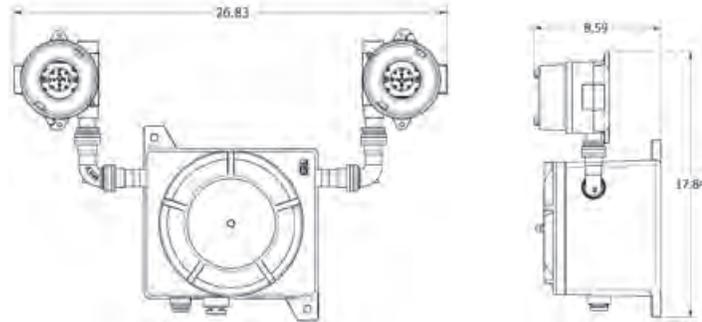
EBS units are designed for 2 head operation and will provide the lumens noted at right. However, 4 heads can be connected and will operate for 90 Minutes at half the published lumen values. The EBSHK1030 would provide 456 lumens; the EVSEL1030 540 lumens. Instructions for wiring are included with the main EBS unit.



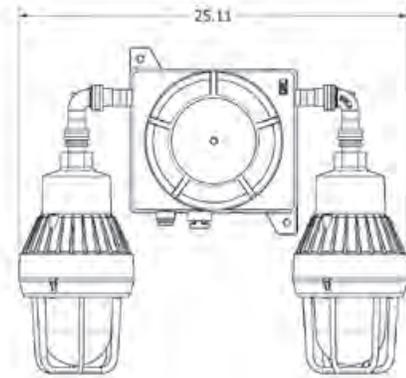
EBSHK Heads can be aimed up to 45 above horizontal – if flush on wall will require spacing out.



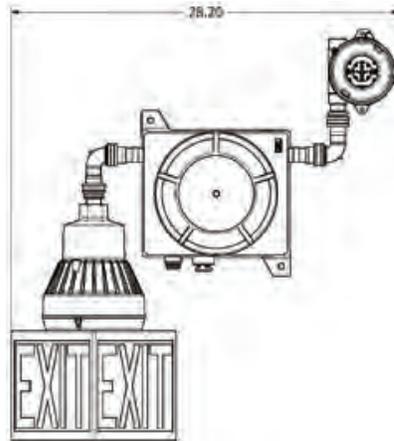
EMERGENCY BATTERY SYSTEM – DIMENSIONS & WEIGHTS



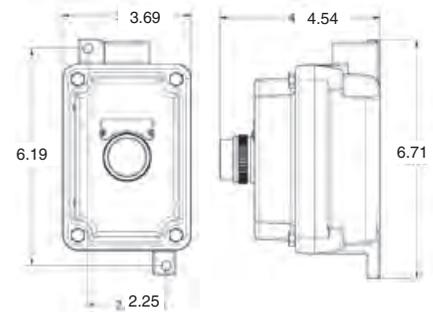
Dimensions - EBS with HK Heads



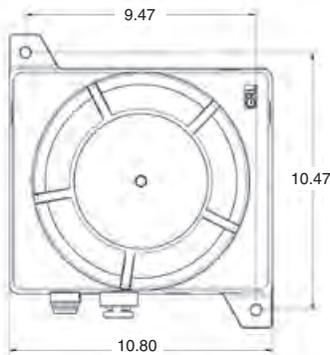
Dimensions - EBS with EL Heads



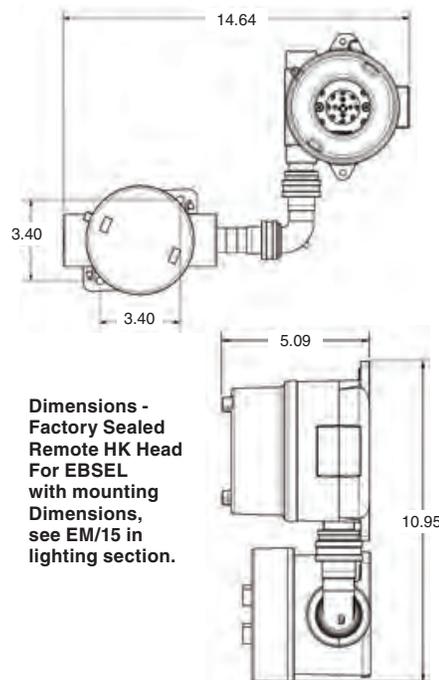
Dimensions - EBS with EL-EXIT & HK Heads



Dimensions - Remote Test Station



Dimensions - EBS Main Unit



Dimensions -
Factory Sealed
Remote HK Head
For EBSEL
with mounting
Dimensions,
see EM/15 in
lighting section.

WEIGHTS (SHIPPING) INDIVIDUAL AND COMBINATIONS [Ⓞ]	LBS.
EGS23DH Main Unit Only	36.6
EBSEL1030 Pendant Head Only w/ Fittings Set	12.3
EBSHK1030 Head Only w/ Fittings Set	5.0
EBSHK1030-RFSC (or RFSL)	11.0
EBS-PTT	3.0
EBS-AHFS Factory Sealed Fittings Set	0.6
EBS23DH & 1 EBSHK w/ Fittings	41.6
EBS23DH & 2 EBSHK w/ Fittings	46.6
EBS23DH & 1 EBSEL w/ Fittings	48.9
EBS23DH & 2 EBSEL w/ Fittings	61.2
EBS23DH & 1 EBSEL & 1 EBSHK w/ Fittings	53.9

[Ⓞ] EBSEL Heads ship separately