

# C1D1 FLOOD - INTRODUCTION & LOGIC



#### PETRO KR/IG/H1

## **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 luminairies 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

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

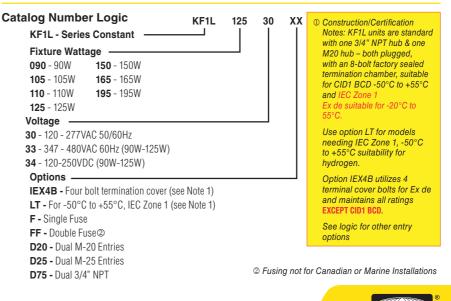
IEC Ex Rated model (w/IEX or IEX4B suffix) Zone 1, Zone 21 The bar have inder (where on texts string) when it was a string when it was a string when it is the string when it is the string string is the string strin Certificate IECEX CSA 14.0010 ATEX Certificate SIRA14ATEX1159X



Dark Sky Visor **KF1L-DARK** 

Suitable for Paint Sprav

\* 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



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HUBBELI L45 Harsh & Hazard

## **KILLARK LIGHTING**



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			120-277VAC	0.72-0.31												
KF1L09033		90	347-480VAC	0.25-0.18	7182	T6	T6	(EFG)	6	T6	T5	160-75	175-90	60100	270000	
KF1L09034			120-250VDC	0.72-0.28												
KF1L10530			120-277VAC	0.85-0.37												
KF1L10533		105	347-480VAC	0.29-0.21	8362	T6	T6	(EFG)	6	T6	T5	160-76	175-91	60100	270000	
KF1L10534			120-250VDC	0.85-0.33												
KF1L11030			120-277VAC	0.95-0.41												
KF1L11033	46.00 / 20.87	110	347-480VAC	0.33-0.24	10590	T6	T6	(EFG)	6	T6	T5	160-77	175-92	72600	278000	
KF1L11034			120-250VDC	0.95-0.37												
KF1L12530			120-277VAC	1.10-0.48												
KF1L12533		125	347-480VAC	0.38-0.28	11590	Т6	Т6	(EFG)	6	Т6	T5	160-78	175-93	72600	278000	
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	
D Yellow highlighted models have extra high lumen LED's.							© 55°C C2D1 EFG T3C Aiming Figure "B", 55° C2D1 EF T3A Aiming Figure "A"									

1) **Yel** <sup>(2)</sup> See logic for 347-480V availability

3 Amperage measured at 120VAC; 277VAC calculated

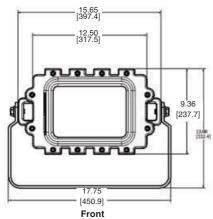
⊕ Use minimum 75° Supply Wire @40°C Ambient; 90°@55°C Ambient

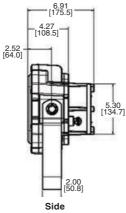
© CID1 40°/55° & C2D1 40°C use Aiming Figure "A" below.

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

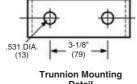
\*\* TM-21 based values require very long duration testing. IES TM-21 "official reported" is based on at 8,000 to 10,000 hours of LED chip manufacturer's LM-80 Testing at printing.

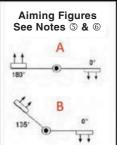
### Dimensions





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K4040 Wall Bracket



HUBBELL Harsh & Hazard

KFL MOUNTS AND ACCESSORIES <sup>®</sup>							
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 <sup>3</sup>						
KF1L-D00R	Replacement Door and Lens Assembly						

① 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.

3 Designed to eliminate uplight when aimed at 45°.



Detail

