



## C1D2 FLOOD – INTRODUCTION &amp; LOGIC

**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**

Supplemental **20KA/10KV Surge Protection** is **standard** (for 120-277 VAC models)  
**10KA/10KV Surge Protection** (for 347-480 VAC)

- 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

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

CSA 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 Certificate  
 CML 14ATEX3087/4088

**PATENTED LUMINAIRE DESIGN**

KFL with KFS-6 Slipfitter mount on 2" pipe

Dark Sky Visor  
 KFL-DARK

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

**Catalog Number Logic**

KFL - 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 (60W to 125W models)@  
 34 - 120 - 250VDC (60W to 125W models)

Options

**PL - Polycarbonate Lens**

F - Single Fuse①

FF - Double Fuse②

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)



Consult website for current list of approved luminaires

**Construction Note:**

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

① Fusing not for Canadian or Marine Installations

② 347V-480V +40°C Max



KFL SERIES

# KILLARK

## C1D2 FLOOD – ORDERING INFORMATION & TECHNICAL DATA

| ORDERING INFORMATION AND AMBIENT SUITABILITY |                   |       |            |           |                      | C1D2④ |      | C1D2④<br>SIMULTANEOUS |      | C2D1④     |           | IEC ZONE 2<br>④ |      | IEC ZONE 21 |      | L70   |            |
|----------------------------------------------|-------------------|-------|------------|-----------|----------------------|-------|------|-----------------------|------|-----------|-----------|-----------------|------|-------------|------|-------|------------|
| CATALOG NO.①                                 | WEIGHT<br>LBS./KG | WATTS | VOLTAGE    | AMPS<br>② | DELIVERED<br>LUMENS③ | 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 /<br>13.61  | 60    | 120-277VAC | 0.50-0.20 | 6111                 | T6    | T5   | T3C                   | T3C  | T3C (EFG) | T3C (EFG) | T6              | T5   | 145         | 160  | 60100 | 270000     |
| KFL07030                                     |                   | 70    | 120-277VAC | 0.60-0.30 | 9742                 | T6    | T5   | T3C                   | T3C  | T3C (EFG) | T3C (EFG) | T6              | T5   | 145         | 160  | 72600 | 278000     |
| KFL07530                                     |                   | 75    | 120-277VAC | 0.60-0.30 | 7454                 | T6    | T5   | T3C                   | T3C  | T3C (EFG) | T3C (EFG) | T6              | T5   | 145         | 160  | 60100 | 270000     |
| KFL08530                                     |                   | 85    | 120-277VAC | 0.70-0.30 | 10840                | T6    | T5   | T3C                   | T3C  | T3C (EFG) | T3C (EFG) | T6              | T5   | 145         | 160  | 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         | 160  | 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         | 160  | 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         | 160  | 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         | 160  | 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) | -         | T5              | T5   | 160         | 160  | 60300 | 190000     |
| KFL16530                                     |                   | 165   | 120-277VAC | 1.38-0.60 | 19220                | T5    | -    | T3C                   | -    | T3C (EFG) | -         | T5              | T4   | 160         | 160  | 72600 | 278000     |
| KFL19530                                     |                   | 195   | 120-277VAC | 1.63-0.70 | 21940                | T5    | -    | T3C                   | -    | T3C (EFG) | -         | T5              | T4   | 160         | 160  | 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

### KFL MOUNTS AND ACCESSORIES①

| 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.                            |
| KFLG⑤          | Wire Guard, 316 Stainless Steel (not used with KFL-DARK)                                                       |
| VMSC10②        | 10' Stainless Steel Safety Cable with loop grip                                                                |
| KFL-DARK③⑤     | Dark Sky Visor, White Painted Aluminum (not used with KFLG)                                                    |
| KFL-DOOR       | Replacement Door and Lens Assembly (for units w/o internal reflectors)                                         |
| KFL-DOOR2④     | Replacement Internal Reflector and Lens Assembly                                                               |
| KFL-STND       | 8 Foot Extendable Portable Stand                                                                               |

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

⑤ KFLG and KFL-DARK cannot be used together.

### Dimensions

