



## 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

#### 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

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 -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

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)

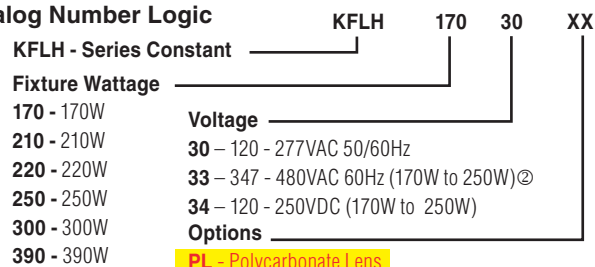
#### PATENTED LENS and REFLECTOR DESIGN



KFLH Luminaire

Dark Sky Visor  
KFLH-DARK

#### 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

Ⓢ 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      | DELIVERED 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   | 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   | 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   | 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   | 120-277VAC | 2.48-1.07 | 37030            | T4A (T4)    | T4   | -                 | -    | -    | -    | 60300 | 107000     |
| KFLH39030                                    |                | 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

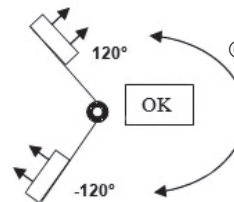
② Amperage measured at 120VAC; 277VAC calculated

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



### KFLH 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. Use with KFS-6.                             |
| KFLG           | Wire Guard, 316 Stainless Steel (order 2 per fixture)                                                          |
| VMSC10②        | 10' Stainless Steel Safety Cable with loop grip                                                                |
| KFLH-DARK③     | 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°.



KFS-6  
Slipfitter



KFCB  
Cross Arm Mount



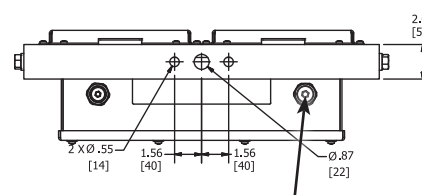
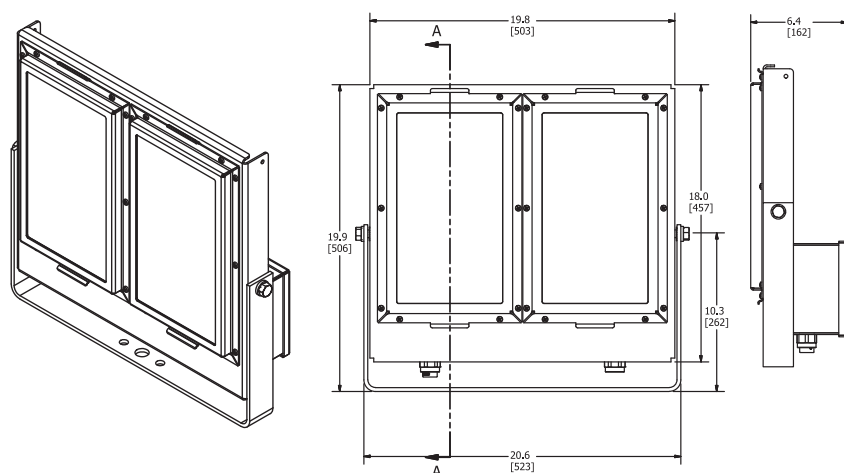
4041  
Tenon Fitting



K4040  
Wall Bracket



KFWB  
Wall/Pipe Bracket



2-M20 slip holes supplied with 3/4" NPT adapters with one plugged.