



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=GREENSM
HUBBELL SUSTAINABILITY INITIATIVE



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
 NEMA 3, 4X, IP66



IECEx pending

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 278,000 maintenance free hours to 70% initial lumens
- Ambient suitability -40°C to 55°C up to 250W^② 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

KFLH - Series Constant	KFLH	170	30	XX
Fixture Wattage				
170 - 170W				
210 - 210W				
220 - 220W				
250 - 250W				
300 - 300W				
390 - 390W				
Voltage				
30 – 120 - 277VAC 50/60Hz				
33 – 347 - 480VAC 60Hz (170W to 250W)②				
34 – 120 - 250VDC (170W to 250W)				
Options				
PL - Polycarbonate Lens				
F - Single Fuse①				
FF - Double Fuse①				
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				

Construction Note:

Standard with 2 3/4" NPT entries with one plugged

Models for dual metric entries have slip holes with metric locknuts and certified blanking plugs

① Fusing not for Canadian or Marine Installations

② 347V-480V +40°C Max



C1D2 FLOOD – ORDERING INFORMATION & TECHNICAL DATA

ORDERING INFORMATION AND AMBIENT SUITABILITY				C1D2 (C122)⑤		C1D2 ⑤⑦ SIMULTANEOUS		C2D1⑤⑦		LED LIFE⑧	
CATALOG NO.①	WATTAGE	AMPS 120/277②③	DELIVERED LUMENS	40C	55C⑥	40C	55C⑥	40C	55C⑥	LM70 40°C⑧ TM-21/ CALCULATED	LM70 55°C⑧ TM-21/ CALCULATED
KFLH17030	170	1.46/0.63	21620④	T4A (T4)	T4	T4	T3C	T4	T3C	72600/278000	72600/278000
KFLH21030	210	1.75/0.75	21220	T4A (T4)	T4	T4	T3C	T4	T3C	60100/270000	60100/137000
KFLH22030	220	1.88/0.81	26970④	T4A (T4)	T4	T4	T3C	T4	T3C	72600/278000	72600/278000
KFLH25030	250	2.17/0.94	30950④	T4A (T4)	T4	T4	T3C	T4	T3C	72600/278000	72600/278000
KFLH30030	300	2.48/1.07	37030	T4A (T4)	NA	NA	NA	NA	NA	60300/107000	NA
KFLH39030	390	3.30/1.43	40410④	T3C (T3)	NA	NA	NA	NA	NA	36300/109000	NA

① Shipping weight Approx. 25 lbs (11.3 kg)

② Cat. Nos. are 120 through 277VAC 50/60Hz; see logic for 347-480V or 125-250VDC input

③ Amperage measured at 120VAC; 277VAC calculated

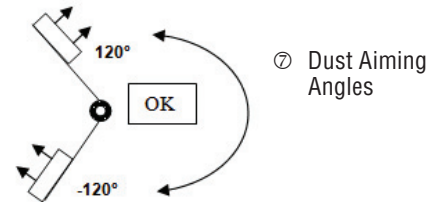
④ Extra High Lumens per Watt LED Modules

⑤ Use 75°C Supply Wire @ 40°C Ambient; 90°C Wire @ 55°C Ambient

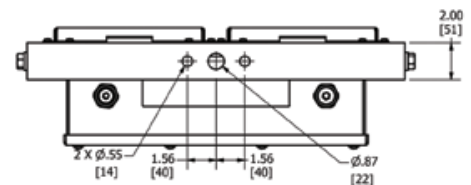
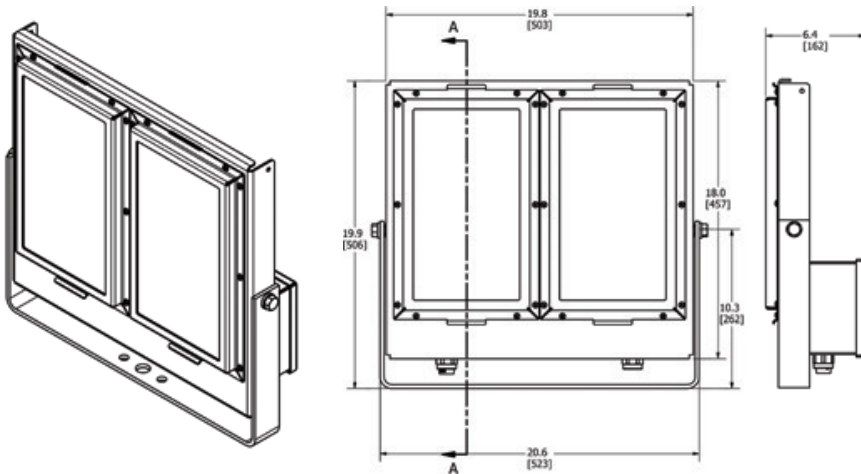
⑥ 55°C only for 170W through 250W at 120-277VAC 50/60Hz or 125-250VDC; not 480VAC

⑦ For Dust Applications, limit aiming angle between 120° and -120° to minimize buildup - see figure at right

⑧ 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.



⑦ Dust Aiming Angles



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.
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)

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°.

Typical Weights Including Yoke
– KFLH Series 25lbs (11.3kg)



KFS-6
Slipfitter



KFCB
Cross Arm Mount



KFWB
Wall/Pipe Bracket



K4040
Wall Bracket



4041
Tenon Fitting



CERTI/LITE[®] DESIGN

LIGHTING DESIGN SOFTWARE

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- **Modern “Ribbon” Windows Interface with “Real Time” Calculations**
- **Easily import/export of CAD files (DWG/DXF/PDF)**
- **Enhanced photometric database with luminaire images and wireframes**
- **Ability to draw round or complex rooms and grids**
- **False Colors to indicate “Relative Brightness”**

See “Lighting Software link” at www.hubbell-killark.com to download

HKSB-KFLH 06-15

KILLARK[®]

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