

COMPACT HAZARDOUS LOCATION LED LUMINAIRE

DESCRIPTION

The HCF Series of low and mid power compact hazardous location luminaires have been developed for difficult applications with expected exposure to flammable gases, vapours, combustible particles and ignitable fibres.

Designed as a viable alternative to legacy gaseous luminaires providing substantially greater reliability, longevity and energy savings. The HCF Series was conceived in tune with the requirement for very low maintenance and offers exceptional performance in a value added package.

Workplace safety is paramount in dangerous environments and the HCF Series is available with wire guards for added protection where direct physical contact with the fixture may occur. The HCF Series is available with 6 mounting options and a standard drop down lens or optional aluminized reflectors, with a limited protrusion it is suitable for low ceiling applications.

The HCF hazardous location luminaire is constructed of low copper content cast Aluminum which is then precision machined and coated with a proprietary powder coating finish for high strength and durability in exceptionally harsh and corrosive applications. The HCF Series is ABS compliant with a PDA recognition and fully sealed to NEMA 4x/IP66 standards allowing it to reliably operate in marine environments and can withstand most wash down procedures.

The HCF Series LED luminaires with on board digital drivers with 3 way power protection provide stable performance and guard against light depreciation. Proven performance under severe conditions with a robust design and best in class COB or SMD LED engines. The LEDRAYS HCF Series is designed with the same prodigious attention to detail as the entire line of hazardous location luminaires.

The HCF Series offers exceptional value by benefiting from pragmatic cost reduction efforts including production line leveraging and by using cross platform components.



APPLICATIONS

- Mining/Extraction Sites
- Petrochemical
- Paints/Inks/Coatings Production
- Test Chambers
- Service Tunnels
- Grain Production Storage
- Pulp & Paper
- Water & Waste Water
- Offshore
- Food & Beverage Processing

CERTIFICATES & RATINGS
Class I, Division 1, Groups C,D
Class I, Division 2, Groups A,B,C,D
Class I, Division 2, Groups A,B,C,D
Class II, Division 1, Groups E,F,G
Class II, Division 2, Groups E,F,G
Class III
UL1598 and UL1598A
UL844
CSA C22.2 No. 137/No.250.0
T4 Temperature Code
NEMA 4X, IP66
IK10
Marine and Wet Locations
ABS under PDA Provisions
IECEX
ATEX

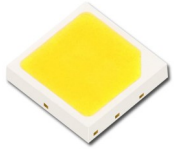
HCF SERIES SPECIFICATIONS

FIXTURE SERIES	POWER	LED TYPE	CCT	DISTRIBUTION	EXIT LUMEN RANGE	OPERATING VOLTAGE	IP RATING	DIMENSIONS
LR-HCF-010A-XX	10W	COB (SHO)	4500K (4000-6500K avail)	*40°/60/90/120 or 140°	1000-1100lm	AC90-277V	IP66 (A HOUSING)	DØ172.9 x L408.9mm DØ6.81 x 16.1"
LR-HCF-020A-XX	20W	COB (SHO)	4500K (4000-6500K avail)	*40°/60/90/120 or 140°	2000-2200lm	AC90-277V	IP66 (A HOUSING)	DØ172.9 x L408.9mm DØ6.81 x 16.1"
LR-HCF-030A-XX	30W	COB (SHO)	4500K (4000-6500K avail)	*40°/60/90/120 or 140°	3000-3300lm	AC90-277V	IP66 (A HOUSING)	DØ172.9 x L408.9mm DØ6.81 x 16.1"
LR-HCF-040A-XX	40W	COB (SHO)	4500K (4000-6500K avail)	*40°/60/90/120 or 140°	4000-4400lm	AC90-277V	IP66 (A HOUSING)	DØ172.9 x L408.9mm DØ6.81 x 16.1"
LR-HCF-040B-XX	40W	SMD (FLO)	4500K (4000-6500K avail)	*40°/60/90/120 or 140°	5600lm	AC90-277V	IP66 (B HOUSING)	DØ292.1 x L408.9mm DØ11.5 x 16.1"
LR-HCF-060B-XX	60W	SMD (FLO)	4500K (4000-6500K avail)	*40°/60/90/120 or 140°	8400lm	AC90-277V	IP66 (B HOUSING)	DØ292.1 x L400.9mm DØ11.5 x 16.1"
LR-HCF-080B-XX	80W	SMD (FLO)	4500K (4000-6500K avail)	*40°/60/90/120 or 140°	11200lm	AC90-277V	IP66 (B HOUSING)	DØ292.1 x L408.9mm DØ11.5 x 16.1"

* Optional Distribution Configurations



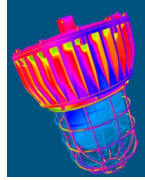
FEATURES



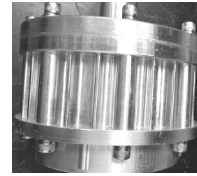
EMC SMD PACKAGE
10-40W (A HOUSING)



CERAMIC COB
40-80W (B HOUSING)



SUPERIOR THERMAL
PERFORMANCE



MACHINE HOUSING &
316 STAINLESS WIRE



HIGH EFFICIENCY
DRIVERS

PRODUCT IMAGES

A HOUSING



B HOUSING



ORDERING INFO:

LR-HCF-060B-SO-50-G2--SFM-

ELECTRICAL SPECIFICATIONS

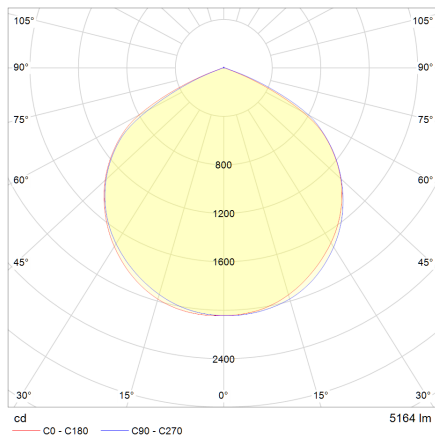
- Power Input: AC100-277V
- AC180-528V (Option)
- Power Factor: ≥95
- THD: ≤17% @ full Load

<p>POWER</p> <p>10W-010A 20W-020A 30W-030A 40W-040A 40W-040B 60W-060B 80W-080B</p>	<p>EFFICACY</p> <p>100/110lm/w-SO (10-40W A HOUSING) 130lm/w-SO 140lm/w-HO (40-80W B HOUSING)</p>	<p>CCT</p> <p>4000k-40 4500k-45 5000k-50 6000k-60 6500k-65</p>	<p>DISTRIBUTION</p> <p>**40° REF-R4 **60° REF-R6 90° REF-R9 120° GLASSPLATE-G2 140° GLASSLENS-G4</p>	<p>OPERATING VOLTAGE</p> <p>100-277VAC-Blank 180-528VAC-HV</p>	<p>MOUNTING</p> <p>Surface Mount-SFM 25° stanchion-S25 90° stanchion-S90 90° wall mount-V90 # Rigid ceiling mount-EJB (#3/4" NPT) 12Deg. Pendant-P12</p>	<p>DIMMING *</p> <p>None-Blank PWM-01 1-10V-02 VAR RES-03 DALI-04 LEDIM-05 TEDIM-06 DMX-07</p>
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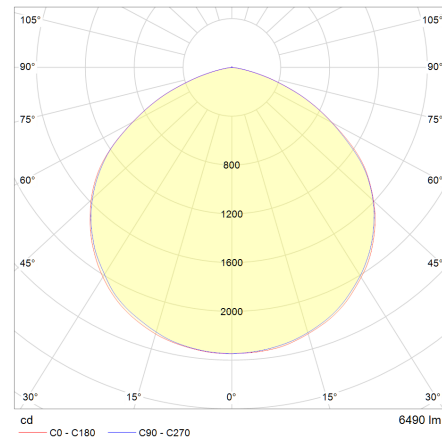
DIM Control: 0-5V, 0-10V, 1-10V, 0-20ma, 4-20ma, RS485, RS-232, PWM, RES, LEDIM, TEDIM, DMX512, DMX512/RDM, DALI, Custom
* LEDRAYS offers the following dimming options (Please note not all DIM methods apply to a particular product)

** Optional Distribution Configurations
REF=ALUMINIZED REFLECTOR
GLASSPLATE=90° SILICATE PLATE GLASS
GLASSLENS=DROP DOWN LENS

PHOTOMETRIC DISTRIBUTION



LR-HCF-040A 40W COB / G2 GLASSPLATE

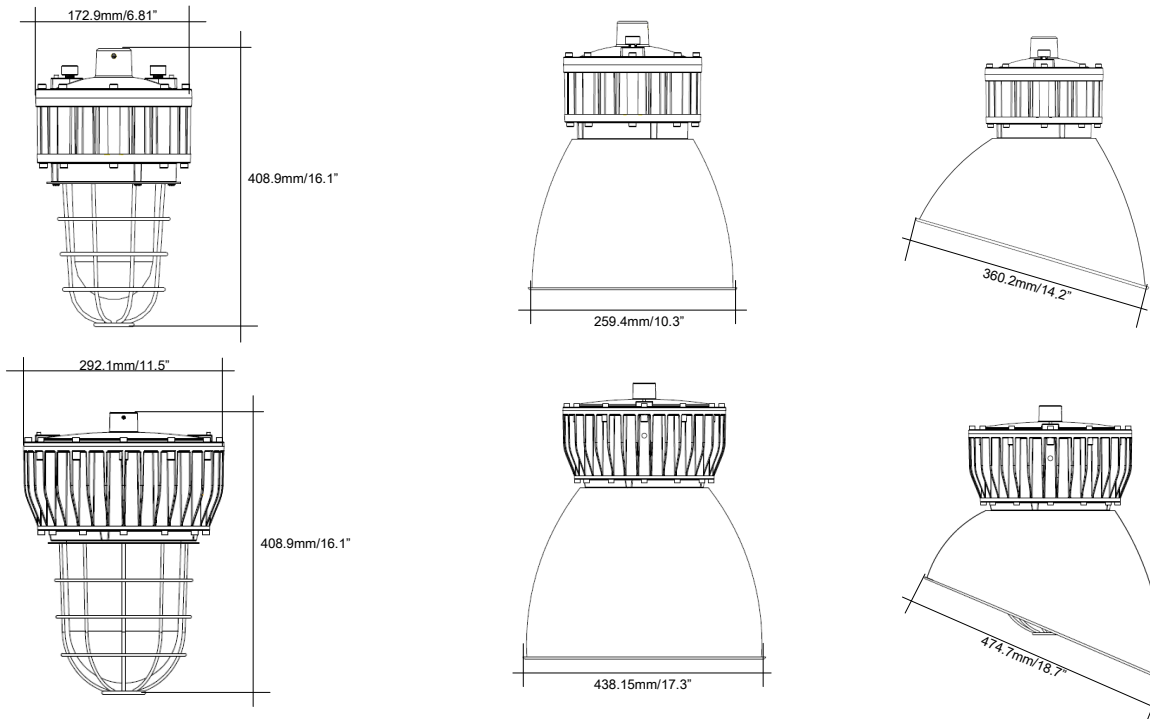


LR-HCF-040B 40W SMD / G2 GLASSPLATE





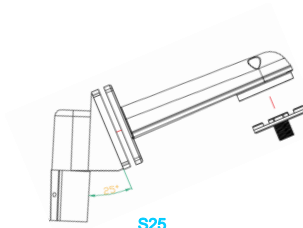
DIMENSIONS mm (± 1.1mm)



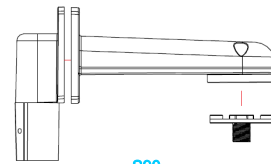
MOUNTING



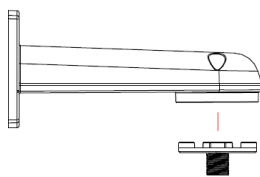
SFM



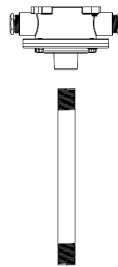
S25



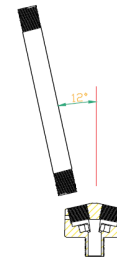
S90



W90



EJB



P12



The specifications in this brochure are representative and must not be interpreted as a guarantee of individual product performance and/or characteristics. LED RAYS Inc. has a policy of continuous advancements & development specifications may change without notice. Please contact your agent for updates.

514 484-8462
888 LEDLABS
(888.533.5227)

info@ledrays.com
www.ledrays.com