

HAZARDOUS LOCATION LINEAR LED LUMINAIRE



HLL X SERIES

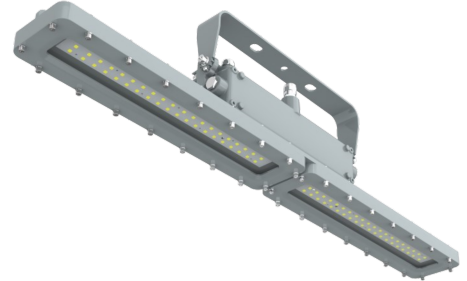
The LR-HLL X C1D1 series linear luminaire is designed to withstand hazardous locations in demanding applications with expected exposure to flammable gases, vapours, combustible dusts and ignitable fibers.

This ultra rugged low profile luminaire is designed for simple integration into new and retrofit hazardous locations as a direct replacement for legacy linear lighting systems with greatly surpassed efficacy and reliability. Captive 316 Type stainless hardware, an isolated driver enclosure and specific structure resonance abatement allow the HLL X series compatibility in applications where limited 3 Axis vibration is present.

The LR-HLL X hazardous location linear luminaire is constructed of a low copper content cast ADC12 Aluminum with a proprietary powder coating finish for high strength and durability in exceptionally harsh, high temperature and corrosive applications. The housing is fully sealed to IP66 standards allowing it to reliably operate in marine environments and can withstand most wash down procedures.

The HLL X are available in 6 power levels. Efficacies of >140lm/w are achieved by reducing light emission losses from thermal, electrical and optical systems. Multiple mounting options, lumen packages ranging from 4,200lm up to 16,800lm, input voltage options of 90-528VAC and available with various emergency internal back up options allow for great user versatility in hazardous atmospheres.

The HLL X Series LED luminaires with on board digital drivers with 4 way power protection and optional thermal roll back provide stable performance and guard against light depreciation. 3 way stand alone SPD are standard. Proven performance under severe conditions with a robust design and best in class SMD LED engines.



APPLICATIONS

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

HLL X SERIES SPECIFICATIONS

LISTED
UL844 / UL924 / UL1598A
CSA C22.2 No. 137
CSA C22.2 No. 250.0
Class I Division 1, Group C, D
Class I Division 2, Group A, B, C, D
Class II Division 1, Group E, F, G
Class II Division 2, Group E, F, G
Class III / Temp Code: T4
ATEX II 2 G Ex db op is IIB T4/T5 Gb
II 2 D Ex op is tb IIIC T135°C Db Marking
IECEX Ex db op is IIB T4/T5 Gb
Ex op is tb IIIC T135°C Db IP66
Marine & Wet Locations
NEMA 4X/ IP66
Ambient Temperature Range
-40°C to +60°C (-40°F to 140°F)
Temp Code: T4
(Derated above +40°C, contact factory.
High Temperature models available.)

FIXTURE SERIES	POWER	LED TYPE	CCT*	EFFICACY	LUMINOUS FLUX	DISTRIBUTION	OPERATING VOLTAGE	IP RATING	DIMENSIONS
LR-HLL-X-30W-XX-XX	30W	SMD Phillips Lumileds™	3000K-7000K	140lm/w	4200lm	60° or 120° ASYMMETRIC	AC90-277V AC180-508V	IP66	L590 x W140 x H207mm L23.23 " x 5.51 " x 8.15 "
LR-HLL-X-40W-XX-XX	40W	SMD Phillips Lumileds™	3000K-7000K	140lm/w	5600lm	60° or 120° ASYMMETRIC	AC90-277V AC180-508V	IP66	L590 x W140 x H207mm L23.23 " x 5.51 " x 8.15 "
LR-HLL-X-60W-XX-XX	60W	SMD Phillips Lumileds™	3000K-7000K	140lm/w	8400lm	60° or 120° ASYMMETRIC	AC90-277V AC180-508V	IP66	L1184 x W140 x H207mm L46.61 " x 5.51 " x 8.15 "
LR-HLL-X-80W-XX-XX	80W	SMD Phillips Lumileds™	3000K-7000K	140lm/w	11200lm	60° or 120° ASYMMETRIC	AC90-277V AC180-508V	IP66	L1184 x W140 x H207mm L46.61 " x 5.51 " x 8.15 "
LR-HLL-X-100W-XX-XX	100W	SMD Phillips Lumileds™	3000K-7000K	140lm/w	14000lm	60° or 120° ASYMMETRIC	AC90-277V AC180-508V	IP66	L1184 x W140 x H207mm L46.61 " x 5.51 " x 8.15 "
LR-HLL-X-120W-XX-XX	120W	SMD Phillips Lumileds™	3000K-7000K	140lm/w	16800lm	60° or 120° ASYMMETRIC	AC90-277V AC180-508V	IP66	L1184 x W140 x H207mm L46.61 " x 5.51 " x 8.15 "

* Standard CRI is 80Ra and 120° distribution / Please inquire for custom CRI or distribution

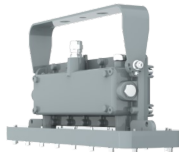
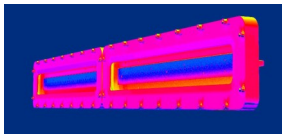
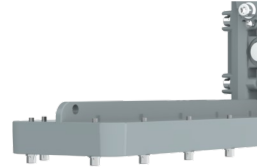


514 484-8462
888 LEDLABS
(888.533.5227)

info@ledrays.com
www.ledrays.com



FEATURES

HIGH PERFORMANCE
SMD LED ENGINESISOLATED DRIVER
ENCLOSURESUPERIOR THERMAL
PERFORMANCERUGGEDIZED ALUMINIUM
STRUCTUREHIGH EFFICIENCY
DRIVERS

PRODUCT IMAGES



ORDERING INFO: LR-HLL-X-080-SO-50-SF----

ELECTRICAL SPECIFICATIONS

1. Power Input: AC90-277V
2. AC180-528V (Option)
3. Power Factor: ≥ 98
4. THD: $\leq 14\%$ @ full Load

POWER
30W/2ft-030
40W/2ft-040
60W/4ft-060
80W/4ft-080
100W/4ft-100
120W/4ft-120

EFFICIENCY
140lm/w-SO
 $\geq 150\text{lm/w-HO}$

CCT
3000K-30
4000K-40
5000K-50
6000K-60
7000K-70

OPERATING VOLTAGE
100-277VAC-Blank
180-528VAC-HV
DC24V-DC

MOUNTING
Surface Ceiling/Wall-SF
Rigid Pendant-PD
Suspension Chain-SC

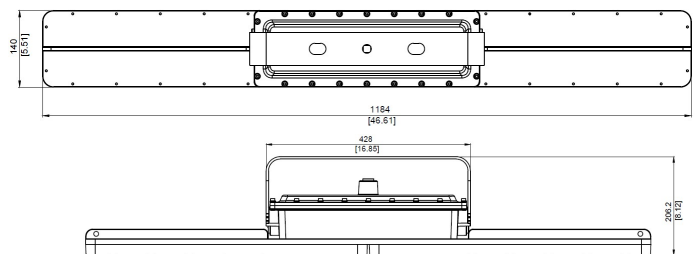
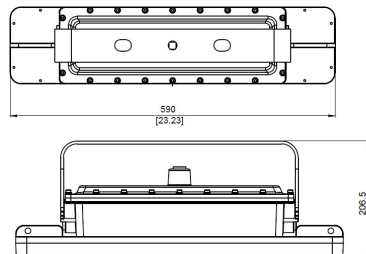
DIMMING *
None-Blank
PWM-01
1-10V-02
VAR RES-03
DALI-04
LEDIM-05
TEDIM-06
DMX-07
DMX/RDM-08

EM BACK UP
06-06W
12-12W
25-25W
(90 Min Runtime)

*DIM Control: 0-5V, 0-10V, 1-10V, 0-20ma, 4-20ma, RS485, RS-232, PWM, RES, LEDIM, TEDIM, DMX512, DMX512/RDM, DALI, Custom
*LED RAYS offers the following dimming options (Please note not all DIM methods apply to a particular product)

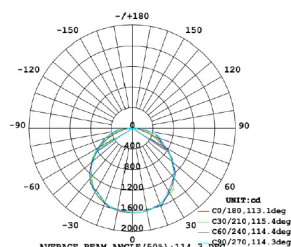
DIMENSIONS mm/ WEIGHTS kg/lbs ($\pm 0.4\text{kg}/\pm 0.88\text{lbs}$)

POWER	DIMENSIONS	NET WEIGHT
30 / 40W	L590 x W140 x H207mm L23.23" x 5.51" x 8.15"	14.4kg/31.6lbs
60 / 80 100 / 120W	L1184 x W140 x H207mm L46.61" x 5.51" x 8.15"	22.3kg/49lbs



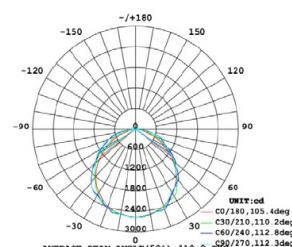
PHOTOMETRIC DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



30W (590mm/23.2") 120Deg.

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



60W (1184mm/46.6") 120Deg.

