

# MaxLite®

A NEW WAVE OF LIGHT



## HARSH & HAZARDOUS LOCATIONS TRAINING

APRIL 30th, 2020

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“The Global Hazardous location LED lighting market has been valued at \$3.45 billion in 2016, and is forecasted to grow at a **CAGR of 13.82%** to reach **\$7.50 billion** by 2022”

“LED captures a greater share of the market, by virtue of its ruggedness, reliability, longer shelf life, lower energy consumption and greater operating temperature range”



# KEY APPLICATIONS



OIL AND GAS



PAPER PROCESSING



PETRO-CHEMICAL



PHARMACEUTICAL



CHEMICAL



SHIPBUILDING



POWER PLANTS



TEXTILE



UTILITIES



WASTE WATER TREATMENT



MILITARY FACILITIES



PAINT FACILITIES

Class categorizes the type of material in the surrounding atmosphere

CLASS	HAZARDOUS MATERIAL IN SURROUNDING ATMOSPHERE
Class I	Flammable gases or vapors are present in the air in quantities sufficient to produce explosive or ignitable mixtures.
Class II	Combustible or conductive dusts are present.
Class III	Ignitable fibers or flyings are present, but not likely to be in suspension in sufficient quantities to produce ignitable mixtures, such as wood chips, cotton, flax and nylon. Group classifications are not applied to this class.

Division addresses whether the hazardous material is present under normal or abnormal operating conditions.

<b>DIVISION</b>	<b>PRESENCE OF HAZARDOUS MATERIAL</b>
Division 1	Substance referred to by class is present during normal conditions.
Division 2	Substance referred to by class is present only in abnormal conditions, such as a container failure or system breakdown.



Group defines the actual hazardous material in the surroundings.

GROUP	HAZARDOUS MATERIAL IN SURROUNDING ATMOSPHERE
Group A	Acetylene
Group B	Hydrogen, fuel and combustible process gases containing more than 30% hydrogen by volume or gases of equivalent hazard such as butadiene, ethylene, oxide, propylene oxide and acrolein.
Group C	Carbon monoxide, ether, hydrogen sulfide, morphine, cyclopropane, ethyl and ethylene or gases of equivalent hazard.
Group D	Gasoline, acetone, ammonia, benzene, butane, cyclopropane, ethanol, hexane, methanol, methane, vinyl chloride, natural gas, naphtha, propane or gases of equivalent hazard.
Group E	Combustible metal dusts, including aluminum, magnesium and their commercial alloys or other combustible dusts whose particle size, abrasiveness and conductivity present similar hazards in connection with electrical equipment.
Group F	Carbonaceous dusts, carbon black, coal black, charcoal, coal or coke dusts that have more than 8% total entrapped volatiles or dusts that have been sensitized by other material so they present an explosion hazard.
Group G	Flour dust, grain dust, flour, starch, sugar, wood, plastic and chemicals.

T1 to T6 temperature ratings represent the Maximum temperature the fixture will emit without igniting

DIVISION 1 & 2	IGNITION TEMPERATURE*
T1	450°C (842°F)
T2	300°C (572°F)
T2A	280°C (536°F)
T2B	260°C (500°F)
T2C	230°C (446°F)
T2D	215°C (419°F)
T3	200°C (392°F)

DIVISION 1 & 2	IGNITION TEMPERATURE*
T3A	180°C (356°F)
T3B	165°C (329°F)
T3C	160°C (320°F)
T4	135°C (275°F)
T4A	120°C (248°F)
T5	100°C (212°F)
T6	85°C (185°F)

- UL1598 - Luminaires certification
- UL1598A - Marine Grade certification
- UL844 - Hazardous locations (CxDx) Luminaires certification
- IEC 62262 – Protection against external mechanical impacts (IK code)
- ANSI C136.31-2010 - Vibration rating
- ASTM B117-19 - Corrosion resistance (salt spray testing)



- Growing market
- Pricing
- Broad Product Portfolio
- Lead times
  - Inventory on high-selling SKUs
  - 8 weeks delivery for non-stocked items (quantities 99 or less)
  - 10 –12 weeks delivery for non-stocked items (quantities 100 or more)

# MAXLITE PORTFOLIO AT A GLANCE



Flood Light CID1



Flood Light CID2



Linear CID1



Linear CID2



Highbay CID2



Lowbay - Jelly Jar CID2



High Output Flood CID2



Wall Pack CID2

## HL-LI (C1D1) Series

40W | 80W  
4,800 lm | 9,600 lm



## FEATURES:

- 3000K /4000K/5000K
- 120-277V / 347-480V
- Clear, Diffused and Narrow optics
- Battery back up options

## LISTINGS:

- DLC Premium
- Marine Grade
- Class I, Division 2, Groups A, B, C, D
- Class II, Division 1, Groups E, F and G
- Class II, Division 2, Groups F, G
- Class III, Division 1
- 5G vibration rating
- 1000 hours, salt spray testing
- IP66

## HL-LI (C1D2) Series

40W | 80W  
5,480 lm | 10,960 lm





## HLR (C1D2) Series

80W	110W	140W	170W
8,350 lm	12,580 lm	13,260 lm	15,470 lm



### FEATURES:

- Clear, Diffused and Globe lens option
- Pendant and ceiling mount option

### LISTINGS:

- DLC
- Marine Grade
- Class I, Division 2, Groups A,B,C,D
- Class II, Division 2, Groups F,G
- Class III, Division 1
- 5G vibration rating
- 1000 hours, salt spray testing
- IP66

## HLRS (C1D2) Series

45W	65W
6,750 lm	9,750 lm



Coming Soon

80 - 200W / Universal mounting / up to 65°C operating temperature

## HL-LB (C1D2) Series

23W  
2,760 lm



### FEATURES:

- 3000K / 4000k / 5000K
- Pendant, Wall and Ceiling mount options

### LISTINGS:

- DLC Premium ( in progress)
- Marine Grade
- Class I, Division 2, Groups A, B, C, D
- Class II, Division 1, Groups E, F, G
- Class II, Division 2, Groups F, G
- Class III, Division 1
- 5G vibration rating
- 1000 hours, salt spray testing
- IP66

## HLRS (C1D2) Lowbay Series

45W | 65W  
5,760 lm | 8,960 lm

[Datasheet](#) | [Product](#)



## HL-AR (C1D1) Series

80W	100W	150W
9,600 lm	12,000 lm	18,245 lm



## HL-AR (C1D2) Series

80W	100W	150W
9,600 lm	12,000 lm	18,245 lm



### FEATURES:

- 2-3/8" Tenon Adaptor

### LISTINGS:

- DLC Premium
- Marine Grade
- Class I, Division 1, Groups C, D
- Class I, Division 2, Groups A, B, C, D
- Class II, Division 2, Groups F, G
- Class III, Division 1
- 5G vibration rating
- 1000 hours, salt spray testing
- IP66





## ELLF (C1D2) Series

140W - 180W	280W - 360W	420W - 540W
15,830 lm - 18,970 lm	31,660 lm - 37,940 lm	47,490 lm - 56,910 lm

### LISTINGS:

- Class I, Division 2, Groups A, B, C, D



## HL-WP (C1D2) Series

26W	43W
3199 lm / 3332 lm	5,316 lm / 5,538 lm



### FEATURES:

- Adjustable bracket
- Yoke brackets

### LISTINGS:

- ETL listing, Wet Locations
- Class I, Div. 2 Groups A, B, C & D
- IP66

# WHY MAXLITE? WE TACKLE TOUGH WITH EASE

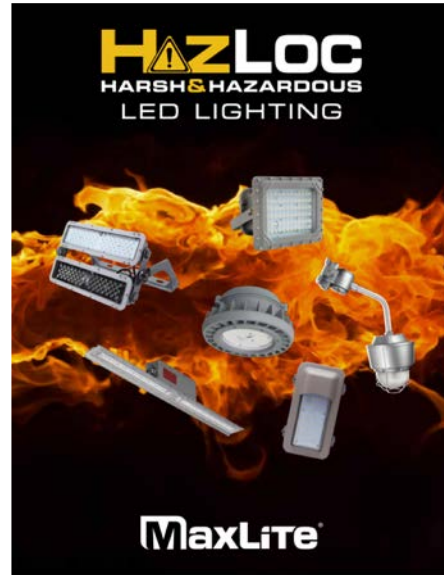


## MICROSITE



[www.maxlite.com/hazloc/](http://www.maxlite.com/hazloc/)

## BROCHURE



Item # HARSHANDHAZBRO  
Order Code: 1409930

## RATINGS

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T2C	230°C (446°F)	T4A	120°C (248°F)
T2D	215°C (419°F)	T5	100°C (212°F)
T3	200°C (392°F)	T6	85°C (185°F)

(See slides #4-7)

## COMPETITOR CROSS REFERENCE GUIDE

MaxLite Cross Reference Guide

MaxLite: 1-800-555-9629 | Fax: 975-244-7355 | Web: www.maxlite.com





## Cross Reference Guide

Product Categories		MaxLite	Crouse-Hinds (Eaton)	Dialight	Rig-A-Lite (AZZ)
FLOODS	Image				
	Certification	CID1, CID2, Marine Grade	CID2, Marine Grade	CID2, Marine Grade	CID2, Marine Grade
	Wattage	80W - 150W	28W - 131 W	106W - 140W	70W - 188W
	Lumen Output	9,600 - 18,245 lm	3,189 - 15,181 lm	10,000 - 15,000 lm	6,919 - 19,518 lm
LINEAR	Image				
	Certification	CID1, CID2, Marine Grade	CID1, CID2, Marine Grade	CID1, CID2, Marine Grade	CID1, CID2, Marine Grade
	Wattage	40W - 80W	29W - 63W	33W - 100W	40W - 87W
	Lumen Output	4,800 - 10,960 lm	3,600 - 7,600 lm	3,300 - 7,250 lm	3,654 - 11,450 lm
HIGH OUTPUT FLOOD	Image				
	Certification	CID2	Marine Grade	CID2, Marine Grade	
	Wattage	140W - 540W	216W - 531W	270W - 457W	
	Lumen Output	15,830 - 56,919 lm	26,240 - 56,890 lm	37,500 - 56,000 lm	

HIGH BAY	Image				
	Certification	CID2, Marine Grade	CID2, Marine Grade	CID2, Marine Grade	CID2, Marine Grade
	Wattage	45 W - 170W	29 W - 232 W	80 - 186 W	160W - 240W
	Lumen Output	8,350 - 15,470 lm	3,531 - 26,531 lm	10,250 - 27,000 lm	20,088 - 25,730 lm
LOW BAY	Image				
	Certification	CID2, Marine Grade	CID2, Marine Grade	CID2, Marine Grade	CID1, CID2, Marine Grade
	Wattage	23W	22W	56W - 154W	50W-150W
	Lumen Output	2,760 lm	1,600 lm	3,200 - 18,000 lm	5,138 - 8,829 lm
WALLPACK/ BULKHEAD	Image				
	Certification	CID2	UL1598 - Non Hazardous	CID2, Marine Grade	
	Wattage	26W - 43W	27W, 51W	27-51W	
	Lumen Output	3,100 lm - 5,550 lm	2,300 - 4,500 lm	600 lm - 2,250 lm	

MaxLite: 1-800-555-5629 | Fax: 973-244-7333 | Web: [www.maxlite.com](http://www.maxlite.com)

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## THANKS FOR ATTENDING!

### QUESTIONS/ANSWERS

Thank you everyone for your attention! Please feel free to use this opportunity to ask any questions you may have about MaxLite or the products shown in this presentation.

FOR MORE INFORMATION ABOUT OTHER MAXLITE PRODUCTS, OR FOR LIGHTING QUESTIONS IN GENERAL; PLEASE CONTACT:

[info@maxlite.com](mailto:info@maxlite.com)

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