

HAZARDOUS LOCATION LIGHTING BASICS

Atmosphere Groups

Substance	Hazard Class	Division Groups	Zone Groups	Max. Surface Temperatures	NEC® 500 CEC®	NEC® 500/IEC-Group II		
Acetylene	Class I Flammable Gases	Group A	IIC	450(842)	T1	T1		
Hydrogen		Group B	IIC	300(572)	T2			
Ethylene		Group C	IIB	280(536)	T2A			
Propane		Group D	IIA	260(500)	T2B	T2		
Methane		Group D	IIA ²	230(446)	T2C			
Combustible Metal Dusts	Class II Combustible Dusts	Group E ¹	IIIC ³	215(419)	T2D	T3		
Combustible Carbonaceous Dust		Group F	IIIB ³	200(392)	T3			
Combustible Dusts not in Group E or F (Flour, Grain, Wood, Plastics, Chemicals)		Group G	IIIB ³	180(256)	T3A			
Combustible Fibers and Flyings		Class III Fibers and Flyings	Not Applicable	165(329)	T3B			
				160(320)	T3C			
Note 1: Group E is applicable to Class II, Division 1 only.								
Note 2: Methane is a Group IIA Gas for non-mining applications.								
Note 3: Group IIIA, IIIB and IIIC have not been adopted by the Canadian Electrical Code.								

Temperature Classification



Classification of Divisions and Zones

Hazard Level	Division Scheme	Zone Scheme	Definitions
Continuous Hazard	Division 1	Zone 0 / Zone 20	A place in which an explosive atmosphere is continually present
Intermittent Hazard		Zone 1 / Zone 21	A place in which an explosive atmosphere is likely to occur in normal operation
Hazard Under Abnormal Conditions	Division 2	Zone 2 / Zone 22	A place in which an explosive atmosphere is not likely to occur in normal operation, but may occur for short periods

IP Codes

1st No.	Solid Objects
0	No protection
1	Objects greater than 50mm
2	Objects greater than 12.5mm
3	Objects greater than 2.5mm
4	Objects greater than 1mm
5	Dust protected
6	Dust proof

2nd No.	Liquids
0	No protection
1	Vertically dripping
2	Dripping up to 15°
3	Limited spraying
4	Splashing from all directions
5	Hosing jets from all directions
6	Strong hosing jets from all directions
7	Temporary immersion
8	Continuous immersion
9	Steam-jet cleaning

IK Ratings

IK Code	Level of Protection Achieved
IK00	Not protected
IK01	Protected against 0.14 joules impact
IK02	Protected against 0.2 joules impact
IK03	Protected against 0.35 joules impact
IK04	Protected against 0.5 joules impact
IK05	Protected against 0.7 joules impact
IK06	Protected against 1 joules impact
IK07	Protected against 2 joules impact
IK08	Protected against 5 joules impact
IK09	Protected against 10 joules impact
IK10	Protected against 20 joules impact
IK11	Protected against 40 joules impact

HAZLOC & HIGH TEMP

LED LUMINAIRES FOR HAZARDOUS ENVIRONMENTS

BLOCK MINI SERIES H1 / BLM H1

Compact, Precision Optics, Versatile Mounting
Area & Low Bay



Wattage: 21W/40W/50W/60W
Lumens (Lm): 4,220/6,499/7,179/8,514
Warranty: LEDs: 10 Years, Driver: 7 Years

BLOCK MINI SERIES H2 / BLM H2

Compact, Precision Optics, Versatile Mounting
Area & Low Bay



Wattage: 21W/40W/50W/60W
Lumens (Lm): 4,220/6,499/7,179/8,514
Warranty: LEDs: 10 Years, Driver: 7 Years

BLOCK SERIES H1 / BLK2 H1

Rugged, Field-proven, Medium Output
High Bay & Flood



Wattage: 80W/100W/120W/150W
Lumens (Lm): 12,320/14,162/17,680/21,227
Warranty: LEDs: 10 Years, Driver: 7 Years

BLOCK SERIES H2 / BLK2 H2

Rugged, Field-proven, Medium Output
High Bay & Flood



Wattage: 80W/100W/120W/150W
Lumens (Lm): 12,320/14,162/17,680/21,227
Warranty: LEDs: 10 Years, Driver: 7 Years

LINEAR TUFF SERIES / LNT2

Rugged, Versatile Mounting, High-Efficacy
Linear



Wattage: 30W/40W/60W/80W
Lumens (Lm): 4,608/6,192/8,670/10,810
Warranty: LEDs: 10 Years, Driver: 7 Years

LINEAR SERIES / LNR2

2ft & 4ft, Rugged, Versatile Mounting
Linear



Wattage: 30W/40W/60W/80W
Lumens (Lm): 4,426/5,795/9,185/12,026
Warranty: LEDs: 10 Years, Driver: 7 Years

LINEAR TUFF EMERGENCY SERIES / LNT EM

Explosion-Proof, Emergency, Hazardous Location
Linear



Wattage: 80W
Lumens (Lm): 10,057
Warranty: LEDs: 10 Years, Driver: 7 Years, Battery: 5 Years

LINEAR EMERGENCY SERIES / LNR EM

Slim, Durable, Emergency Lighting
Linear



Wattage: 40W/80W
Lumens (Lm): 6,183/11,486
Warranty: LEDs: 10 Years, Driver: 7 Years, Battery: 3 Years

LED LUMINAIRES FOR HAZARDOUS ENVIRONMENTS

ROUND SERIES / RND2

Universal Top, Versatile Mounting, Retrofit-friendly
Low Bay & Area



Wattage: 35W/40W/45W/55W/60W/65W
Lumens (Lm): 5,295/6,366/6,751/8,789/10,154/10,758
Warranty: LEDs: 10 Years, Driver: 7 Years

ROUND MAX SERIES / RDX

Universal Top, Versatile Mounting, Retrofit-friendly
High Bay & Area



Wattage: 80W/120W/150W/200W
Lumens (Lm): 12,720/19,320/23,850/29,600
Warranty: LEDs: 10 Years, Driver: 7 Years

MODULAR MAX SERIES / MDX

Lightweight, Ultra-efficient, High Output
High Bay & Flood



Wattage: 90W/120W/190W/260W/310W/380W/440W
Lumens (Lm): 16,467/21,037/32,082/40,632/50,554/62,902/72,190
Warranty: Standard: 7 Years, Extended: 10 Years

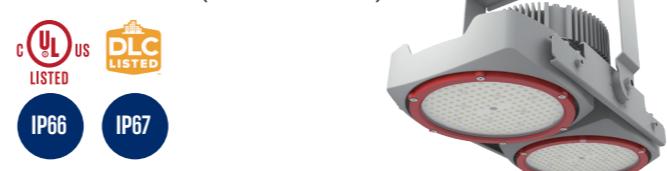


LED LUMINAIRES FOR HIGH-TEMPERATURE ENVIRONMENTS

MODULAR HOT SERIES / MDH

Extreme-Heat Resistant, Reliable Output
70°C High bay

Operating Temperature:
-40°F to + 158°F (-40°C to + 70°C) - Glass
-40°F to + 149°F (-40°C to + 65°C) - PC



Wattage: 200W/400W/600W/800W
Lumens (Lm): 30,521/57,516/87,595/114,598
Warranty: 5 Years

HIGH BAY HOT SERIES / HBH

Rugged, Corrosion-Proof, Long-Life
80°C High bay

Operating Temperature:
-40°F to + 176°F (-40°C to + 80°C)



Wattage: 150W
Lumens (Lm): 22,158 (110°), 19,970 (60°)
Warranty: Standard: 3 Years; Extended: 5 Years

