

HAZARDOUS LOCATION LIGHTING BASICS

Atmosphere Groups

Substance	Hazard Class	Division Groups	Zone Groups
Acetylene	Class I Flammable Gases	Group A	IIC
Hydrogen		Group B	IIC
Ethylene		Group C	IIB
Propane		Group D	IIA
Methane		Group D	IIA ²
Combustible Metal Dusts	Class II Combustible Dusts	Group E ¹	IIIC ³
Combustible Carbonaceous Dust		Group F	IIIB ³
Combustible Dusts not in Group E or F (Flour, Grain, Wood, Plastics, Chemicals)		Group G	IIIB ³
Combustible Fibers and Flyings	Class III Fibers and Flyings	Not Applicable	IIIA ³

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

Max. Surface Temperatures	NEC® 500 CEC®	NEC® 505/IEC-Group II
450(842)	T1	T1
300(572)	T2	
280(536)	T2A	
260(500)	T2B	
230(446)	T2C	T2
215(419)	T2D	
200(392)	T3	
180(256)	T3A	
165(329)	T3B	T3
160(320)	T3C	
135(275)	T4	
120(248)	T4A	
100(212)	T5	T5
85(185)	T6	T6

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



BUILT FOR HARSH &
HAZARDOUS LOCATIONS
ATEX | IECEx | UKEX Certified

RED SKY
SERIOUSLY SAFE LIGHTS™

HARSH & HAZARDOUS (ATEX & IECEx)

BLOCK MAX SERIES

Model No. BLX

ATEX & UKEX

II 2G Ex eb mb IIC T5/T4 Gb
II 2D Ex tb IIIC T85°C Db

IECEx

Ex eb mb IIC T5/T4 Gb
Ex tb IIIC T85°C Db

UKCA EMC/LVD

Zone 1&2
Zone 21&22
IP66/67
IK08

IEC60068-2-6 3g



Scan for Product Info

Wattage: 40W(EM)/90W(EM)/115W/145W/180W
Lumens (Lm): 7,162/15,523/20,741/25,800/31,164
Lumens (EM): 5,000Lm@90mins/2,500Lm@180mins
Warranty: Fixture: 5 Years, Battery: 1 Year

BLOCK SERIES X1

Model No. BLK X1

ATEX

II 2G Ex db IIB T5 Gb
II 2D Ex tb IIIC (T95°C Max) Db, IP66

CE EMC/LVD

Zone 1&2
Zone 21&22
IP66
IK08



Scan for Product Info

Wattage: 20W/40W/60W/80W/100W/120W/150W
Lumens (Lm): 2,399/5,046/7,010/11,629/14,082/17,642/20,924
Warranty: 5 Years

BLOCK SERIES C1

Model No. BLK C1

IECEx

Ex db IIB T6 Gb
Ex tb IIIC T85°C Db

UKEX

II 2G Ex db IIB T6 Gb
II 2D Ex tb IIIC T85°C Db

CE EMC/LVD

Zone 1&2
Zone 21&22
IP66
IK09



Scan for Product Info

Wattage: 80W/100W/150W
Lumens (Lm): 10,288/12,274/18,646
Warranty: 5 Years

LINEAR LOW PROFILE SERIES

Model No. LLP

ATEX & UKEX

II 2G Ex db eb mb IIC T6/T5 Gb
II 2D Ex tb IIIC T80°C Db

IECEx

Ex db eb mb IIC T6/T5 Gb
Ex tb IIIC T80°C Db

CE EMC/LVD

ROHS
EN62471
Zone 1&2
Zone 21&22
IP66
IK10



Scan for Product Info

Wattage: 20W/40W/50W/60W/80W/100W
Lumens (Lm): 2,674/4,886/7,122/8,231/10,295/12,158
Lumens (EM): 1,087Lm@180mins/1,962Lm@90mins
Warranty: Fixture: 5 Years. Battery: 1 Year

ROUND SERIES X2 AC & EM

Model No. RND X2 AC & EM

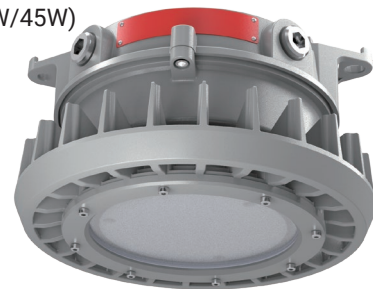
ATEX & UKEX

II 3G Ex ec nC nR IIC T4 Gc;
II 2D Ex tb IIIC T110°C Db (65W/75W)
II 3G Ex ec nC nR IIC T6 Gc;
II 2D Ex tb IIIC T85°C Db (25W/45W)

IECEx

Ex ec nC nR IIC T4 Gc;
Ex tb IIIC T110°C Db (65W/75W)
Ex ec nC nR IIC T6 Gc;
Ex tb IIIC T85°C Db (25W/45W)

Zone 2,21
IP66
IK08



Scan for Product Info

Wattage: 25W/45W/65W/75W
Lumens (Lm): 4,036/7,129/10,405/11,758
Lumens (EM): 1,800Lm@90mins
Warranty: Driver: 5 Years, Battery: 1 Year

ROUND SERIES X2 DC

Model No. RND X2 DC

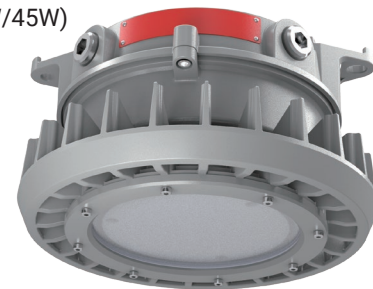
ATEX & UKEX

II 3G Ex ec nC nR IIC T4 Gc;
II 2D Ex tb IIIC T110°C Db (65W)
II 3G Ex ec nC nR IIC T6 Gc;
II 2D Ex tb IIIC T85°C Db (25W/45W)

IECEx

Ex ec nC nR IIC T4 Gc;
Ex tb IIIC T110°C Db (65W)
Ex ec nC nR IIC T6 Gc;
Ex tb IIIC T85°C Db (25W/45W)

Zone 2,21
IP66
IK08



Scan for Product Info

Wattage: 25W/45W/65W
Lumens (Lm): 4,096/7,067/10,209
Warranty: 3 Years

HARSH (CE & UKCA)

LINEAR HARSH SERIES

Model No. LNH

CE EMC/LVD

UKCA

ROHS

IP66

IK10



Scan for Product Info



Wattage: 25W/50W/75W/100W
Lumens (Lm): 4,089/7,453/11,313/14,612
Lumens (EM): 2,217Lm@90mins/2,303Lm@90mins
Warranty: 5 Years

CRANE MASTER SERIES

Model No. CMF

CE EMC/LVD

UKCA

ROHS

IP67

IK08

IEC60068-2-6 5g



Scan for Product Info

Wattage: 150W/300W/420W/560W
Lumens (Lm): 20,439/42,425/58,852/79,230
Warranty: 5 Years