HAZARDOUS LOCATION LIGHTING BASICS

N Atmosphere Groups

№ Temperature Classification

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	Т2
Propane		Group D	IIA	260(500)	T2B	
Methane		Group D	IIA ²	230(446)	T2C	
		·	IIIC ³	215(419)	T2D	
Combustible Metal Dusts	Class II Combustible Dusts	Group E ¹		200(392)	T3	
Combustible Carbonaceous Dust		Group F	IIIB ³	180(256)	T3A	Т3
Combustible Dusts not in Group E or F (Flour, Grain, Wood, Plastics, Chemicals)		Group G	IIIB ³	165(329)	ТЗВ	10
Combustible Fibers and Flyings	Class III Fibers and Flyings	Not Applicable	IIIA ³	160(320)	T3C	
				135(275)	T4	Τ.4
Note 1: Group E is applicable to Class II, Division 1 only.				120(248)	T4A	T4
Note 2: Methane is a Group IIA Gas for non-mining applications.			100(212)	T5	T5	
Note 3: Group IIIA, IIIB and IIIC have not been adopted by the Canadian Electrical Code.				85(185)	T6	T6

Hazard Level	Division Scheme	Zone Scheme	Definitions	
Continuous Hazard	5	Zone 0 / Zone 20	A place in which an explosive atmosphere is continually present	
Intermittent Hazard	Division 1	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

Solid Objects Objects greater than 50mm Objects greater than 12.5mm Objects greater than 2.5mm Objects greater than 1mm Dust protected Dust proof No protection Vertically dripping Dripping up to 15° Limited spraying Splashing from all directions Hosing jets from all directions Strong hosing jets from all directions Temporary immersion Steam-jet cleaning

IK Ratings IK Code Level of I

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



RED SKY
SERIOUSLY SAFE LIGHTS



HARSH & HAZARDOUS (ATEX & IECEX)

BLOCK MAX SERIES









ATEX & UKEX Standard

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

IECEx Standard

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 3q



Wattage: 40W(EM)/90W(EM)/115W/145W/180W Lumens (Lm): 7.162/15.523/20.741/25.800/31.164 Lumens (EM): 5,020Lm@90mins/2,581Lm@180mins

Warranty: Driver: 5 years, Battery: 1 Year

BLOCK SERIES X1

ATEX Standard

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**



Wattage: 20W/40W/60W/80W/100W/120W/150W Lumens (Lm): 2,399/4,260/5,944/8,815/10,733/15,807/18,863

Warranty: 5 Years

BLOCK SERIES C1

IECEx Standard

Fx 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 IP66/67 IK09



Wattage: 80W/100W/150W Lumens (Lm): 10.288/12.274/18.646

Warranty: 5 Years

LINEAR LOW PROFILE SERIES

(Battery option available)





ATEX & UKEX Standard

II 2G Ex db eb mb IIC T6/T5 Gb

II 2D Ex tb IIIC T80°C Db

IECEx Standard Ex db eb mb IIC T6/T5 Gb

Ex tb IIIC T80°C Db

CE EMC/LVD

ROHS **UKCA** (Pending)

Zone 1,21 IP66 IK10



Wattage: 20W/40W/50W/60W/80W/100W Lumens (Lm): 2,208/4,164/6,067/6,448/7,943/9,399

Warranty: Fixture: 5 Years. Battery: 1 Year

ROUND SERIES X2 AC & EM



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 Standard

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



Wattage: 25W/45W/65W/75W Lumens (Lm): 4,036/7,129/10,405/11,758

Lumens (EM): 1,800

Warranty: Driver: 5 years, Battery: 1 Year

ROUND SERIES X2 DC



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 Standard

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**



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

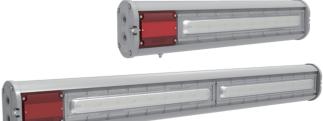
Warranty: 5 Years

LINEAR HARSH SERIES

(Battery option available)

UKCA ROHS

IK08

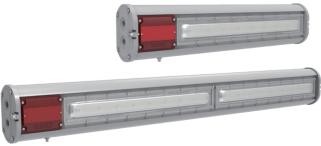


Wattage: 25W/50W/75W/100W Lumens (Lm): 4,089/7,453/11,313/10,294 Warranty: Fixture: 5 Years. Battery: 1 Year

HARSH (CE & UKCA)

CE CK

CE EMC/LVD IP66



CRANE MASTER SERIES

CE EMC/LVD **UKCA ROHS**

IP67 IK08

IEC60068-2-6 5g



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

Warranty: 5 Years

SCAN FOR LATEST PRODUCT INFO



+1 (262) 456-5002 contact@redskylighting.com