

CLASS ONE / DIVISION TWO

hazloc explosion-proof LED lighting information.



Solas Ray HazLoc Cut Sheets Identify Fixtures Class / Division.



A Hazardous Location Requires Three Things:

1. There must be Fuel to burn.
2. There must be Air to supply oxygen.
3. There must be Heat to start and continue the combustion process.

Flammable Gases & Vapors

1. Volatile flammable liquids or flammable gases are handled, processed or used, but the hazardous liquids, vapors or gases will normally be confined within closed containers or closed systems from which they can escape only in the event of accidental rupture or breakdown of containers or systems, or as a result of abnormal equipment operation.
2. Ignitable concentrations of gases or vapors are normally prevented by positive mechanical ventilation and which might become hazardous through failure or abnormal operations of ventilating equipment.
3. Adjacent to a Class I, Division 1 location, and where ignitable concentrations of gases or vapors might occasionally be communicated unless such communication is prevented by adequate positive-pressure ventilation from a source of clean air, and effective safeguards against ventilation failure are provided.

GAS & VAPOR

Volatility Temperature Chart

Gas Type by Volatility	Typical Self Ignition
Carbon Disulphide	90°C / 194°F
Ethyl Nitrate	90°C / 194°F
Butane	287°C / 548°F
Acetylene	300°C / 572°F
Ethyl Acetate	425°C / 797°F
Acetone	465°C / 869°F
Benzene	498°C / 928°F
Hydrogen	500°C / 932°F
Industrial Methane	535°C / 995°F
Carbon Monoxide	605°C / 1,121°F
Ammonia	650°C / 1,202°F

Class 1 Groups

Group A	Group B	Group C	Group D
<ul style="list-style-type: none"> • Acetylene 	<ul style="list-style-type: none"> • Hydrogen • Butadine • Ethylene Oxide • Propylene Oxide • Acrolien 	<ul style="list-style-type: none"> • Ethylene • Cyclopropane • Ethyl Ether 	<ul style="list-style-type: none"> • Propane • Acetone • Ammonia • Benzene • Gasoline • Hexane • Methanol • Naptha • Natural Gas • Ethanol • Butane • Toluene

T - RATING CHART

T-CODES		MAX Surface Temperature
NEC 505	NEC 500	
T1	T1	450°C / 842°F
T2	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	T3	200°C / 392°F
	T3A	180°C / 356°F
	T3B	165°C / 329°F
	T3C	160°C / 320°F
T4	T4	135°C / 275°F
	T4A	120°C / 248°F
T5	T5	100°C / 212°F
T6	T6	85°C / 185°F

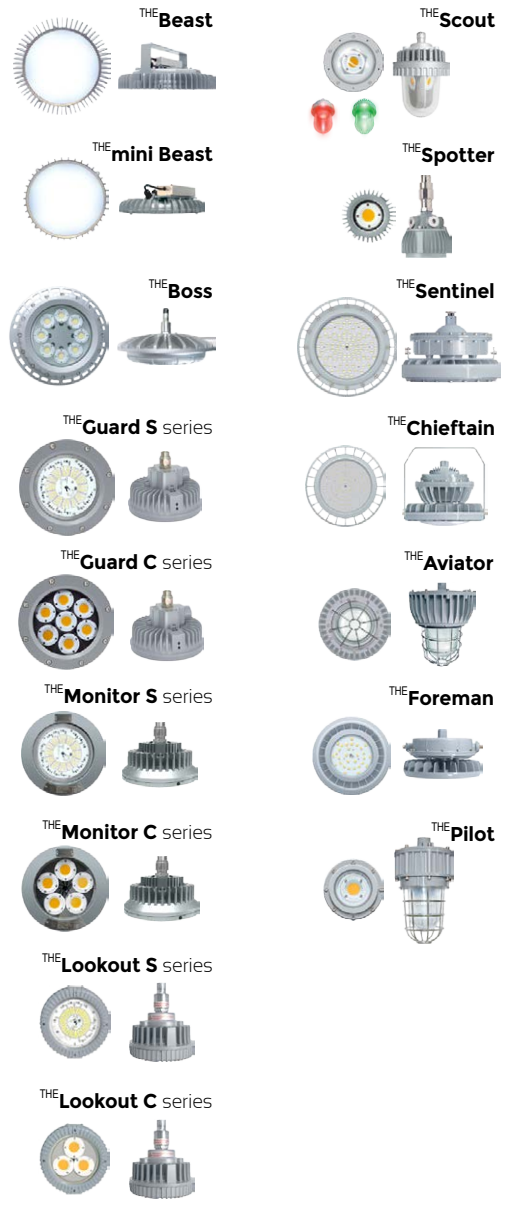
Class 1 Division 2 Fixtures

ROUND	FLOOR	LINEAR	SPECIALTY	RETROFIT
THE Beast	THE Dominator	THE Steward	THE Director	THE Guard RETROFIT
THE mini Beast	THE Warden 16	THE Flyer	THE Curator Exit	THE Monitor RETROFIT
THE Boss	THE Warden 12	THE Curator	THE Guide	THE Lookout RETROFIT
THE Guard S	THE Warden 8	THE Mariner 4	THE Finisher 1by	
THE Guard C	THE Patroller	THE Mariner 2	THE Finsher 2by	
THE Monitor S	THE Attendant	THE Mariner 1		
THE Monitor C	THE Navigator	THE Keeper		
THE Lookout S		THE Keeper 2		
THE Lookout C				
THE Scout				
THE Spotter				
THE Sentinel				
THE Chieftain				
THE Aviator				
THE Foreman				
THE Pilot				

See page 2 for linked product photos.

Class 1 Division 2 Fixtures

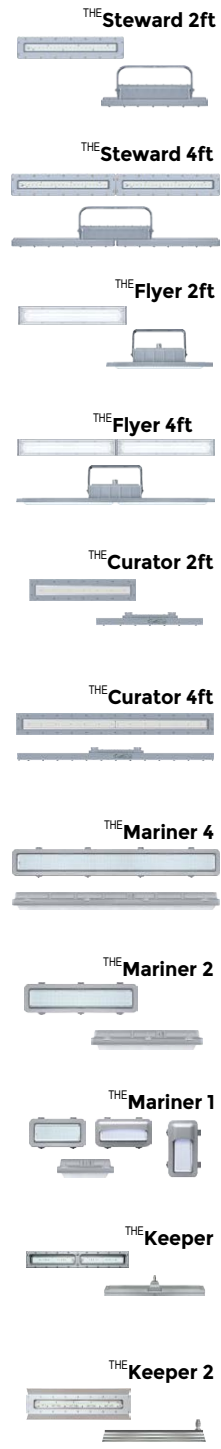
ROUND
explosion-proof
SOLAS RAY



FLOOD
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LINEAR
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SPECIALTY
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RETROFIT
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