

# CLASS ONE / DIVISION ONE

hazloc explosion-proof LED lighting information.

<b>C1/D1</b>	C1/D2	C2/D1	C2/D2	C3
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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. Ignitable concentrations of flammable gases or vapors may exist under normal operating conditions.
2. Ignitable concentrations of gases or vapors that may exist frequently because of repair or maintenance operations or because of leakage.
3. Breakdown or faulty operation of equipment or processes might release ignitable concentrations of flammable gases or vapors, and might also cause simultaneous failure of electric equipment.

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

## Class 1 Division 1 Fixtures

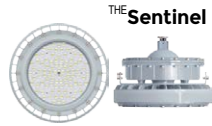
ROUND CORPORATES	FLOOD CORPORATES	LINEAR CORPORATES	SPECIALTY CORPORATES	RETROFIT CORPORATES
THE <b>Boss</b>	THE <b>Dominator</b>	THE <b>Steward</b>	THE <b>Guide</b>	THE <b>Guard</b> RETROFIT
THE <b>Guard S</b>		THE <b>Keeper</b>	THE <b>Finisher 1by</b>	THE <b>Monitor</b> RETROFIT
THE <b>Monitor C</b>			THE <b>Finsher 2by</b>	THE <b>Lookout</b> RETROFIT
THE <b>Lookout S</b>				
THE <b>Lookout C</b>				
THE <b>Sentinel</b>				
THE <b>Chieftain</b>				
THE <b>Aviator</b>				
THE <b>Pilot</b>				

### T - RATING CHART

T-CODES NEC 505		NEC 500	MAX Surface Temperature
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 1 Fixtures

**ROUND**  
explosion-proof  
SOUND



**FLOOD**  
explosion-proof  
FLOOD



**LINEAR**  
explosion-proof  
FLOOD



**SPECIALTY**  
explosion-proof  
SPECIALTY



**RETROFIT**  
explosion-proof  
RETROFIT

