

# CLASS TWO / DIVISION ONE

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.

## Combustible Dusts

1. Where combustible dust is present in the air under normal operating conditions in such a quantity as to produce explosive or ignitable mixtures. This could be on a continuous, intermittent or periodic basis.
2. Where an ignitable and/or explosive mixture could be produced if a mechanical failure or abnormal machinery operation occurs.
3. Where electrically conductive dusts in hazardous concentrations are present.

### COMBUSTIBLE DUST

#### Volatility Temperature Chart

Dust Type by Volatility	Typical Self Ignition Temperature	
	Cloud	Layer
Lignite	380°C / 716°F	225°C / 437°F
Lead	460°C / 860°F	240°C / 464°F
Cellulose	490°C / 914°F	430°C / 806°F
Flour	490°C / 914°F	430°C / 806°F
Cocoa	500°C / 932°F	200°C / 392°F
Polyacrylonitrile	540°C / 1,004°F	400°C / 752°F
Soya Meal	540°C / 1,004°F	340°C / 644°F
Zinc	570°C / 1,058°F	440°C / 824°F

## Class 2 Groups

Group E	Group F	Group G
<ul style="list-style-type: none"> <li>• Aluminum</li> <li>• Magnesium</li> <li>• Commercial Alloys</li> <li>• Combustible Metal Dusts</li> </ul>	<ul style="list-style-type: none"> <li>• Coal</li> <li>• Carbon Black</li> <li>• Charcoal</li> <li>• Coke Dusts</li> <li>• Combustible Carbonaceous Dusts</li> </ul>	<ul style="list-style-type: none"> <li>• Flour</li> <li>• Grain</li> <li>• Wood</li> <li>• Plastic</li> <li>• Chemicals</li> <li>• Other Combustible Dusts</li> </ul>

### T - RATING CHART

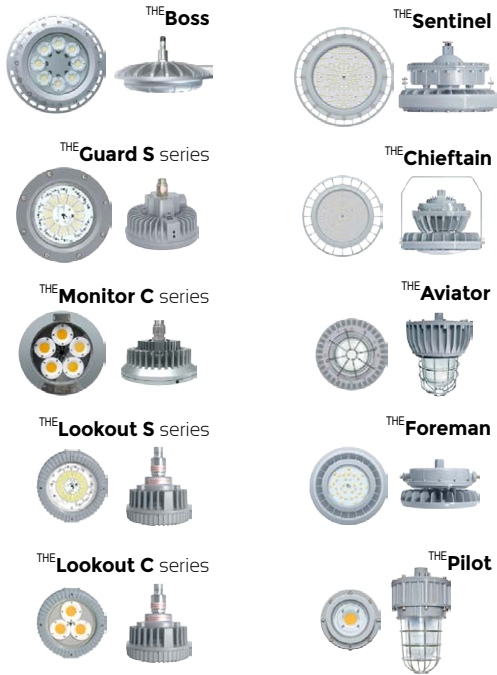
T-CODES NEC 505	T-CODES NEC 500	MAX Surface Temperature
T2	T2	300°C / 572°F
	T2A	280°C / 536°F
	T2B	260°C / 500°F
	T2C	230°C / 446°F
	T2D	215°C / 419°F
T3	T3	200°C / 392°F
	T3A	180°C / 356°F
	T3B	165°C / 329°F
	T3C	160°C / 320°F
T4	T4	135°C / 275°F
	T4A	120°C / 248°F
T5	T5	100°C / 212°F
T6	T6	85°C / 185°F

## Class 2 Division 1 Fixtures

ROUND www.round.com	FLOOD www.flood.com	LINEAR www.linear.com	SPECIALTY www.specialty.com	RETROFIT www.retrofit.com
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>Patroller</b>	THE <b>Flyer</b>	THE <b>Finisher 1by</b>	THE <b>Monitor</b> RETROFIT
THE <b>Monitor C</b>		THE <b>Curator</b>	THE <b>Finisher 2by</b>	THE <b>Lookout</b> RETROFIT
THE <b>Lookout S</b>				
THE <b>Lookout C</b>				
THE <b>Scout</b>				
THE <b>Sentinel</b>				
THE <b>Chieftain</b>				
THE <b>Aviator</b>				
THE <b>Foreman</b>				
THE <b>Pilot</b>				

## Class 2 Division 1 Fixtures

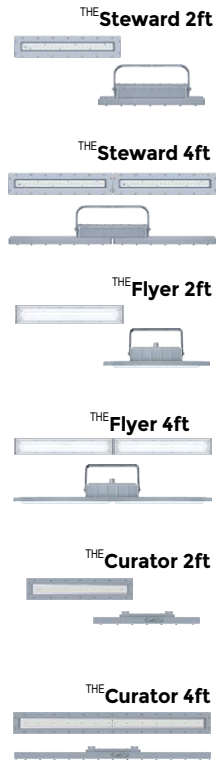
**ROUND**  
explosion-proof  
SOUND



**FLOOD**  
explosion-proof  
FLOOD



**LINEAR**  
explosion-proof  
LINEAR



**SPECIALTY**  
explosion-proof  
SPECIALTY



**RETROFIT**  
explosion-proof  
RETROFIT

