shat·r·shield lighting inc.

Project		Date	
Type		Notes	

LED Hybrid™ Hazardous Locations

The LED Hybrid™ fixture is a durable multi-purpose and corrosion-resistant LED lighting solution that can be used in heavy industrial applications where hazardous location lighting is required. The Hybrid uses thermally conductive engineered polymers to extract heat away from the light source and its natural convection allows for maximum thermal performance while minimizing energy costs.

Housing Construction

The Hybrid engineered plastics are made from a variety of outdoor rated polycarbonate resins. The unique feature of the housing is that is made of a specially compounded thermally conductive polycarbonate resin. This allows for excellent heat transfer and heat management of the LED junction temperature and eliminated the typical aluminum housing which has coatings that are highly receptive to corrosion and degradation.

Specifications

- Dimming: 0-10V
- Lens: Clear or Frosted Polycarbonate
- Laminated Glass Lens Optional
- Weight: 7.5 pounds
- 45W & 90W Temperature Rating: T3C (Class 1), T4 (Class 2 & 3)
- 30W Temperature Rating: T5 (Class 1), T4 (Class 2 & 3)
- 1/2" or 3/4" Stainless Steel NPT Connector Hub

Applications

Gas Stations, Grain Elevators, Food Processing, Distilleries, Chemical Plants, Refineries, Pulp and Paper Mills, Power Generation, Wastewater Treatment Plants, Ship Yards, Mines, Petroleum

Watts	30W, 45W, 48W, 60W, 90W, 95W
Voltage	120-277V & 347-480V *(30W Only)*
Lumens	4,900-15,724
Efficacy	124-176 LPW
Color Temperature	4000K & 5000K
LED Life	Projected: 100,000 hours
Operating Temperature	-22°F to 122°F; -30°C to 50°C
Warranty	5 year limited warranty

Manufactured in America with globally and domestically sourced components

Class 1 Div 2	Class 2 Div 2	Class 3 Div 1&2	ABS TYPE APPROVED PRODUCT	DLC	c(UL)us	NSF
UL1598A	UL1598	UL844	IP69K	IP66	NEMA 5	NEMA 4X	USDA	UL Wet Locations

Hazardous Classifications:

Class 1: Flammable gases & liquids
- **Division 2:** The hazardous atmosphere is only available infrequently (i.e. in case of spill).
- **Groups A, B, C, D:** Includes acetylene, hydrogen and similar gases to it, plus common flammable substances such as butane, gasoline, natural gas and propane.
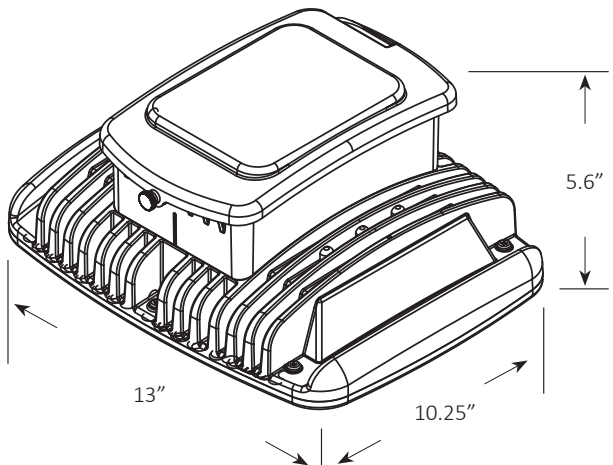
Class 2: Dust
- **Division 2:** The hazardous atmosphere is only available infrequently (i.e. in case of spill).
- **Groups F, G:** Group F contains dusts consisting of or containing carbon or its compounds (i.e. coal), and Group G dusts are non-conductive dusts (i.e. grain, wood or plastic).

Class 3: Fibers or Flyings
- Contains easily ignitable fibers or flyings, but the concentration of these fibers or flyings are not suspending in the air in such quantities that would produce ignitable mixtures.
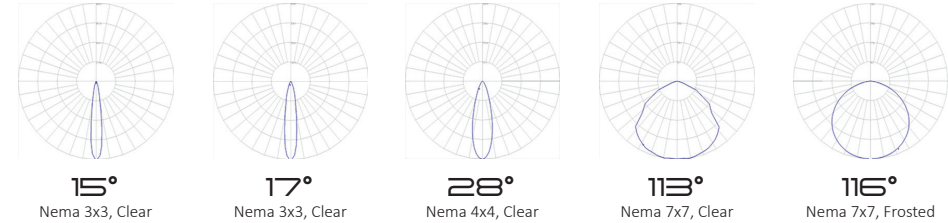
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Dimensional Drawing

5.6"
13"
10.25"

Mounting Options

Adjustable Wall Pack | Trunnion Surface | Adjustable Stanchion

Surface | Pendant | Flood

Beam Angles

15°
Nema 3x3, Clear

17°
Nema 3x3, Clear

28°
Nema 4x4, Clear

113°
Nema 7x7, Clear

116°
Nema 7x7, Frosted

Ordering Guide

Wattage	Fixture	CCT	Mount	Optics	Voltage	Face Color	Spec	Lens Material	Access.	Build	Rev
HY							**HZ**				**01**
030 = 30W *5,450 Lm*		40 = 4000K	ST = Area	FR = Frosted, NEMA 7x7 BA (116°)	VL = 120-277V VH = 347-480V *(30W Only)*	Y = Yellow		00 = Polycarbonate	SC = Safety Cable	H0 = Adjustable Wall Pack	
				CL = Clear, NEMA 7x7 BA (113°)						H2 = Trunnion Surface	
045 = 45W *5,700 Lm*			FL = Flood	44 = Clear, NEMA 4x4 BA (28°)						H3 = Adjustable Wall Pack (Blk)	
										H4 = Adjustable Stanchion	
048 = 48W *8,200 Lm*	HY = Hybrid			33 = Clear, NEMA 3x3 BA (17°)			HZ = Hazardous Locations			H5 = Trunnion Surface (Blk)	
060 = 60W *10,900 Lm*		50 = 5000K	WN = Wall Pack		VL = 120-277V			LG = Laminated Glass		H6 = Surface	
						B = Black			SW = Sample Whip	H7 = Pendant	
090 = 90W *11,100 Lm*				22 = Clear, NEMA 3x3 BA (15°)						Z0 = Flood	
095 = 95W *16,000 Lm*										V2 = 1 1/2" Adjustable Stanchion	