

L1733N

Hazardous Location LED Lighting



Net Weight: SMD/DOB 8.2 kg (18 lb),
SMD with lens 9.4 kg (20.7 lb)



Protection

- DOB**
- Ex nR IIC T4 Gc
 - Ex tb IIIC T110°C Db
 - Ex II 3 G Ex nR IIC T4 Gc
 - Ex II 2 D Ex tb IIIC T110°C Db
- SMD**
- Ex nR IIC T5 Gc
 - Ex tb IIIC T100°C Db
 - Ex II 3 G Ex nR IIC T5 Gc
 - Ex II 2 D Ex tb IIIC T100°C Db
- SMD with Lens**
- Ex nR IIC T6 Gc
 - Ex tb IIIC T85°C Db
 - Ex II 3 G Ex nR IIC T6 Gc
 - Ex II 2 D Ex tb IIIC T85°C Db

Standards

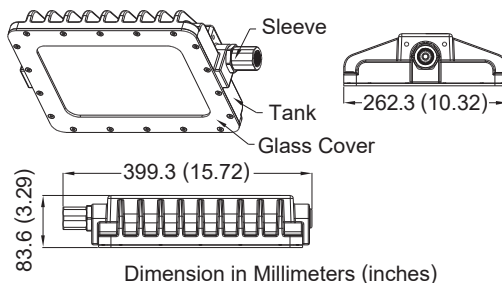
- IEC 60079-0
IEC 60079-15
IEC 60079-31
EN 60079-0
EN 60079-15
EN 60079-31

Technical Data

Rated Voltage (±10%)	DOB: 110V / 220V / 277V, SMD: 110V / 220V / 277V AC, SMD (with Lens): 100~277V (Full Voltage)												
Watts (±10%)	DOB: 120W/140W/160W/180W, SMD: 120W/140W/150W, SMD (with Lens): 110W/130W/150W												
Amps	DOB 120W 110V:1.09A, 220V:0.55A, 277V:0.43A / 140W 110V:1.27A, 220V:0.64A, 277V:0.51A 160W 110V:1.45A, 220V:0.73A, 277V:0.58A / 180W 110V:1.64A, 220V:0.82A, 277V:0.65A SMD 120W 110V:1.09A, 220V:0.55A, 277V:0.43A / 140W 110V:1.27A, 220V:0.64A, 277V:0.51A 150W 110V:1.36A, 220V:0.68A, 277V:0.54A SMD with lens 110W 0.39A ~ 1.1A / 130W 0.46A ~ 1.3A / 150W 0.54A ~ 1.5A												
Color of LED Light	3000K (Warm White) / 5000K (Cool White)												
Ambient Temperature	-20°C ~ +50°C (DOB:T4, SMD:T5), -20°C ~ +40°C, T6 (SMD with Lens)												
Power Factor	cos≥0.9												
CRI	Cool White≥70 / Warm White≥80												
Lumen (±10%)	DOB	120W	140W	160W	180W	SMD	120W	140W	150W	SMD with Lens	110W	130W	150W
	3000K	10708	11628	13037	14256lm	3000K	11760	14074	15850lm	3000K	14279	16989	17485lm
	5000K	11680	12862	13351	15430lm	5000K	14004	15587	17166lm	5000K	12502	14595	17685lm
Beam Angle	X-110° / Y-110°												
Frequency	50 / 60 Hz												
Degree of Protection	IP68 / NEMA 6P												
Material	• Enclosure	Aluminum alloy											
	• Glass	Tempered glass											
LED Service Life	60,000 hrs												
Entrance Thread	1 × NPT 3/4"												

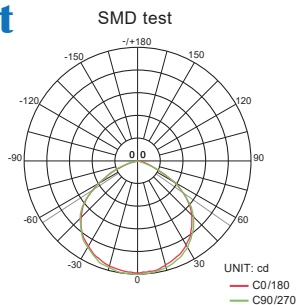
Technical drawing of the LED light fixture showing top, side, and front views with dimensions:

- Top View: Rectangular shape with a central square cutout. Dimensions: 399.3 (15.72) inches in width and 262.3 (10.32) inches in height.
- Side View: Shows the profile of the fixture with a height of 3.6 (3.29) inches.
- Front View: Shows the fixture from the front, highlighting the glass cover and the entrance thread.
- Labels: Sleeve, Tank, Glass Cover.

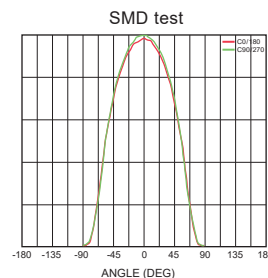


Optical Report

Polar Luminous Intensity Distribution



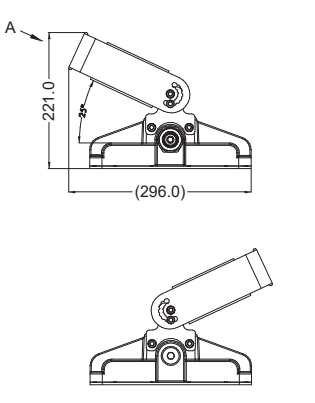
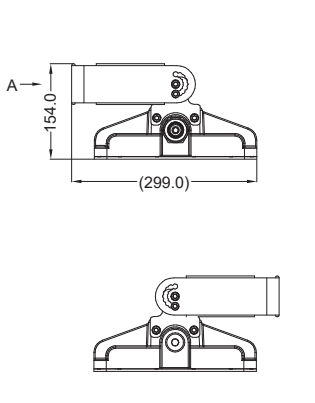
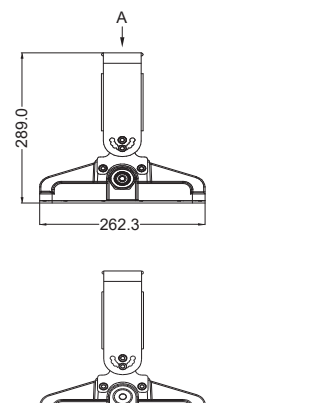
Luminous Intensity Distribution Diagram



Model Code

THT	H	1733	A	N	A	C	9	S0	H90
Brand, THT=Top Hi-Tech Co, Ltd.	Category of luminaire, H=Luminaires for hazardous locations	Model Name, 1733=Model L1733N series	Sub-series designation, A=AC in LED, B=DC in LED	Type of top cover, N=Without top cover	Type of LED module, A=DOB LED, K=SMD LED	C.C.T., C=Cool White, W=Warm White	Voltage, 1=110V(AC LED), 2=220V(AC LED), 9=277V(AC LED), H=100~277V(DC LED)	Wattage, K0=110W (DC SMD), L0=120W (DOB/AC SMD), M0=130W (DC SMD), N0=140W (DOB/AC SMD), P0=150W (AC & DC SMD), Q0=160W (DOB), S0=180W (DOB)	Mounting bracket type W25/90=Wall Mount 25°/90° H90=Hanging Mount 90°

Mounting Option & Dimensions (All in mm)

Wall Mount 25°(W25)	Wall Mount 90°(W90)	Hanging Mount 90° (H90)
 View A DOB/SMD: 9.8 kg (21.6 lb) SMD with Lens: 11.0 kg (24.3 lb)	 View A DOB/SMD: 9.8 kg (21.6 lb) SMD with Lens: 11.0 kg (24.3 lb)	 View A DOB/SMD: 9.8 kg (21.6 lb) SMD with Lens: 11.0 kg (24.3 lb)

Light Features

- Various wattage for different lumen requirement
- SMD with different angle lens is available upon request

Applicable Area

- Oil Refinery Complex
- Petrochemical Complex
- Painting Facility
- Transporting Nature Gas
- Transproting Liquefied Petroleum Gas
- Offshore Platform (Oil and Natural Gas)