

L1733N

Luminaires
For Use In Hazardous Locations



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

CID2
Group
A, B, C, D

CIID2
Group
F, G

IP68

**NEMA
6P**

Protection

- Class I, Division 2, Groups A, B, C and D
- Class II, Division 2, Groups F and G
- Class III

Standards

UL 844
UL 1598 Luminaires
UL 8750
CSA C22.2 No. 137-M1981
CSA C22.2 No. 250.0
CSA C22.2 No. 250.13

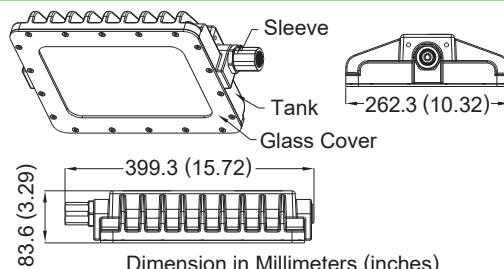
Light Features

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

Technical Data

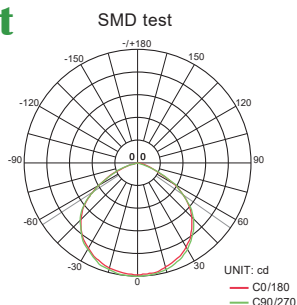
Rated Voltage (±10%)	COB: 120V / 277V / 347V (Only 120W) / 480V (Only 120W), SMD: 120V / 277V AC, SMD (with Lens): 100~277V / 200V~480V (Full Voltage)											
Watts (±10%)	COB: 120W/140W/160W, SMD: 120W/140W/150W, SMD(with Lens): 110W/130W/150W											
Amps	120W 120V: 1.00A, 277V: 0.43A, 347V: 0.35, 480V: 0.25A / 140W 120V: 1.17A, 277V: 0.51A / 150W 120V: 1.25A, 277V: 0.54A / 160W 120V: 1.33A, 277V: 0.58A / 110W 100~277V: 1.10A~0.40A, 200~480V:0.22A~0.55A / 130W 100~277V: 1.30A~0.50A, 200~480V:0.27A~0.65A / 150W 100~277V: 1.50A~0.54A, 200~480V:0.31A~0.75A											
Color of LED Light	3000K (Warm White) / 5000K (Cool White)											
Ambient Temperature	CID2: -20°C ~ +50°C, T3 / CIID2: +50°C, T4A (COB/SMD) CID2: -20°C ~ +40°C, T4A / CIID2: +40°C, T5 (SMD with Lens)											
Power Factor	cos≥0.9, cos≥0.87 (480V)											
CRI	Cool White ≥ 70 / Warm White ≥ 80											
Lumen (±10%)	COB	120W	140W	160W	SMD	120W	140W	150W	SMD with Lens	110W	130W	150W
	3000K	12192	13588	15107lm	3000K	11760	14074	15850lm	3000K	14279	16989	17485lm
	5000K	14416	13922	16630lm	5000K	14004	15587	17166lm	5000K	12502	14595	17685lm
Beam Angle	X-110° / Y-110° (COB / SMD)											
Frequency	50 / 60 Hz											
Degree of Protection	IP68 / NEMA 6P											
Material	• Enclosure • Glass	Aluminum alloy Tempered glass										
LED Service Life	60,000 hrs											
Entrance Thread	1 × NPT 3/4"											

The technical drawing illustrates the LED light fixture from three perspectives: top, side, and front. The top view shows a rectangular fixture with a width of 399.3 mm (15.72 inches). The side view shows a height of 6 mm (3.29 inches). The front view shows a width of 262.3 mm (10.32 inches). Labels indicate the 'Sleeve', 'Tank', and 'Glass Cover' components.

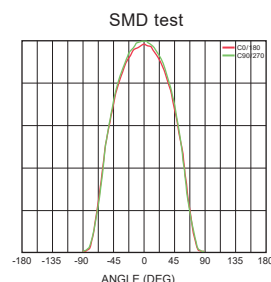


Optical Report

Polar Luminous
Intensity Distribution



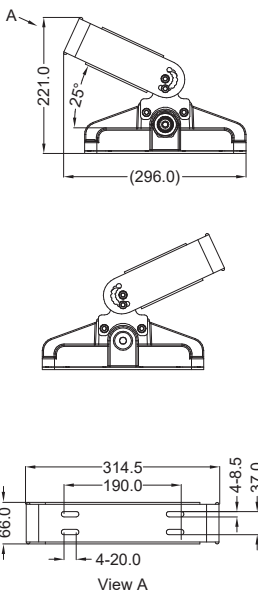
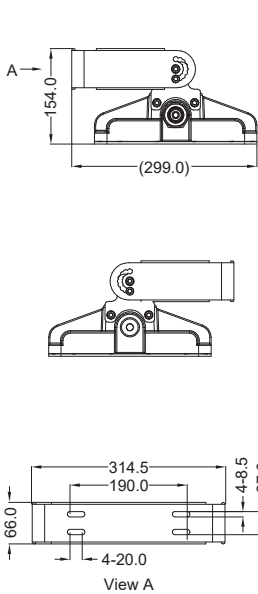
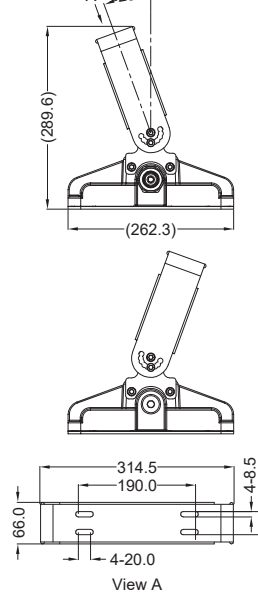
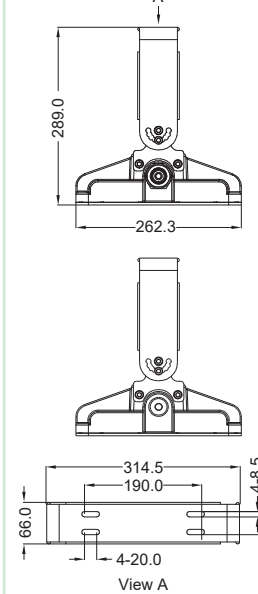
Luminous
Intensity Distribution Diagram



Model Code

THT	H	1733	A	N	B	C	C	Q0	WHT
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, B=COB LED, K=SMD LED	C.C.T., C=Cool White, W=Warm White	Voltage, 6=120V, 9=277V, F=347V, C=480V, H=100~277V, J=200~480V	Wattage, Q0=160W, P0=150W, N0=140W, M0=130W, L0=120W, K0=110W	Mounting bracket type WHT(W25/90)=Wall Mount 25°/90° WHT(H20/90)=Hanging Mount 20°/90°

Mounting Option & Dimensions (All in mm)

Wall Mount 25° [WHT (W25)]	Wall Mount 90° [WHT (W90)]	Hanging Mount 20° [WHT (H20)]	Hanging Mount 90° [WHT (H90)]
 COB/SMD: 9.8 kg (21.6 lb) SMD with Lens: 11.0 kg (24.3 lb)	 COB/SMD: 9.8 kg (21.6 lb) SMD with Lens: 11.0 kg (24.3 lb)	 COB/SMD: 9.8 kg (21.6 lb) SMD with Lens: 11.0 kg (24.3 lb)	 COB/SMD: 9.8 kg (21.6 lb) SMD with Lens: 11.0 kg (24.3 lb)

Applicable Area

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