

# L1703

## Luminaires For Use In Hazardous Locations



**CID2**  
Group  
A, B, C, D

**CIID2**  
Group  
F & G

**IP68**

**NEMA  
6P**

### Protection

- Class I, Division 2, Group A, B, C, D
- Class II, Division 2, Group F, 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

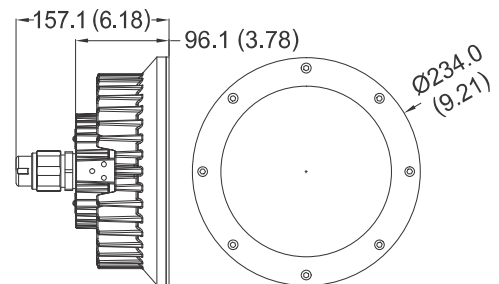
- Applicable to high temperature environment
- IP68 rated for wet location
- Offers DOB and SMD light source option

## Technical Data

Rated Voltage (±10%)	120V / 277V AC								
Watts (±10%)	DOB: 60W / 80W / 90W / 100W, SMD: 65W / 75W / 95W								
Amps	60W 120V: 0.50A, 277V: 0.22A / 80W 120V: 0.67A, 277V: 0.29A 90W 120V: 0.75A, 277V: 0.32A / 100W 120V: 0.83A, 277V: 0.36A 65W 120V: 0.54A, 277V: 0.23A / 75W 120V: 0.63A, 277V: 0.27A 95W 120V: 0.79A, 277V: 0.34A								
Color of LED Light	3000K (Warm White) / 5000K (Cool White)								
Ambient Temperature	CID2: -40°C ~ +40°C, T3C / CIID2: +40°C, T4A								
Power Factor	cos≥0.9								
CRI	Cool White≥70 / Warm White≥80								
Lumen (±10%)	DOB	60W	80W	90W	100W	SMD	65W	75W	95W
	3000K	5700lm	7600lm	8550lm	9500lm	3000K	6175lm	7125lm	9025lm
	5000K	6000lm	8000lm	9000lm	10000lm	5000K	6500lm	7500lm	9500lm
Beam Angle	X-110° / Y-110°								
Frequency	50 / 60 Hz								
Degree of Protection	IP68 / NEMA 6P								
Material	<div><div>• Enclosure</div><div>• Glass</div></div>	Aluminum alloy Tempered glass							
LED Service Life	60,000 hrs								
Entrance Thread	1 × M25								

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

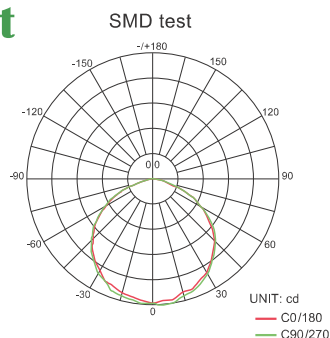
- Side view dimensions: 157.1 (6.18) and 96.1 (3.78).
- Top view dimensions: Ø234.0 (9.21).



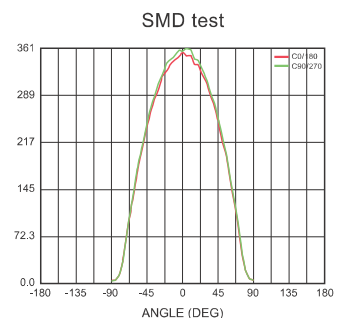
Dimension in Millimeters (inches)

## Optical Report

### Polar Luminous Intensity Distribution



### Luminous Intensity Distribution Diagram

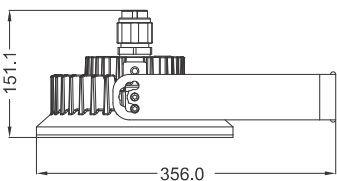
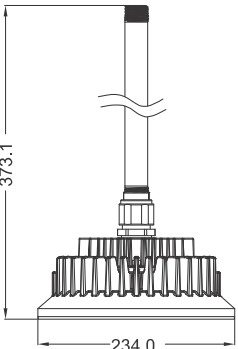
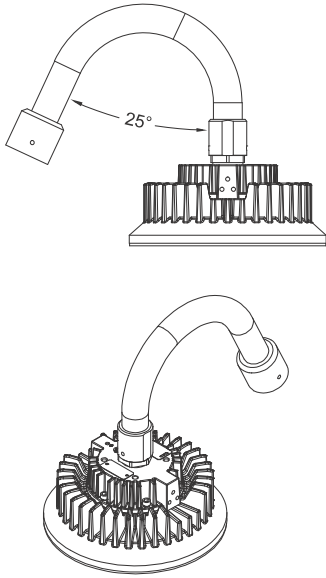
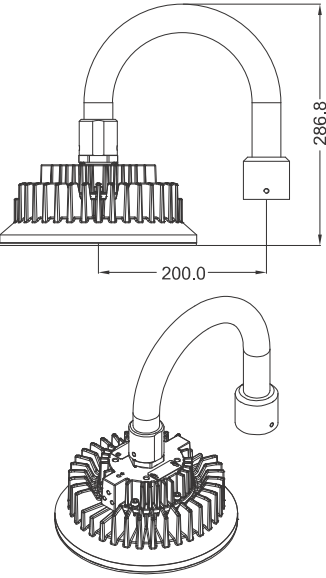
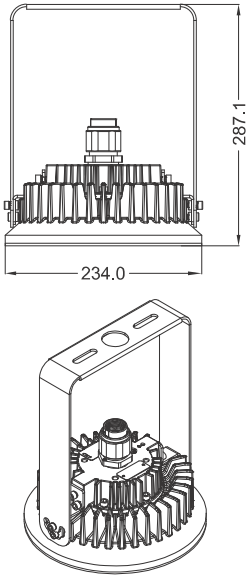


# L1703

## Model Code

THT	H	1703	Z	C	A	C	9	J0	WHT
Brand, THT=Top Hi-Tech Co, Ltd.	Protection type of luminaire, H=Hazardous location LED lighting	Model Name, 1703=Model L1703	Suffix for manufacturer internal use only, Z=No sub-series under this model	Type of top cover, C=Top cover with opening	Type of LED module, A=DOB type LED, K=SMD type LED	C.C.T., C=Cool White, W=Warm White	Voltage, 6=120V, 9=277V	Wattage, F0=60W, F5=65W, G5=75W, H0=80W, I0=90W, I5=95W, J0=100W	Mounting bracket type S25/90=Bending Electrical Tube 25°/90° P90=Straight Electrical Tube WHT(W90)=Wall Mount 90° WHT(H90)=Hanging Mount 90° Pan= Pan Mounting

## Mounting Option & Dimensions (All in mm)

<p>Wall Mount 90° [WHT (W90)]</p>  <p>6.3 kg (13.8 lb)</p>		<p>Straight Electrical Tube (P90)</p>  <p>6.5 kg (14.3 lb)</p>
<p>Bending Electrical Tube 25° (S25)</p>  <p>6.5 kg (14.3 lb)</p>	<p>Bending Electrical Tube 90° (S90)</p>  <p>6.6 kg (14.6 lb)</p>	<p>Hanging Mount 90° [WHT (H90)]</p>  <p>6.3 kg (13.8 lb)</p>

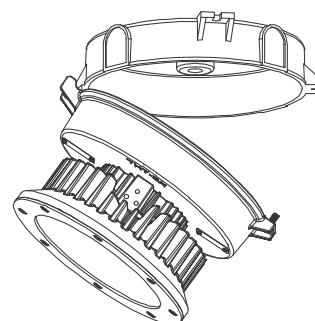
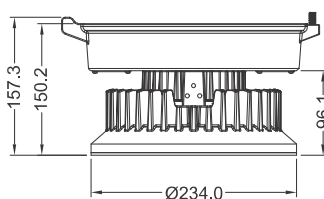
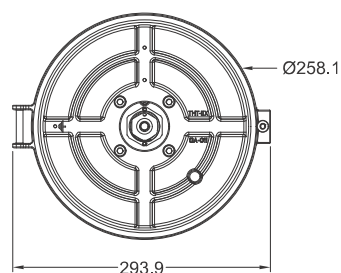
### Applicable Area

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

## Pan Mounting Option & Dimensions (All in mm)

### Retrofit Kit for C Brand

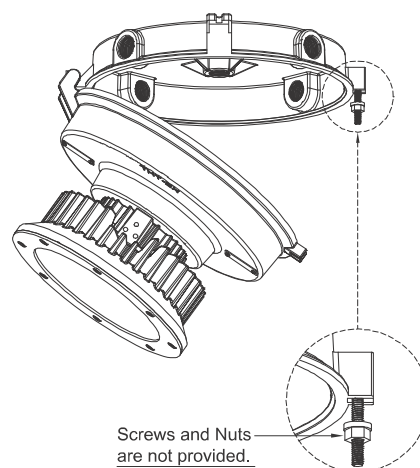
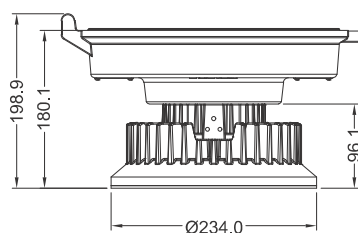
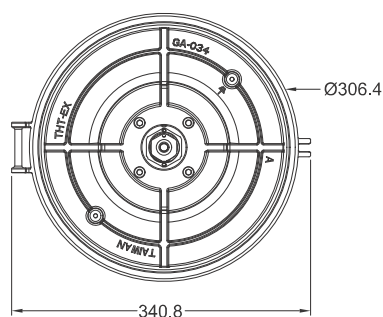
(PAN)



6.5 kg (14.3 lb)

### Retrofit Kit for A Brand

(PANA)

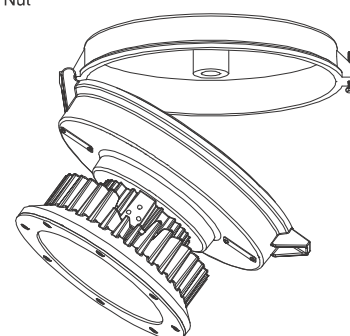
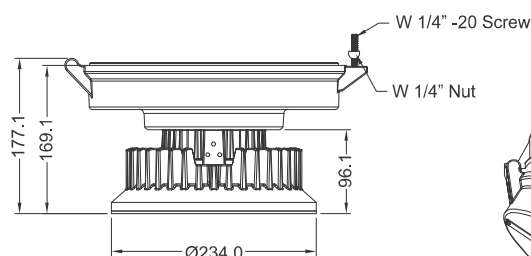
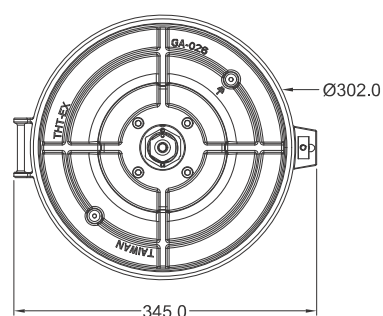


Screws and Nuts  
are not provided.

6.8 kg (15.0 lb)

### Retrofit Kit for K Brand

(PANK)



7.0 kg (15.4 lb)