Pan American
Professional Lighting Manufacturer



HAZADOUS LOCATIONS LED LUMINAIRE

B SERIES



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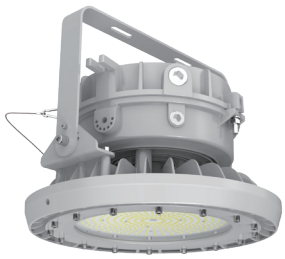
UL CERTIFIED · DNV · 3G Vibration · NEMA Type 4X · IP 66 · IK10 · DIMMABLE · 140 lm/W · 5 YEARS WARRANTY



B2



B5



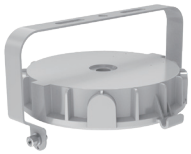
BX



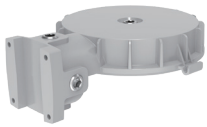
B4



A1 (Ceiling)



B1 (U Bracket)



C1 (Wall)



D1(25° pole)



I1(pending)

Product Description

The B2/B5/BX/B4 Series LED luminaire is the ideal choice for hazardous applications. They can be used in locations where moisture, dirt, dust, corrosion and vibration may be present,or areas where wind, water, snow or high ambient can be expected. Featuring various shapes of driver box cover,this series is designed to meet different requirements of installations.

Feature

- Emergency function is optional
- Compact and rugged structure, easy for installation
- Various kinds of driver box cover available, designed for different installation requirements
- Shock and vibration resistance with IK08/IK10 certified
- High luminous efficacy
- Aluminum housing, great corrosion resistance and cooling performance

Compliance

- **UL 844 Hazardous Locations Class**

  Class I Division 2, Groups A, B, C and D

  Class II Division 1, Groups E, F and G

  Class II Division 2, Groups F and G

  Class III
- **UL 1598 Wet Locations**
- **UL 1598A Marine Outside Type**
- DNV
- Vibration 3G
- NEMA Type 4X
- ABS
- IP66
- IK08 (without wire guard)
- IK10 (with wire guard)

Application

- Power Plants
- Heavy Industrials Storage Facility
- Paper mills
- Wastewater Treatment Plants
- Loading Docks Platforms
- Offshore Environments
- Chemical Processing Facility
- Petrochemical Processing Facility
- Metallurgical industry
- Food and Alcohol industry

Technical Parameter

• Electrical

Model	EX-xxW B2	EX-xxW B5	EX-xxW BX	EX-xxW B4
Rated Wattage	20/25/30/35/40 50/60/70/80/100W	20/30/40/50/60 80/100W	20/40/50/60/80/100/120 150/180/200/240W	150/180/200/250/300 350/400/500/550/600W
Input Voltage	120-277VAC/120-347VAC/277-480VAC			
Emergency Wattage	8W/15W (B3/B4)			
Emergency Period	Optional battery in 1.5h/3h (8W) ; 1.5h (15W) (Only B3 and B4 are allowed to carry emergency supplies.)			
Input Frequency	50/60 Hz			
Power Factor	>0.95			

• Optical

Model	EX-xxW B2	EX-xxW B5	EX-xxW-BX	EX-xxW B4
Lumen Output	2800lm-14000lm	2800lm-14000lm	2800lm-33600lm	21000lm-84000lm
Lumens Per Watt	140lm/W			
CCT	2700K-6500K			
CRI	> 70			
Beam Angle	40°/60°/90°/120°/T2/T3/T5			
Dimming	0-10V / 1-10V dimming optional			

• Ambient Temperature

Model	Temperature Class
EX-40W B2	T5:-40°C to +50°C T4A:-40°C to +65°C
EX-60W B5	T4:-40°C to 40°C T3C:-40°C to 55°C
EX-100W BX	T5:-40°C to 55°C T4A:-40°C to +65°C
EX-300W B4	T5:-40°C to 50°C

**Refer the UL certificate for exact temperature and T-code information.*

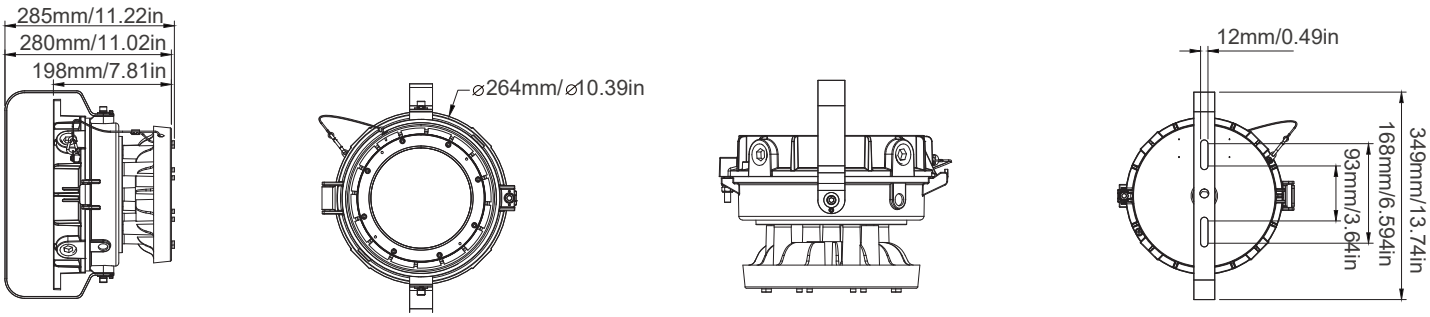
• Mechanical

Model	EX-xxW B2/B5/BX/B4
Housing Material	Die-cast Aluminum
Diffuser Material	Clear Flat Glass
Gasket Material	Silicone Rubber
Hardware	Stainless steel 304
Protection Rating	Ingress protection: IP66 Impack protection: IK08; IK10 (with wire guard)
Mounting Options	Ceiling Mount / U bracket Mount (Included), Pendant Mount / Trunnion Mount (Purchase separately)
Cable Entries	3/4"NPT
Warranty	5-year limited warranty for fixture

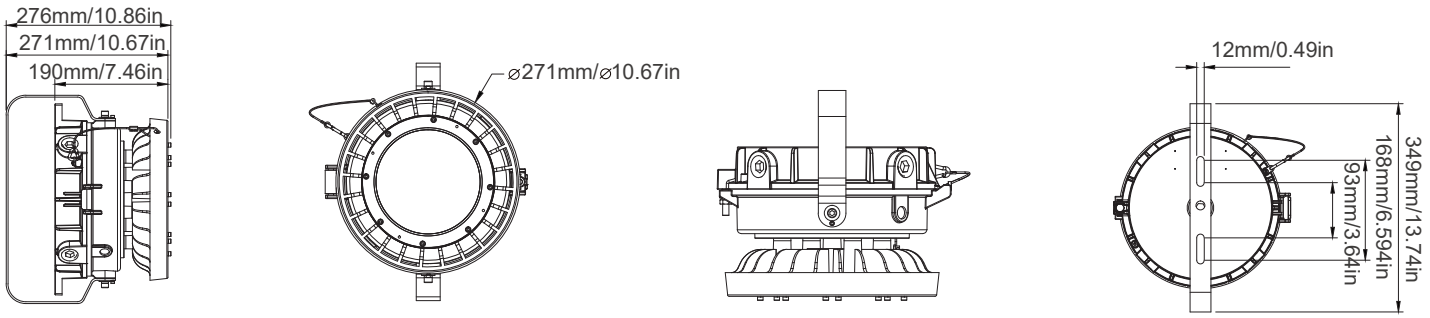
**For cable entries, 3/4" NPT is standard. Others can be achieved with an adapter, and customer needs to indicate which is required when placing an order.*

Product Dimensions Unit: [mm]

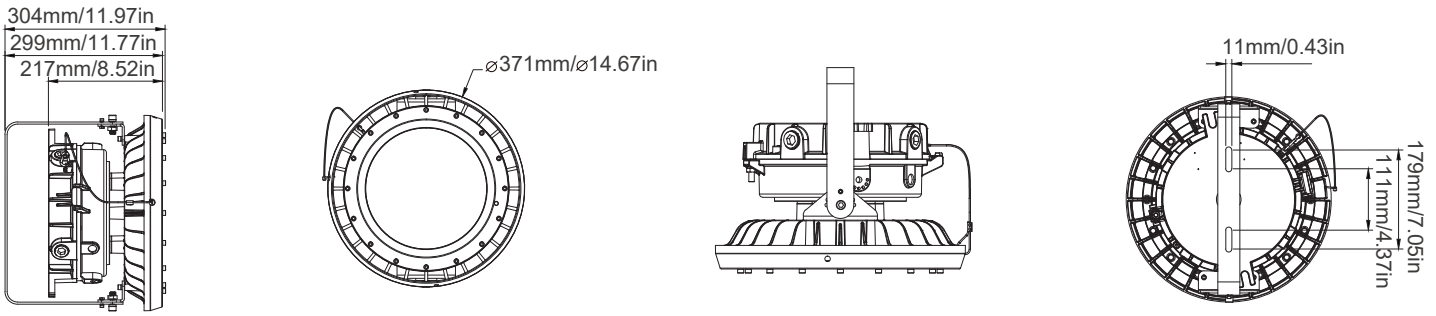
- B2



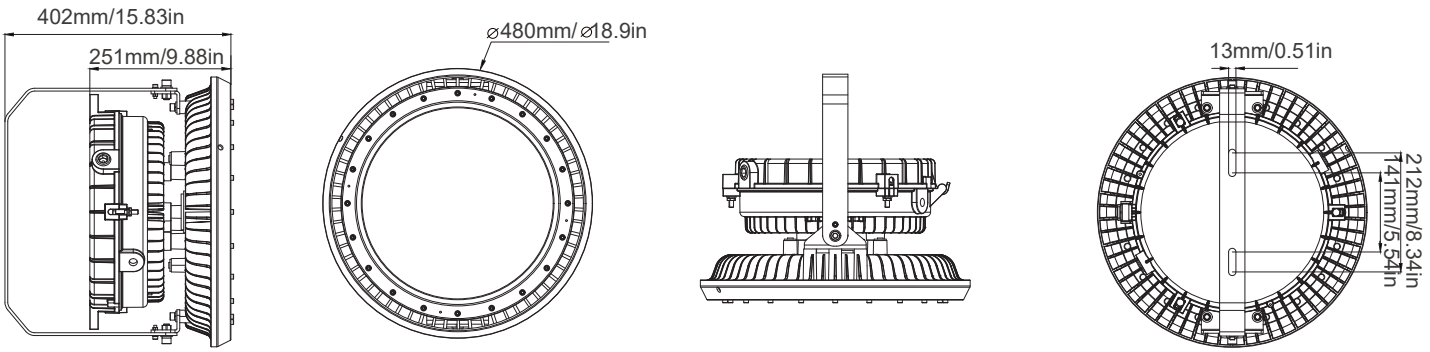
- B5



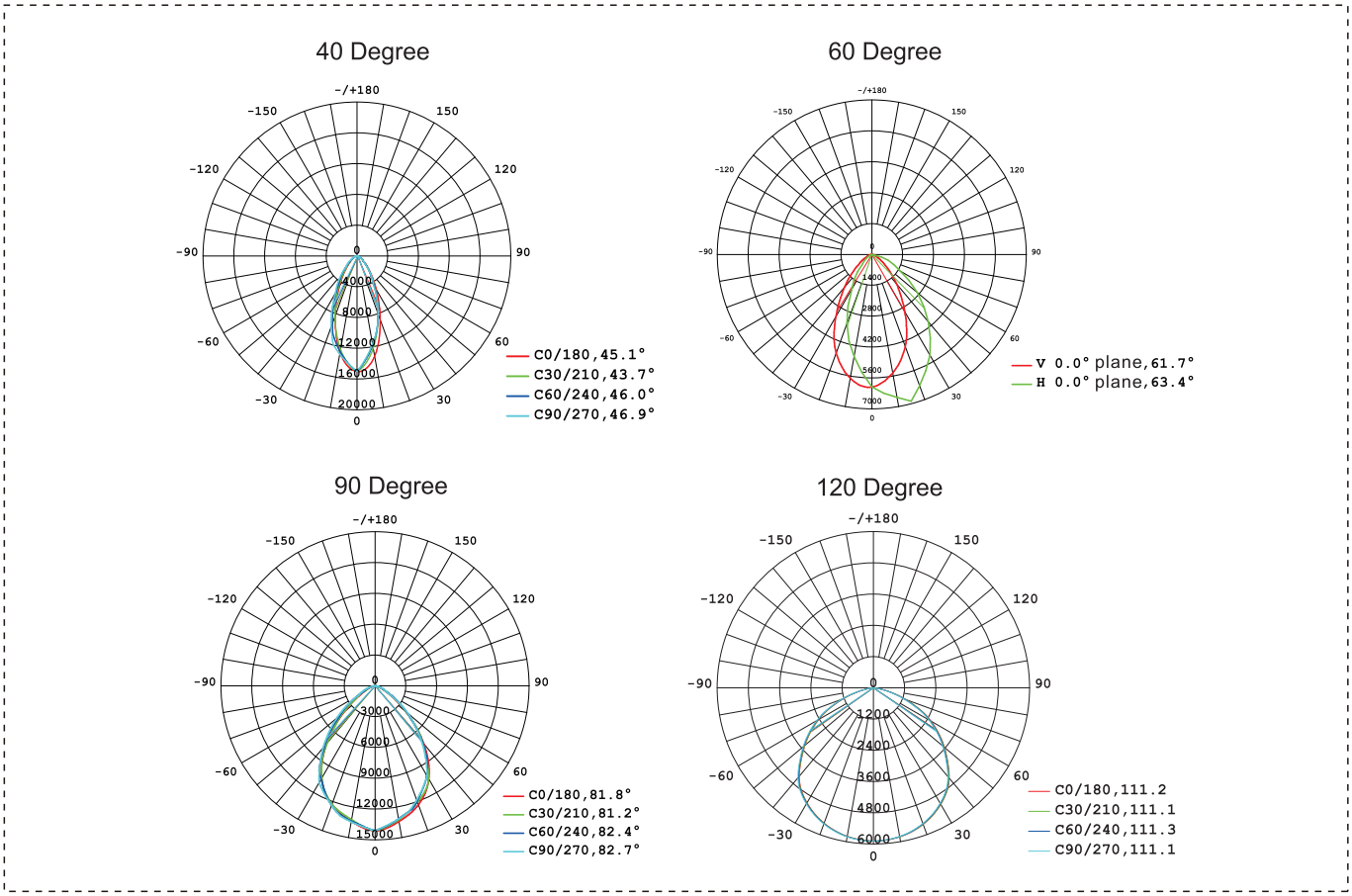
- BX



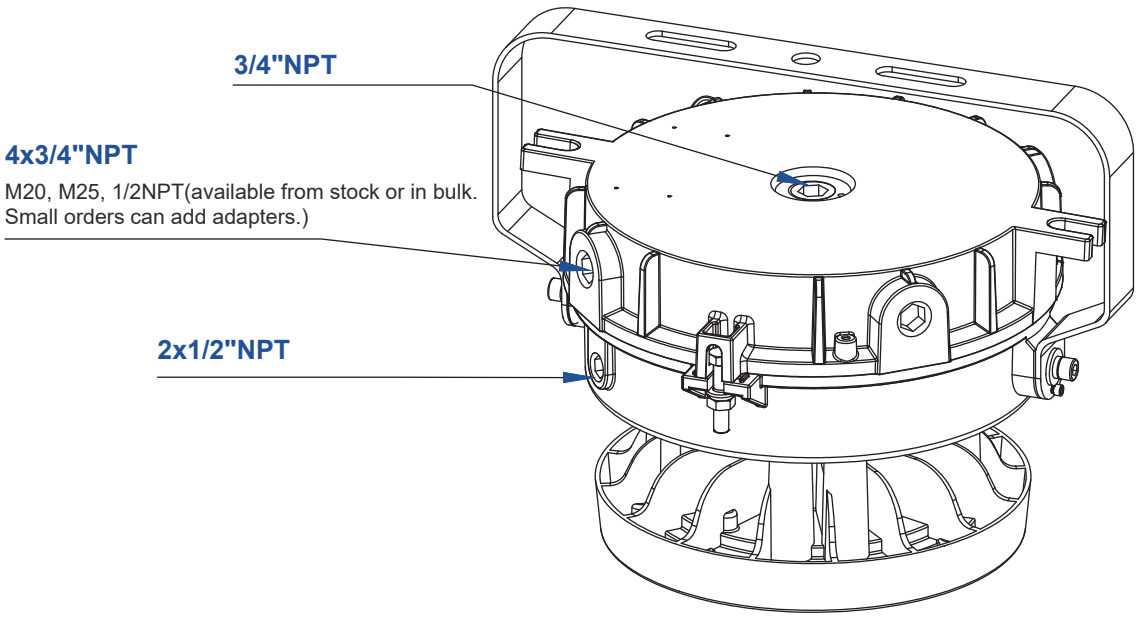
- B4



Photometric

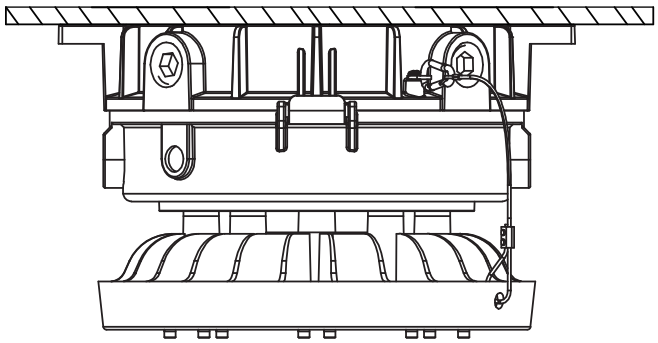


Cable Entries

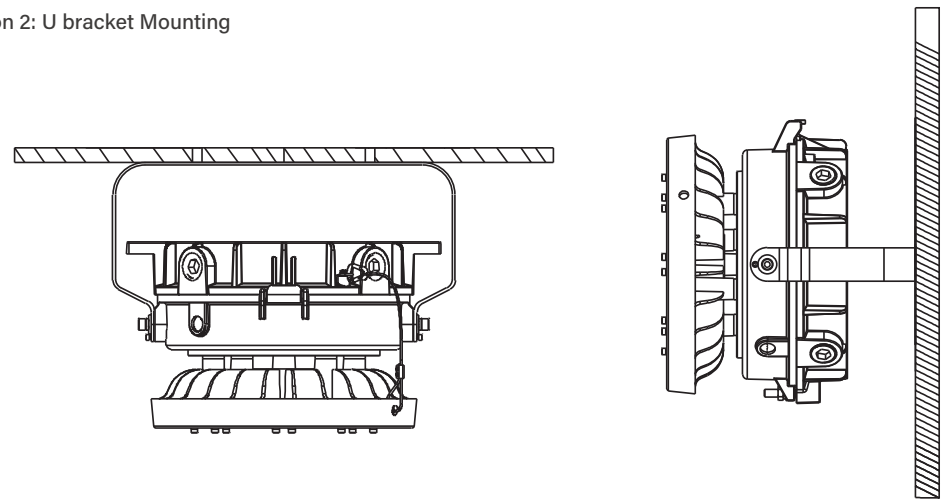


Mounting Methods

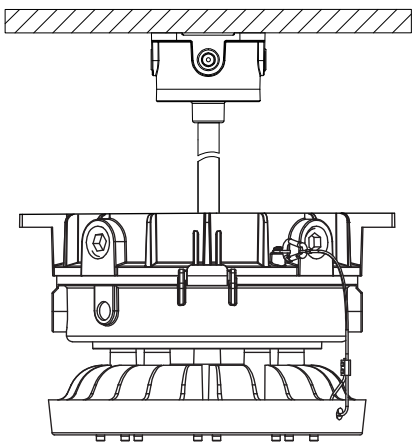
- Option 1: Ceiling Mounting



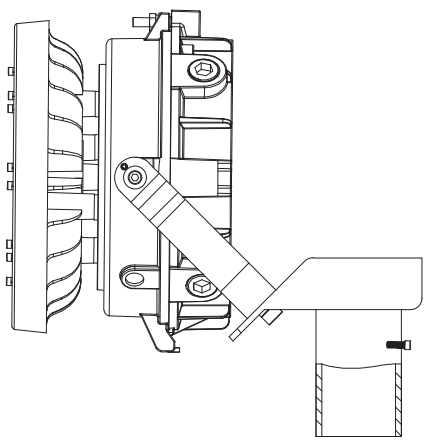
- Option 2: U bracket Mounting



- Option 3: Pendant Mounting



- Option 4: Trunnion Mounting



Packing Information

Model	Net Weight	Gross Weight	Packing Dimensions(LxWxH)	Quantity/Carton
B2	6.4kg/14.11 lb	8 kg/17.65 lb	450x450x300 mm/17.72x17.72x11.81 inch	1 pc
B5	7.3 kg/16.09 lb	8.9kg/19.63 lb	450x450x300 mm/17.72x17.72x11.81 inch	1 pc
BX	11.4 kg/25.13 lb	12.9 kg/28.46 lb	450x450x320 mm/17.72x17.72x12.60 inch	1 pc
B4	17.0 kg/37.48 lb	23.5 kg/51.81 lb	575x575x356 mm/22.64x22.64x14.02 inch	1 pc

Accessories


EX-Bended Pipe


EX-Straight Pipe


EX-HD51-KYD 90°


EX-HD51-KYD 25°


EX-Slip Fitter Kit


EX-90° Wall Mount Kit


EX-25° Wall Mount Kit


EX-90° Stanchion Mount Kit


EX-25° Stanchion Mount Kit


EX-Hook


EX-HD51-KB1

Ordering Guide (B2/B4)

EX - xxW B2/B4 D 27 D40 * * P * 1 H 1 A40 * *

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯

1.EX ---------- **Basic model series:**EX – for all luminaires

2.xxW ---------- **Input wattage rating:**
B2: 20/25/30/35/40/ 50/60/70/80/100W
B4:150/180/200/250/300/350 / 400/500/550/600W

3.B2/B4 ---------- **Lamp Enclosure Heatsink:**
B2= Lamp Enclosure Heatsink (B2) B4 = Lamp Enclosure Heatsink (B4)

4.D ---------- **Dimming function:**D - Dimmable

5.27 ---------- **CCT:**27=2700 K,30=3000 K,40=4000 K,50=5000 K,
57=5700 K,60=6000K,65=6500 K,70=7000K

6.D40 ---------- **Beam angle:**
D40= 40 degrees , D60 = 60 degrees , D90 = 90 degrees
D120= 120 degrees, T2 = 60 degrees, T3 = 90 degrees
T5= 120 degrees

7.* ---------- **Diffuser type**: Blank =Clear Flat Glass (CID2, CIID1, CIID2, CIII)

8.* ---------- **Driver Housing type**: Blank = Driver Box Cover A1

9.P ---------- **Heat Sink type**: P = Heat Sink P, (CID2)

10.* ---------- **Lens Cover type**: Blank = Alternate Enclosure Cover 1 (normal cover)
S = Lamp Enclosure Cover 1 (Step cover)

11.1 ---------- **Designates for LED type:**1 = 5050 (CID2, CIID1, CIID2, CIII)
2 = 2835 (CID2, CIID1, CIID2, CIII)
Blank = 2835 Tunable LED board. (CID2)

12.H ---------- **Input Voltage**: H = 277-480 V, (CID2, CIID1, CIID2, CIII)
Blank = 120-277 V, (CID2, CIID1, CIID2, CIII)
M = 120-347 V. (CID2)

13.1 ---------- **LED Module**: 1 or 2 or 3 or 4 or 5

14.A40 ---------- **LED Driver Group**: *Please refer to the report for detailed data*

15. ---------- **Tunable or not**: Blank = Without Tunable
T = With CCT/Wattage Tunable
TW = With Wattage Tunable

16. ---------- **Backup Power Source**:
Blank = Without Backup Power
-E = With Backup Power

Ordering Guide (B5/BX)

EX	-	xxW	B5/BX	Y	Z	D	E	*	*	*	I	J	K	L	M	N
①		②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯

1.EX ---------- **Basic model series:**EX

2.xxW ---------- **Input wattage rating:**
B:20/30/40/50/60/80/100W B3:20/40/50/60/80/100/120/150/180/200/240W

3.B/B3 ---------- **Series:**B5 = B5 series BX = BX series

4.Y ---------- **Dimming function:** Blank = Not Dimmable D = Dimmable

5.Z ---------- **CCT:**
B/B3 - 20=2000K, 30=3000K, 40=4000K, 50=5000K,
57=5700K, 60=6000K, 65=6500K, 70=7000K

6.D ---------- **Represents Degree**

7.E ---------- **Beam angle:**
40= 40 degrees , 60 = 60 degrees , 90 = 90 degrees
120= 120 degrees, T2 = 60 degrees, T3 = 90 degrees
T5= 120 degrees

8.* ---------- **Diffuser type**: Blank = Clear Flat Glass, (CID2, CIID1, CIID2, CIII)

9.* ---------- **Driver Housing type**: Blank = Driver Box Cover A1

10.* ---------- **Heat Sink type**: Blank = Lamp Enclosure Heatsink P, (CID2 only)

11.I ---------- **Lens Cover type**: Blank = Alternate Enclosure Cover 1 (normal cover)
S = Lamp Enclosure Cover 1 (Step cover)

12.J ---------- **LED type**: 1= 5050; 2 = 2835 Single Color LED Board
Blank = 2835 Tunable LED Board
3 = 2835 Single Color LED Board B

13.K ---------- **Input Voltage**: H = 200-480 V M = 120-347 V
Blank = 100-277/120-277 V

14.L ---------- **LED Driver Group**: *Please refer to the report for detailed data*

15.M ---------- **Tunable or not**:
Blank = Without Tunable
T = With Tunable

16.N ---------- **Backup Power Source**:
Blank = No Backup Power
-E = Backup Power