

Q1/Q2 Series

Hazardous Location LED High Bay





Q1



Q2



Product Description

The Q1/Q2 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.

Ideal Replacement of Eaton's Crouse-Hinds – Champ®

Eaton's Crouse-Hinds – Champ®				
Pendant	Ceiling	Wall	Stanchion	Quad Mount
APM2	CM2	TWM2	JM5	QM25
AMP3	CM3	TWM3	PM5	
HPM2				

Note: Our Q1/Q2 LED luminaires can directly replace Eaton's Crouse-Hinds – Champ® products shown in the chart.

APM2



Different Mounting Kit Design

Ceiling Mount
Driver Cover A



Surface Mount
Driver Cover B



Pendant Mount
Driver Cover B



Wall Mount
Driver Cover C



Stanchion Mount - 25 Degree
Driver Cover D



Note: The small hole in the center of the top is designed for backup. If it is unable to connect wires from the side of the fixture during installation, wires can be connected from this hole.

4 Diffusers Optional



Flat Glass



Convex Glass



Flat Polycarbonate



Convex Polycarbonate

2 Surface Covers Optional



Option 1.
Without-step
Design



Option 2.
With-step
Design

Note: For Q1/Q2, both option 1 and option 2 are available.

Compliance

UL 844 Hazardous Locations
 Class I Division 2, Group A, B, C, D
 Class II Division 1, Group E, F, G
 Class II Division 2, Group F, G
 Class III
 Class I, Zone 2, Group IIA, IIB, IIC
 Zone 21 or 22
 DLC (Pending)
 UL 1598
 UL 1598A
 UL 1598C
 ABS
 IP66
 IK08 (without wire guard)
 IK10 (with wire guard)
 1.5G vibration

Features

- Compact and rugged structure, easy for installation
- Four kinds of driver cover available, designed for different installation requirements
- Emergency function is optional
- Shock and vibration resistance with IK08/IK10 certified and 3G vibration test
- Aluminum housing, great corrosion resistance and cooling performance
- Wire guard is optional

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
- Coal Mine
- Food and Alcohol industry

Warranty

5-Year Standard Warranty



Technical Parameter

• Electrical

Specification	EX-xxxW Q1*YZDEFGHIJKLM	EX-xxxW Q2*YZDEFGHIJKLM
Rated Power	20/30/40/50/60/80/100W	20/40/50/60/80/100/120/150/180/200W
Input Voltage - Normal	100-277/120-347/200-480VAC	
Input Voltage - Emergency	120-277VAC/120-347VAC/200-480VAC	
Input Frequency	50/60Hz	
Power Factor	> 0.95	

• Optical

Specification	EX-xxxW Q1*YZDEFGHIJKLM	EX-xxxW Q2*YZDEFGHIJKLM
Lumen Output	3200-16000lm	3200-28800lm@Max. 180W; 30000lm@200W
Lumens Per Watt	160lm/W	160lm/W@Max. 180W; 150lm/W@200W
CCT	3000K/4000K/5000K/5700K/6500K	
CRI	> 70	
Beam Angle	40°/60°/90°/120°	
Dimming	0-10V dimming optional	

• Environmental

Specification	EX-xxxW Q1*YZDEFGHIJKLM	EX-xxxW Q2*YZDEFGHIJKLM
Ambient Temperature	-40°C to +40°C; -40°C to +50°C; -40°C to +65°C	

• Mechanical

Specification	EX-xxxW Q1*YZDEFGHIJKLM	EX-xxxW Q2*YZDEFGHIJKLM
Housing Material	Copper-free aluminum	
Diffuser (Optional)	Flat glass/Flat polycarbonate/Convex glass/Convex polycarbonate	
Hardware	Stainless steel	
Protection	IP66/IK08 (without wire guard)/IK10 (with wire guard)/1.5G vibration	
Mounting	Ceiling, Surface, Pendant, Wall, Stanchion 25°	
Cable Entries*	3/4" NPT (standard); 1/2" NPT, M20 or M25 (optional)	

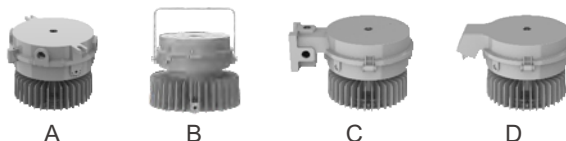
* For cable entries, 3/4" NPT is standard. 1/2" NPT, M20 and M25 can be achieved with an adapter, and customer needs to indicate which is required when placing an order.

Packing Information

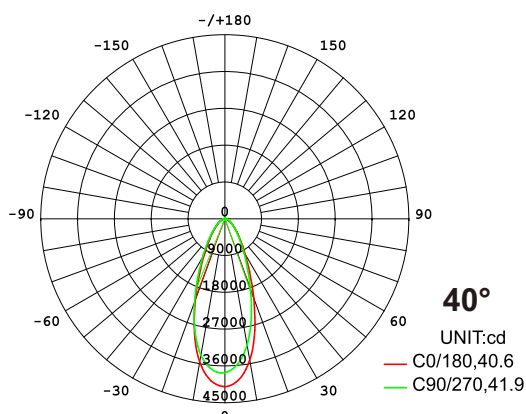
Model	Net Weight (lbs)*				Gross Weight (lbs)*				Quantity/ Carton	Package Dimensions (LxWxH)
	Driver Box Cover Type**				Driver Box Cover Type**					
	A	B	C	D	A	B	C	D		
Q1	14.55	15.43	15.65	14.99	18.96	19.84	20.06	19.40	1 pc	17.72x17.72x11.81inch
Q2	21.61	22.49	22.49	22.05	26.02	26.90	26.90	26.46	1 pc	17.72x17.72x13.78inch

* The listed net weight and gross weight are data for products with Flat Glass diffuser and without wire guard.

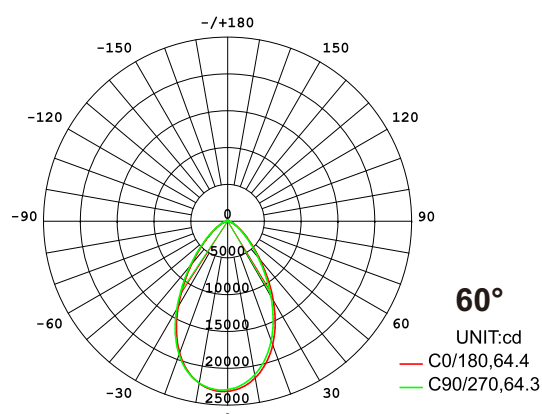
** Driver box cover overview:



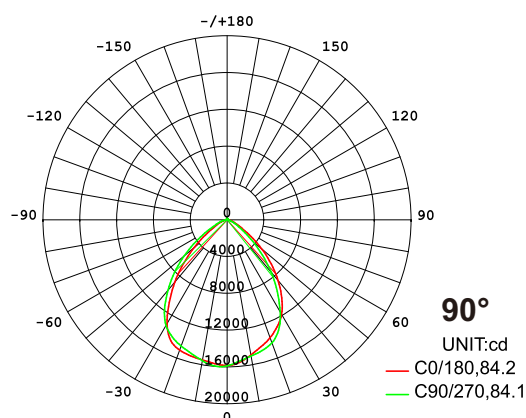
Photometric



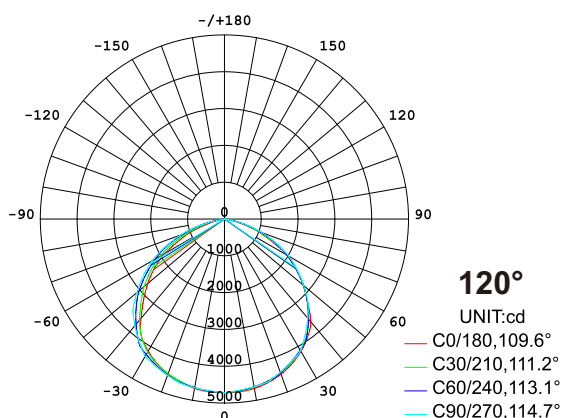
AVERAGE BEAM ANGLE(50%):41.2 DEG



AVERAGE BEAM ANGLE(50%):64.3 DEG



AVERAGE BEAM ANGLE(50%):84.1 DEG



AVERAGE BEAM ANGLE(50%):112.1 DEG

Ordering Guide

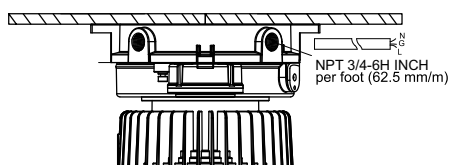
EX - **xxxW** **XX** * **Y** **Z** **D** **E** **F** **G** **H** **I** **J** **K** **L** **M**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

1. Basic Model Series Name		2. Rated Input Wattage		3. Lamp Enclosure Heatsink	
EX = Explosion Proof Product		20W/30W/40W/50W/60W/80W/ 100W/120W/150W/180W/200W		Q1 Q2	
4. Dimming		5. CCT	6. Degree	7. Beam Angle	8. Diffuser Type
Blank = non-dimmable D = dimmable		30 = 3000K 40 = 4000K 50 = 5000K 57 = 5700K 65 = 6500K	“D” represents Degree	40 = 40° 60 = 60° 90 = 90° 120 = 120° T2, T3, T5	Blank = Flat Glass G = Convex Glass P = Convex PC FP = Flat PC
9. Driver Box Cover		10. Backup Power Source		11. Enclosure Cover	
A = Driver Box Cover A B = Driver Box Cover B C = Driver Box Cover C D = Driver Box Cover D		Blank = No Backup Power -EM = Backup Power		A = Alternate Enclosure Cover 1 (Normal Cover) B = Lamp Enclosure Cover 1 (Step Cover)	
12. LED Type	13. Input Voltage		14. Commercial Use 1		15. Commercial Use 2
1 = 5050 Blank = 2835	480 = 200-480V Blank = 100-277/120-347V		1 2		1 2

Mounting Methods and Accessories

• Option 1: Ceiling Mount

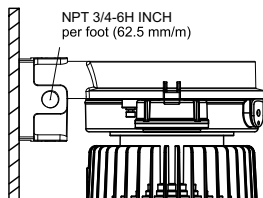


Note: Surface mounting is suitable for model with driver box cover A.

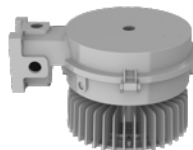


Mounting Methods and Accessories

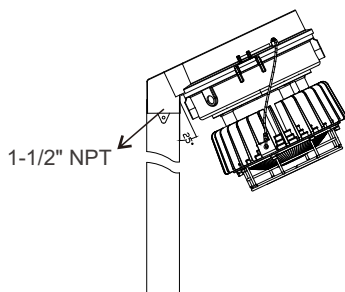
• Option 2: Wall Mount



Note: Wall mounting is suitable for models with driver box cover C.



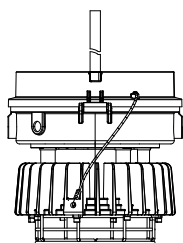
• Option 3: Stanchion 25° Mount



Note: 1. Stanchion mounting is suitable for models with driver box cover D.
2. The thread of the lamp pole interface is 1-1/2" NPT.



• Option 4: Pendant Mount



• Accessory (Ordered Separately)

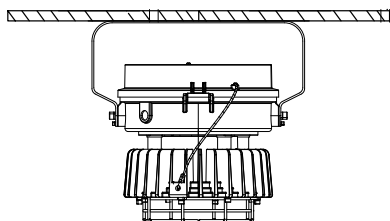


Pole
Ex-Straight Pipe

Note: Pendant mounting is suitable for models with driver box cover B.



• Option 5: Surface Mount



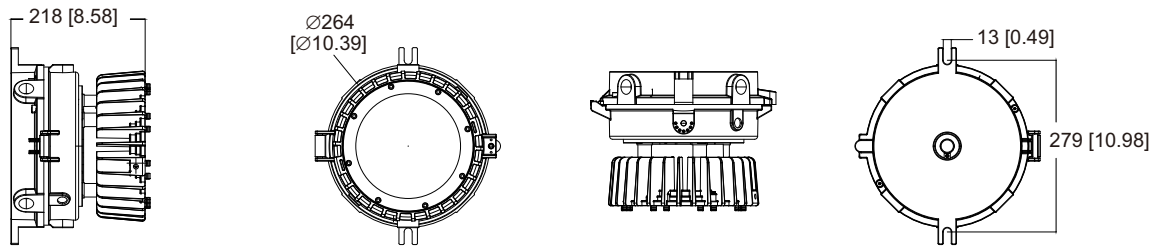
Note: 1. U bracket is standard accessory that is included in the packaging.
2. Surface mounting is suitable for models with driver box cover B.



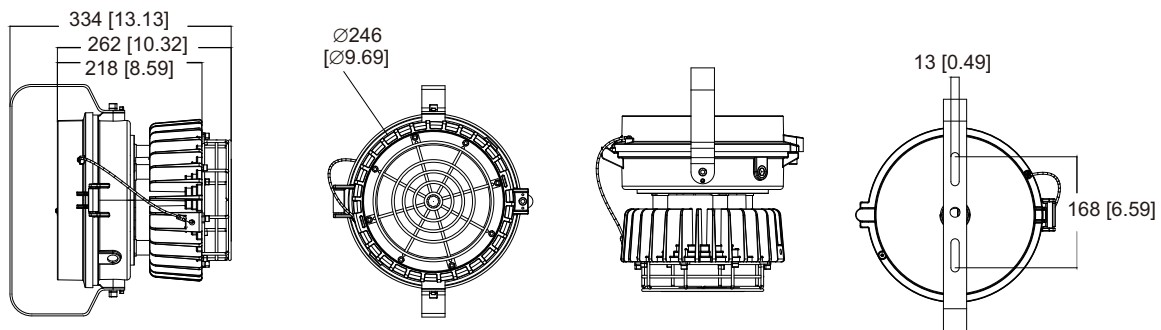
Product Dimensions

Unit: mm [inch]

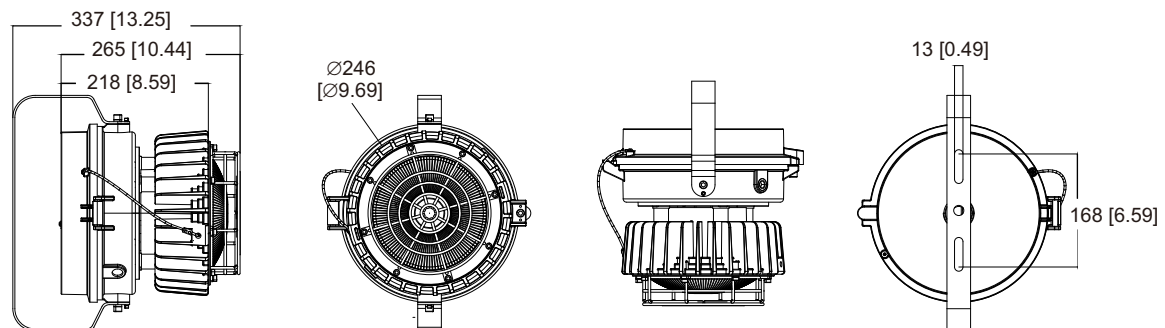
Q1 with driver cover A and flat diffuser



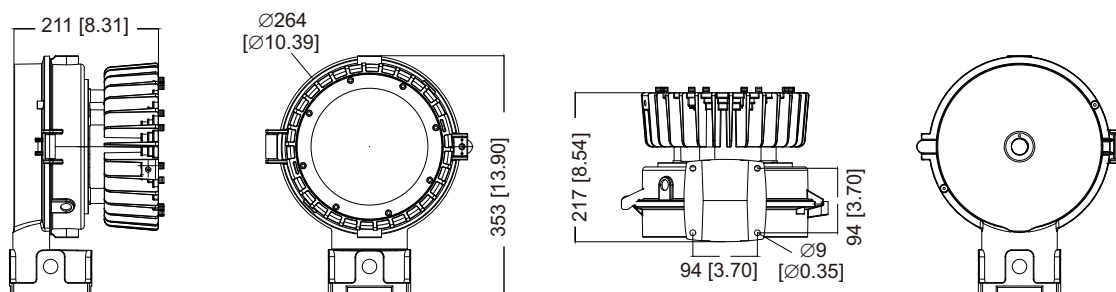
Q1 with driver cover B, wire guard, and flat diffuser



Q1 with driver cover B, wire guard, and convex diffuser (glass or PC)



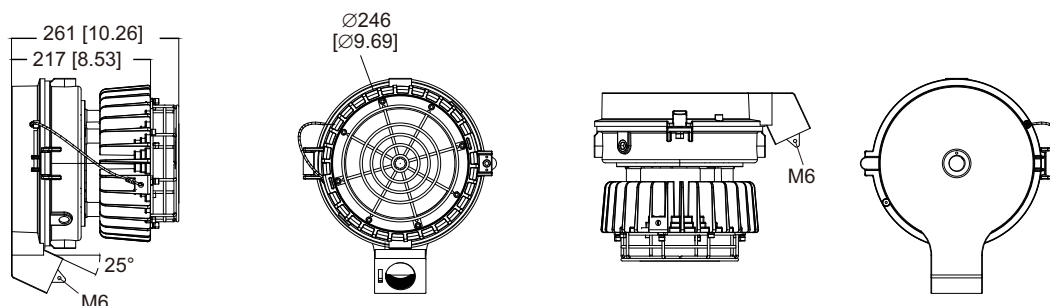
Q1 with driver cover C and flat diffuser



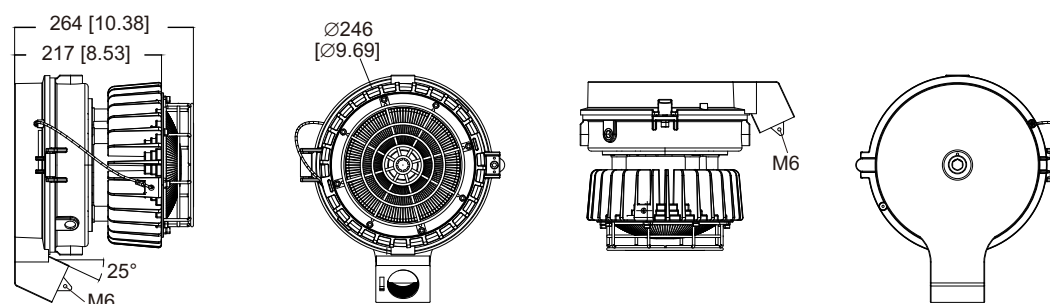
Product Dimensions

Unit: mm [inch]

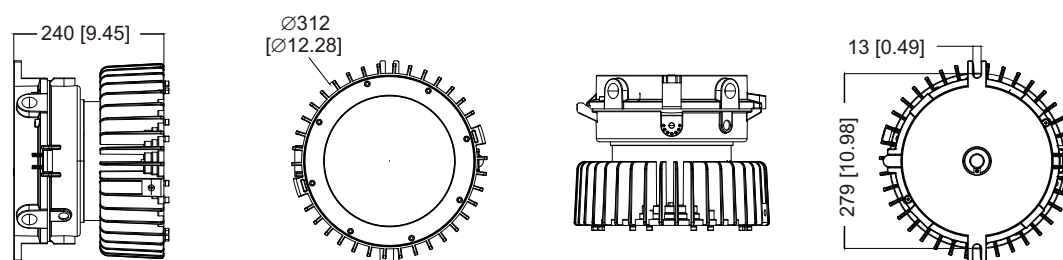
Q1 with driver cover D, wire guard, and flat diffuser



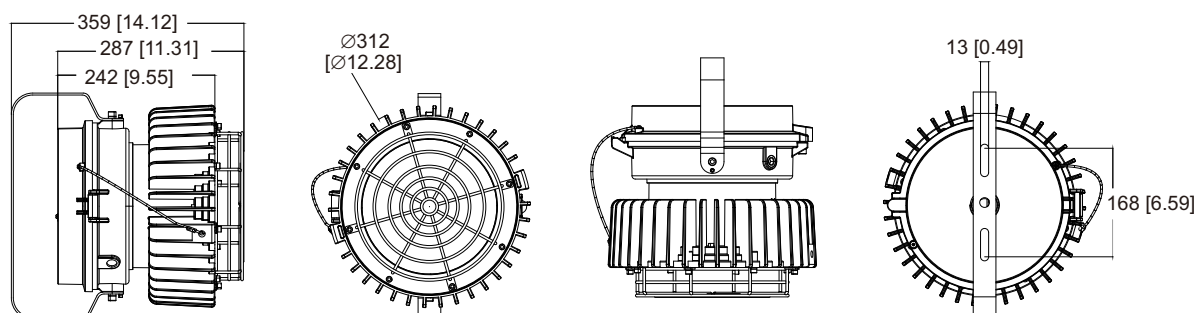
Q1 with driver cover D, wire guard, and convex diffuser (glass or PC)



Q2 with driver cover A and flat diffuser



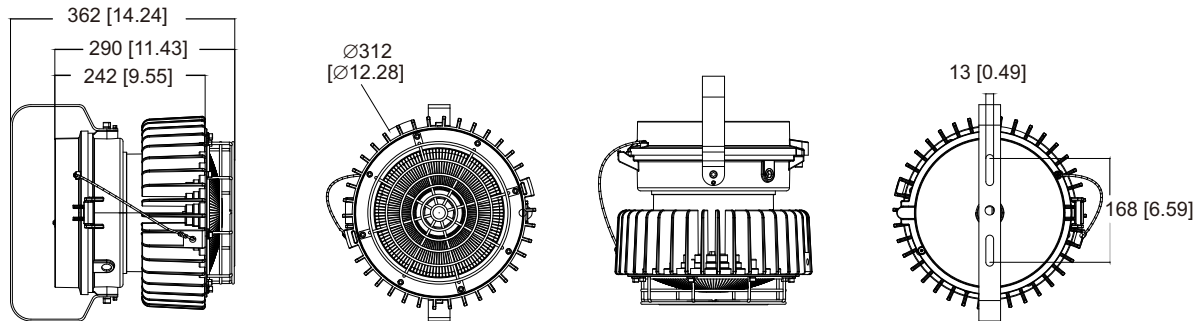
Q2 with driver cover B, wire guard, and flat diffuser



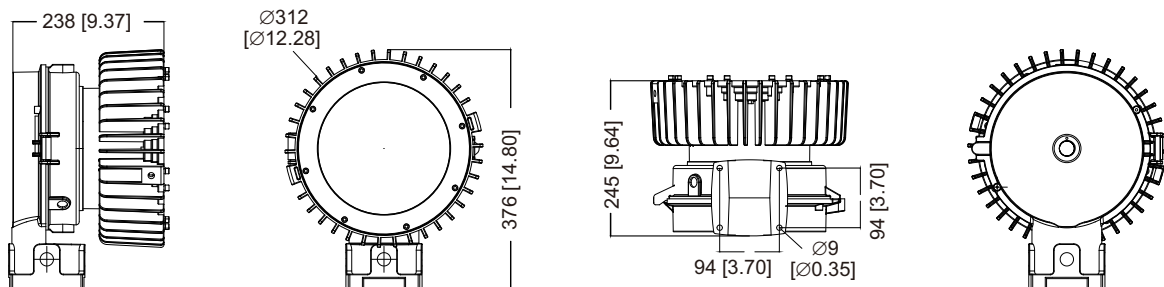
Product Dimensions

Unit: mm [inch]

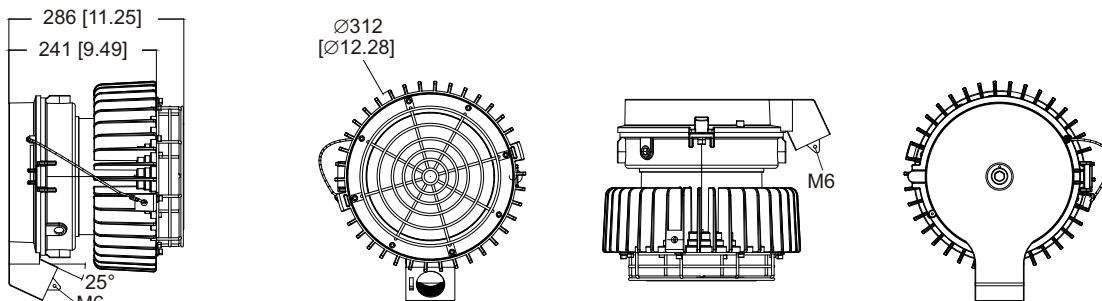
Q2 with driver cover B, wire guard, and convex diffuser (glass or PC)



Q2 with driver cover C and flat diffuser



Q2 with driver cover D, wire guard, and flat diffuser



Q2 with driver cover D, wire guard, and convex diffuser (glass or PC)

