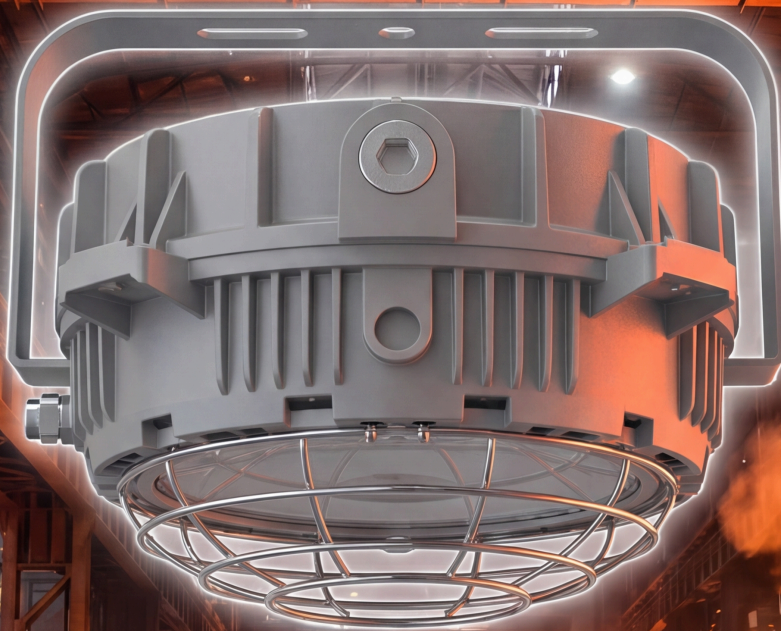




# EX-Q1A Series

Hazardous Location LED Low Bay Light





# EX-Q1A

## Hazardous Location LED Luminaire

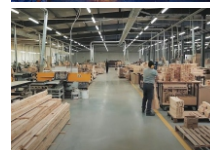
The Q1A Series LED luminaire is the ideal choice for hazardous applications. They can be used in locations where moisture, dirt, dust, corrosion and vibration may be present, or areas where wind, water, snow or high ambient can be expected. Featuring various shapes of driver box cover, this series is designed to meet different requirements of installations.

### 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
- UL1598
- UL1598A
- ABS
- IP66
- IK08 (without wire guard)
- IK10 (with wire guard)

### Applications

- ✓ Heavy Industrials Storage Facility
- ✓ Paper Mills
- ✓ Chemical Processing Facility
- ✓ Power Plants
- ✓ Petrochemical Processing Facility
- ✓ Offshore Environments
- ✓ Wastewater Treatment Plants
- ✓ Food and Alcohol Industry



### Technical Parameter

#### • Electrical

Model	EX-xxxW Q1A* YZDEFGHIJKLM
Rated Power (Adjustable.)	20W(30W)/40W(50W)/60W
Input Voltage	100-277Vac / 277-480Vac
Frequency	50/60Hz
Power Factor	> 0.95
Emergency	Optional

#### • Optical

Model	EX-xxxW Q1A* YZDEFGHIJKLM
Lumen Output	3000-9000lm
Efficacy	150lm/W
CCT (Adjustable.)	4000K/5000K/6000K
CRI	> 70
Beam Angle	120°
Dimming	0-10V dimming optional

#### • Environmental

Model	EX-xxxW Q1A* YZDEFGHIJKLM
Ambient Temperature	-40°C to +40°C; -40°C to +50°C; -40°C to +65°C

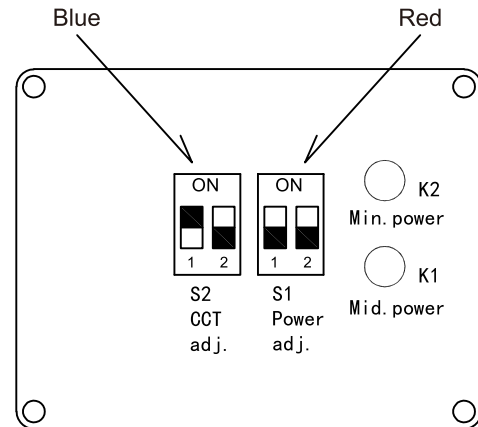
#### • Mechanical

Model	EX-xxxW Q1A* YZDEFGHIJKLM
Housing	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)
Mounting	Ceiling, Surface, Pendant, Wall, Stanchion 25°
Cable Entries	3/4" NPT (standard); 1/2" NPT, M20 or M25 (optional)
Warranty	5 years

## Power and CCT Adjustable

### Power and CCT Adjuster

- (1) Power Adjuster:  
Connect to the 0/1-10V dimming port of the LED driver.
- (2) CCT Adjuster:  
Connect the output voltage of the LED driver: DC20-60V  
LED driver maximum no-load output voltage: 68V max
- The three-gear power setting principle is as follows:  
The first gear is 100%, the second gear is 70-80%, and the third gear is 50-60%. The minimum setting cannot be lower than 50%.

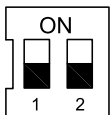


### Operating Instructions

#### S1 DIP switch - Red (S1 Power adj. )

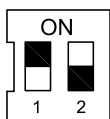
The power adjustment dial switch can be set to three power levels, and the factory default setting can be defined according to order requirements.

1. First gear (Max. power), 100% full power.  
Operation instructions: Dial 1 and 2 are both in the OFF position;



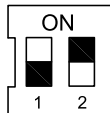
Example: 100W

2. Second gear (Mid. power), 70%-80% power, can be set according to the required power.  
Operation instructions: Dial 1 is in the ON position, Dial 2 is in the OFF position;



Example: 80W

3. Third gear (Min. power), 50%-60% power, can be set according to the required power.  
Operation instructions: Dial 1 is in the OFF position, Dial 2 is in the ON position;

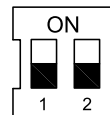


Example: 60W

#### S2 DIP switch - Blue (S2 CCT adj. )

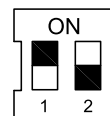
The color temperature dial switch can be set to three levels of color temperature, and the factory default setting can be defined according to order requirements.

1. First gear, the cold white temperature gear, for example, 6000K.  
Operation instructions: Dial 1 and 2 are both in the OFF position;



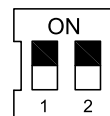
6000K

2. Second gear, the neutral temperature gear, for example, 5000K.  
Operation instructions: Dial 1 is in the ON position, and Dial 2 is in the OFF position;



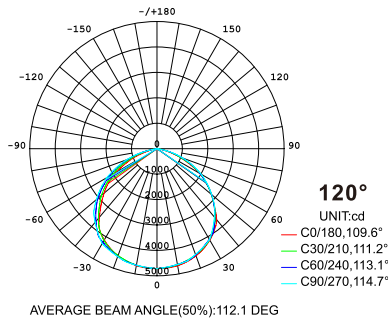
5000K

3. Third gear, the warm white temperature gear, for example, 4000K.  
Operation instructions: Dial 1 and 2 are both in the ON position;



4000K

## Photometric



## 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	4. Dimming	5. Color Temperature	6. Unit of Beam Angle	7. Beam Angle
EX = Explosion Proof Product	20W(30W)/40W(50W)/60W	Q1A	D = dimmable Blank = non-dimmable	40 = 4000K 50 = 5000K 60 = 6000K	D = degree	120 = 120°

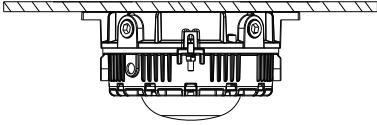
8. Diffuser Type	9. Driver Enclosure Cover	10. Lamp Enclosure Heatsink	11. LED Type
CCG = Clear Convex Glass FCG = Frosted Convex Glass CSG = Clear Spherical Glass FSG = Frosted Spherical Glass Blank = Clear Drop Glass FDG = Frosted Drop Glass CDP = Clear Drop PC FDP = Frosted Drop PC CSP = Clear Spherical PC FSP = Frosted Spherical PC	A = Driver Enclosure Cover A B = Driver Enclosure Cover B C = Driver Enclosure Cover C D = Driver Enclosure Cover D Blank = Driver Enclosure Cover A1 B1 = Driver Enclosure Cover B1 C1 = Driver Enclosure Cover C1 D1 = Driver Enclosure Cover D1	O = Lamp Enclosure Heatsink O Blank = Lamp Enclosure Heatsink P	1 = 5050 2 = 2835

12. Input Voltage	13. LED Driver	14. Backup Power Source
Blank = 120-277V M = 120-347V H = 200-480V or 277-480V	P40 = EX-40W-48B P60 = EX-60W-48BH X25 = XLG-25-AB X50 = XLG-50-AB X75 = XLG-75-H-AB V30 = SS-30VA-56BHL V50 = SS-50VA-56BHL V75 = SS-75VA-56BHL A40 = VA-40V-054B A65 = VA-65V-054B H65 = HVG-65-48AB E75 = SS-75EP-M54BH	Blank = No Backup Power -E = Backup Power

## Mounting Methods

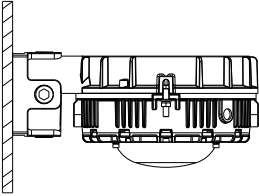
### Option 1: Ceiling Mount

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



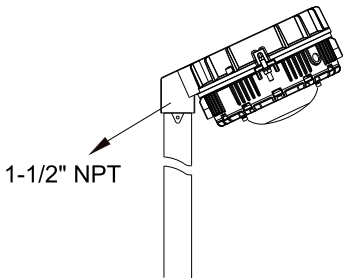
### Option 2: Wall Mount

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



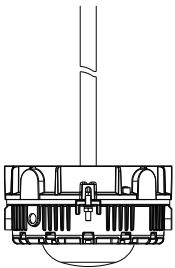
### Option 3: Stanchion 25° Mount

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.



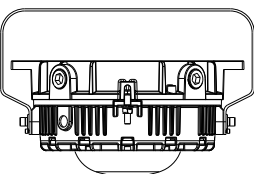
### Option 4: Pendant Mount

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

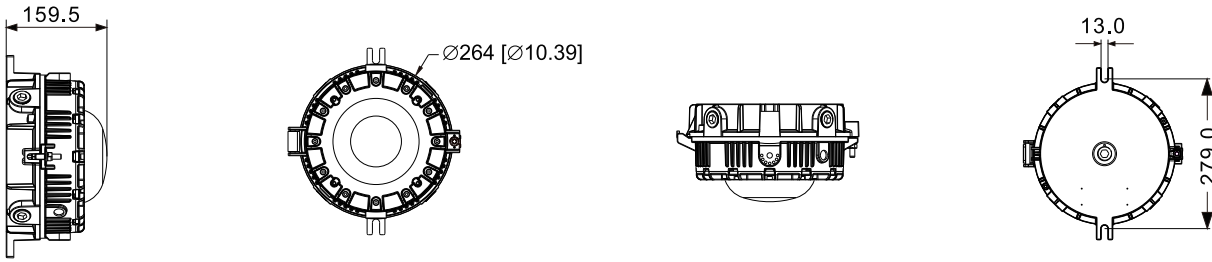


### Option 5: Surface Mount

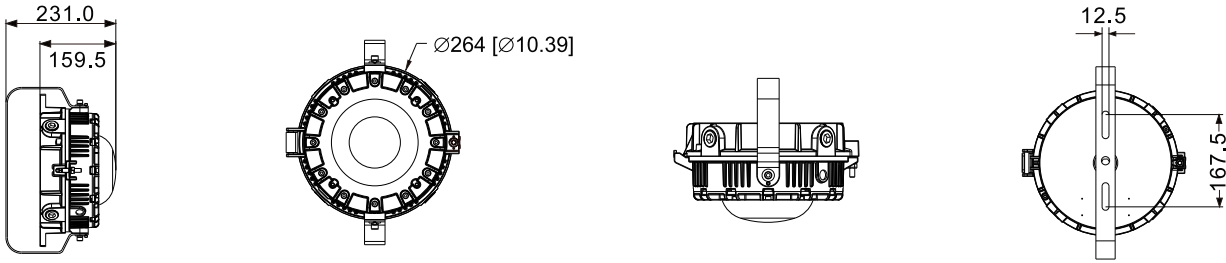
Note: 1. U bracket is standard accessory that is included in the packaging.  
2. Surface mounting is suitable for models with driver box cover B.



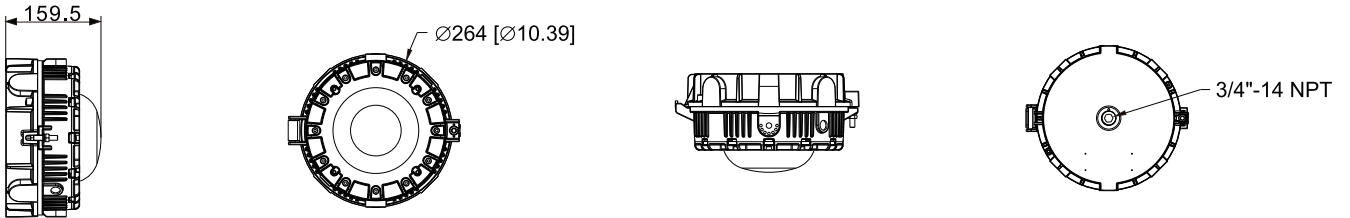
Q1A with Lamp Enclosure Heatsink P, Driver Enclosure Cover A1 and Convex diffuser(glass)



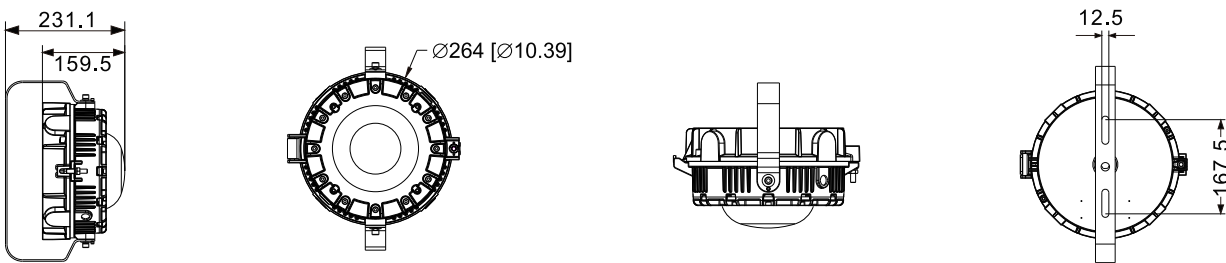
Q1A with Lamp Enclosure Heatsink P, Driver Enclosure Cover A1, U bracket and Convex diffuser(glass)



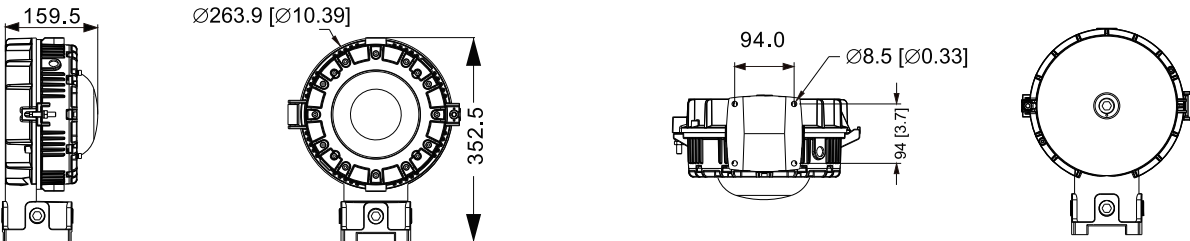
Q1A with Lamp Enclosure Heatsink P, Driver Enclosure Cover B1 and Convex diffuser(glass)



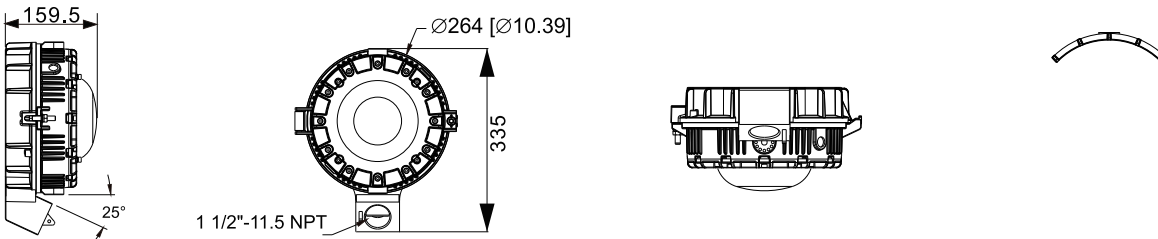
Q1A with Lamp Enclosure Heatsink P, Driver Enclosure Cover B1, U bracket and Convex diffuser(glass)



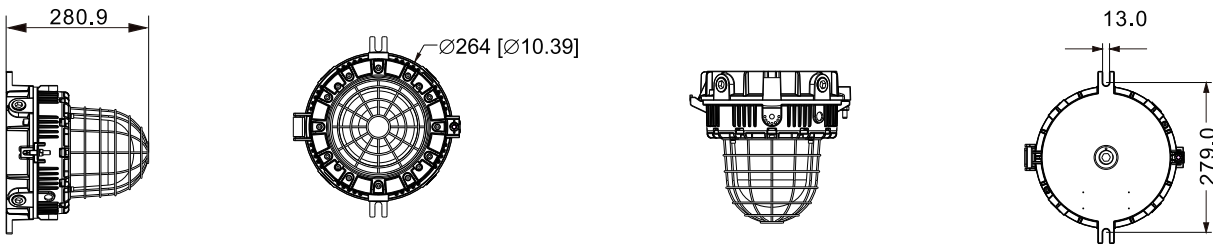
Q1A with Lamp Enclosure Heatsink P, Driver Enclosure Cover C1 and Convex diffuser(glass)



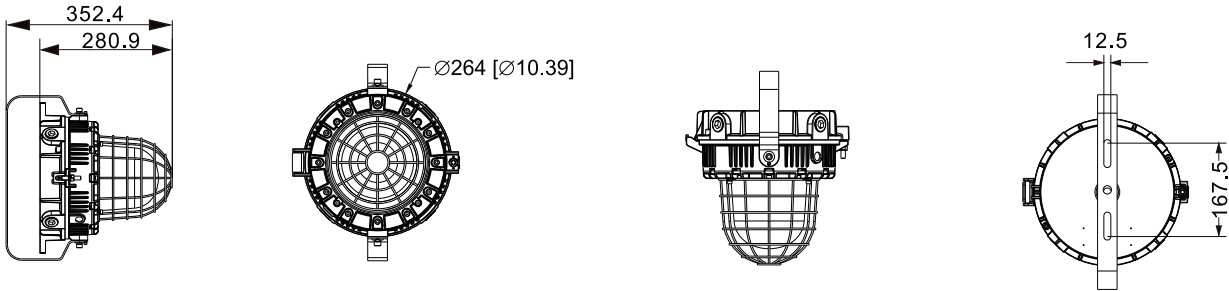
Q1A with Lamp Enclosure Heatsink P, Driver Enclosure Cover D1 and Convex diffuser(glass)



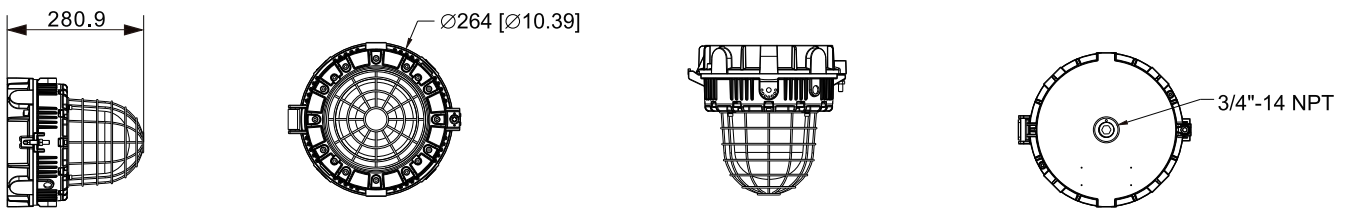
Q1A with Lamp Enclosure Heatsink P, Driver Enclosure Cover A1, wire guard, and Spherical diffuser(glass)



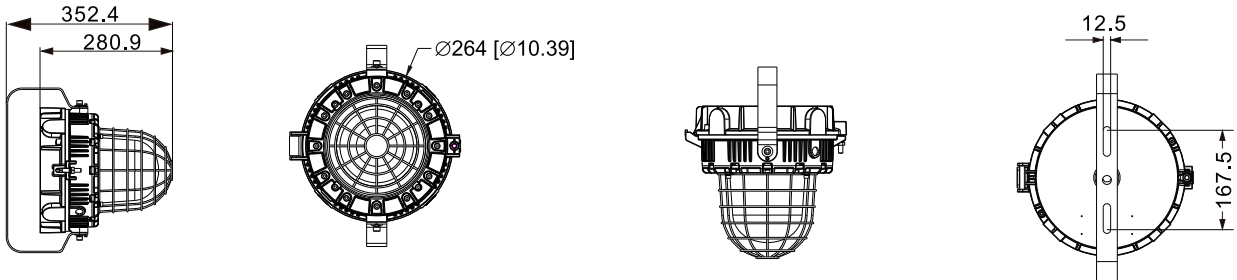
Q1A with Lamp Enclosure Heatsink P, Driver Enclosure Cover A1, U bracket and Convex diffuser(glass)



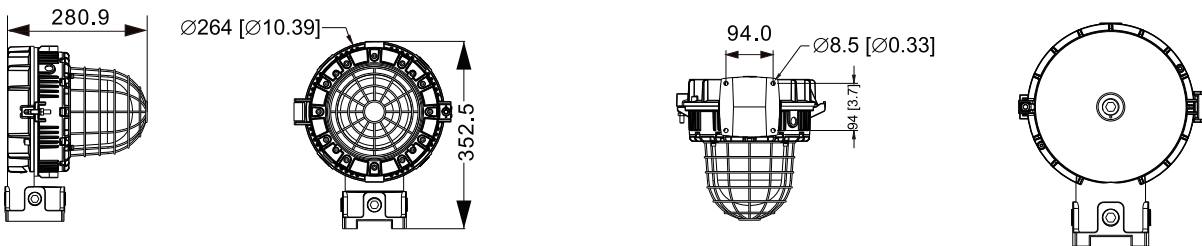
Q1A with Lamp Enclosure Heatsink P, Driver Enclosure Cover B1 and Convex diffuser(glass)



Q1A with Lamp Enclosure Heatsink P, Driver Enclosure Cover B1, U bracket and Convex diffuser(glass)



Q1A with Lamp Enclosure Heatsink P, Driver Enclosure Cover C1 and Convex diffuser(glass)



Q1A with Lamp Enclosure Heatsink P, Driver Enclosure Cover D1 and Convex diffuser(glass)

