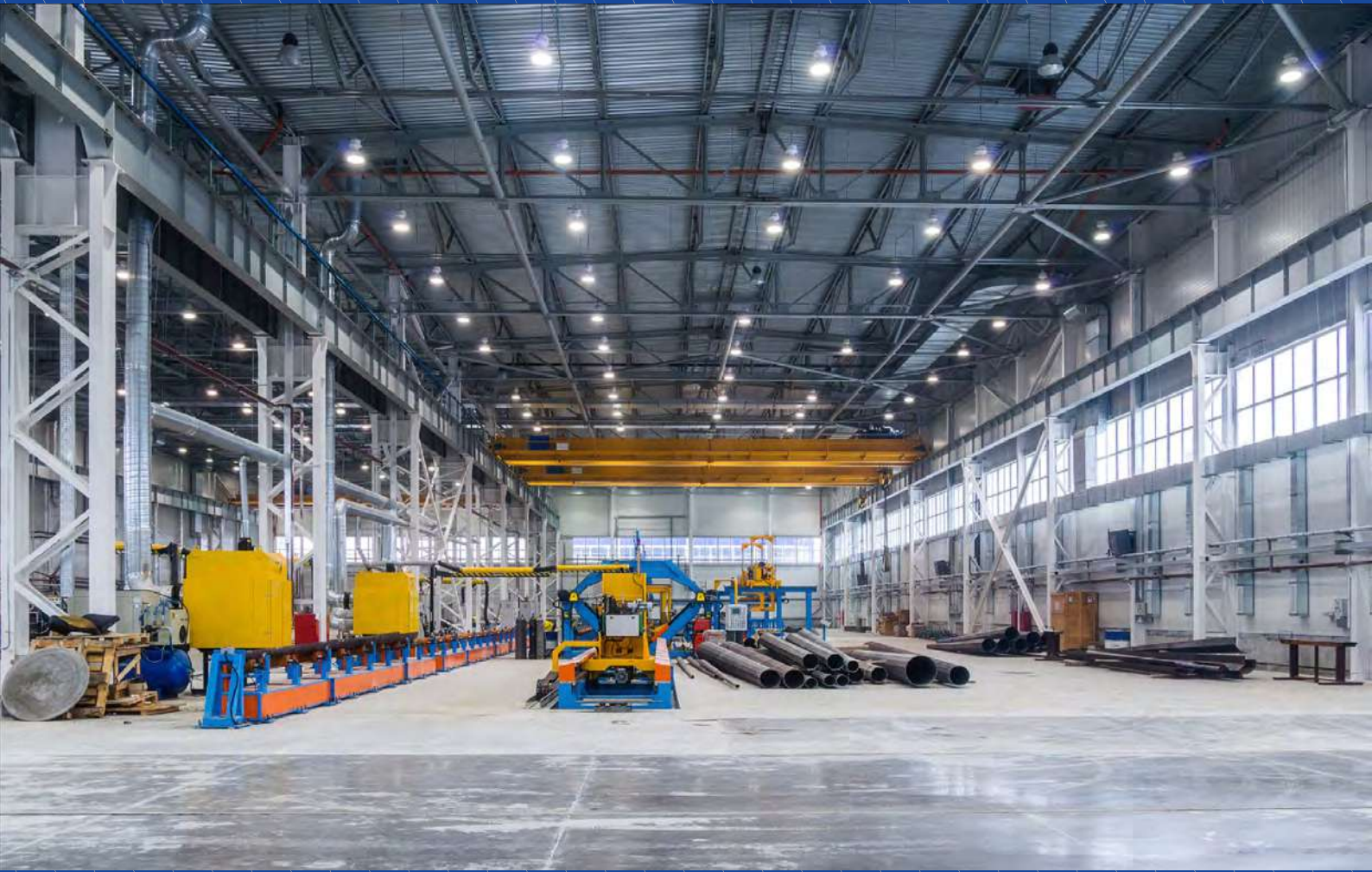


# Durable Lighting Made for Industrial Safety



## Hazardous Location LED Luminaire Q1/Q2/B5/BX Series (for North America)

Specsheet-2023-10 EN



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## Product Overview



Q1



Q2



B5



BX



## Product Description

The Q1/Q2/B5/BX 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 cover, this series is designed to meet different requirements of installations.

## 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

## Four Types of Diffuser Optional



1. Flat Glass



2. Flat Polycarbonate



3. Convex Glass



4. Convex Polycarbonate

## Two Types of Surface Cover Optional



1. without Step Design



2. with Step Design



## 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 20, 21 or 22  
ABS  
IP66  
IK08 (glass cover)  
IK10 (with wire guard)  
3G vibration



## 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  
LED lumen Maintenance: L70> 150,000 Operation Hours@55°C

## Technical Parameter

### • Electrical

| Specification                | EX-xxxW Q1*YZDEFGHI | EX-xxxW Q2*YZDEFGHI                     | EX-xxxW B5*YZDEFGHI | EX-xxxW BX*YZDEFGHI                     |
|------------------------------|---------------------|-----------------------------------------|---------------------|-----------------------------------------|
| Rated Power                  | 20/40/50/60/80/100W | 20/40/50/60/80/100/<br>120/150/180/200W | 20/40/50/60/80/100W | 20/40/50/60/80/100/<br>120/150/180/200W |
| Input Voltage<br>- Normal    | 100-277/200-480VAC  |                                         |                     |                                         |
| Input Voltage<br>- Emergency | 120-277VAC          |                                         |                     |                                         |
| Input Frequency              | 50/60Hz             |                                         |                     |                                         |
| Power Factor                 | > 0.95              |                                         |                     |                                         |

### • Optical

| Specification   | EX-xxxW Q1*YZDEFGHI           | EX-xxxW Q2*YZDEFGHI | EX-xxxW B5*YZDEFGHI | EX-xxxW BX*YZDEFGHI |
|-----------------|-------------------------------|---------------------|---------------------|---------------------|
| Lumen Output    | 2600-13000lm                  | 2600-26000lm        | 2600-13000lm        | 2600-26000lm        |
| Lumens Per Watt | 130lm/W                       |                     |                     |                     |
| CCT             | 3000K/4000K/5000K/5700K/6500K |                     |                     |                     |
| CRI             | > 70                          |                     |                     |                     |
| Beam Angle      | 40°/60°/90°/120°              |                     |                     |                     |
| Dimming         | 0-10V dimming                 |                     |                     |                     |

### • Environmental

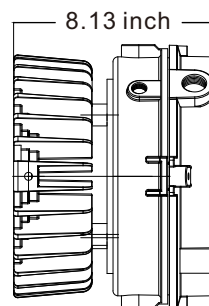
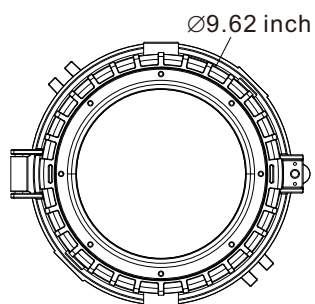
| Specification                 | EX-xxxW Q1*YZDEFGHI                            | EX-xxxW Q2*YZDEFGHI | EX-xxxW B5*YZDEFGHI | EX-xxxW BX*YZDEFGHI |
|-------------------------------|------------------------------------------------|---------------------|---------------------|---------------------|
| Ambient Operating Temperature | -40°C to +40°C; -40°C to +50°C; -40°C to +65°C |                     |                     |                     |

### • Mechanical

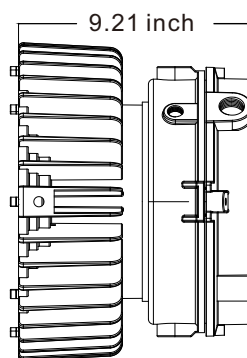
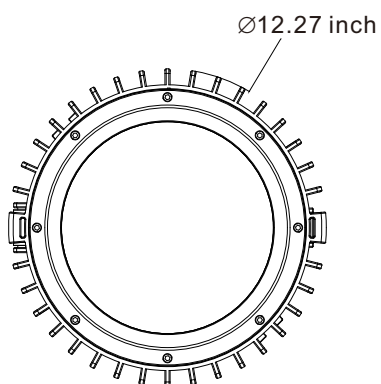
| Specification       | EX-xxxW Q1*YZDEFGHI                                             | EX-xxxW Q2*YZDEFGHI | EX-xxxW B5*YZDEFGHI | EX-xxxW BX*YZDEFGHI |
|---------------------|-----------------------------------------------------------------|---------------------|---------------------|---------------------|
| Housing Material    | Copper-free aluminum                                            |                     |                     |                     |
| Diffuser (Optional) | Flat glass/Flat polycarbonate/Convex glass/Convex polycarbonate |                     |                     |                     |
| Hardware            | Stainless steel                                                 |                     |                     |                     |
| Protection          | IP66/IK08 (glass cover)/IK10 (with wire guard)/3G vibration     |                     |                     |                     |
| Mounting            | Surface, Stanchion, Wall, Bracket, Pendant                      |                     |                     |                     |
| Cable Entries       | 3/4 NPT, 1/2 NPT, M20 or M25                                    |                     |                     |                     |

## Product Dimensions

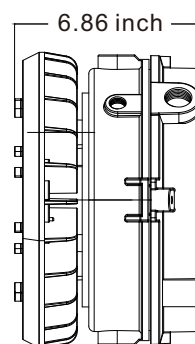
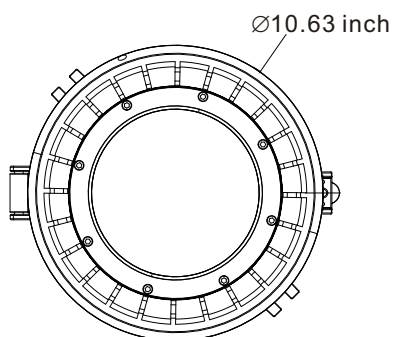
Q1



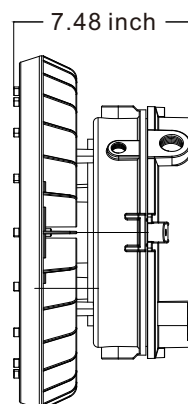
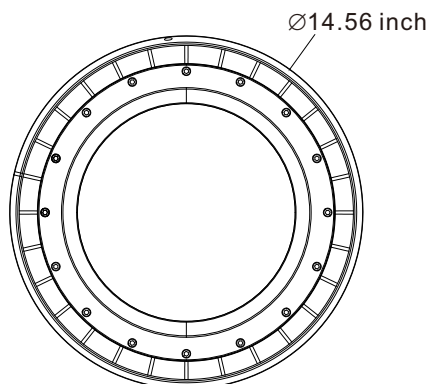
Q2



B5

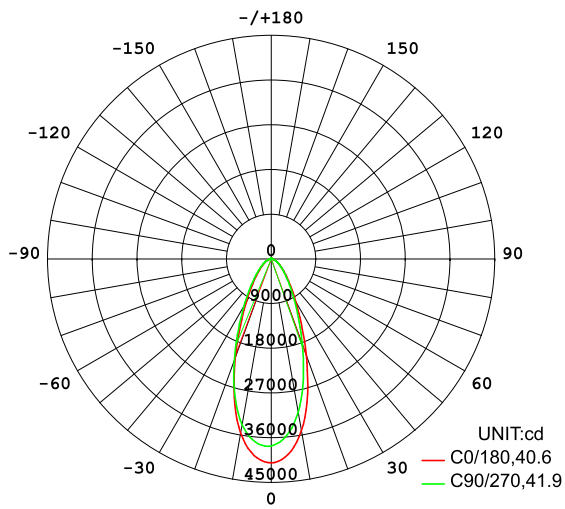


BX

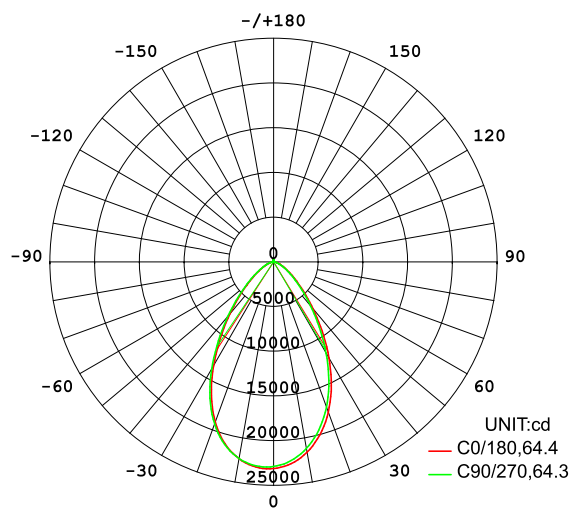


## Photometric

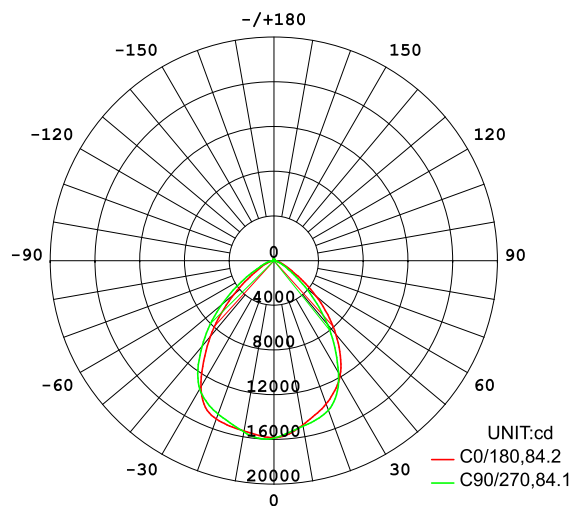
40 Degree



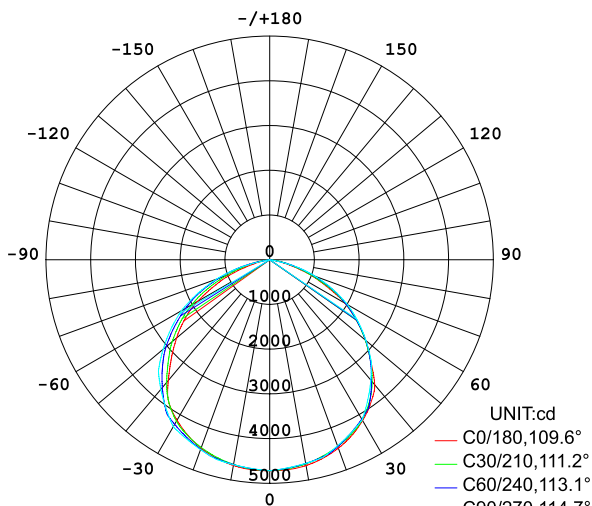
60 Degree



90 Degree



120 Degree



## Mounting (Four Driver Covers for Different Mounting Ways)

|              | Driver Cover A<br>Surface Mount                                                     | Driver Cover B<br>U-bracket Mount    Pendant Mount                                                                                                                        | Driver Cover C<br>Stanchion Mount                                                    | Driver Cover D<br>Wall Mount                                                          |
|--------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Q1/Q2</b> |    | <br>    |    |    |
| <b>B5</b>    |    | <br>    |    |    |
| <b>BX</b>    |  | <br> |  |  |

Notice: The small hole in the center of the top is designed for backup. If the user is unable to connect wires from the side of the lamp during installation, they can connect wires from this hole.

## Ordering Guide

EX - xxxW Qx \* Y Z D E F G H I

1                      2                      3                      4    5    6    7    8    9    10   11

| 1. Basic Model Series Name      | 2. Rated Input Wattage                                      | 3. Lamp Enclosure Heatsink      |
|---------------------------------|-------------------------------------------------------------|---------------------------------|
| EX =<br>Explosion Proof Product | Can be:<br>20W/40W/50W/60W/80W/<br>100W/120W/150W/180W/200W | Can be:<br>Q1<br>Q2<br>B5<br>BX |

| 4. Dimming                  | 5. CCT                                                                            | 6. Degree                   | 7. Beam Angle                                                                             | 8. Diffuser Type                                                                                               |
|-----------------------------|-----------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| "Y" can be:<br>D = dimmable | "Z" can be:<br>30 = 3000K<br>40 = 4000K<br>50 = 5000K<br>57 = 5700K<br>65 = 6500K | "D"<br>represents<br>Degree | "E" can be:<br>40 = 40°, 60 = 60°<br>90 = 90°, 120 = 120°<br>T2 = 40°, T3 = 60°, T5 = 90° | "F" can be:<br>Blank = Flat Glass<br>G = Convex Glass<br>P = Convex PC<br>FP = Flat PC<br>SG = Spherical Glass |

| 9. Driver Box Cover                                                                                 | 10. Backup Power Source                                      | 11. Enclosure Cover                                                                                         |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| "G" can be:<br>A = Driver Cover A<br>B = Driver Cover B<br>C = Driver Cover C<br>D = Driver Cover D | "H" can be:<br>Blank = No Backup Power<br>-EM = Backup Power | "I" can be:<br>A = Alternate Enclosure Cover 1<br>(Normal Cover)<br>B = Lamp Enclosure Cover 1 (Step Cover) |