



DOUBLY-SAFE CHAMBER LIGHT-LED

BIRNS has more than a half century of experience in creating trusted innovations for the commercial diving and subsea markets. Now the next generation of LED illumination emerges in our renowned lines of high performance area lights for PVHO applications.



High Performance . . . Under Pressure

Part of the acclaimed BIRNS "L" series, the BIRNS Doubly-Safe Chamber Light-LED™ provides brilliant 5200K white light illumination with a 50,000 hour rated lamp life for pressurized helium/oxygen use in submarines, diving bells and decompression chambers. This versatile 117 lumen LED light features the exclusive BIRNS Doubly-Safe dual helium release method—making the entire front of the light its own helium release valve—in addition to its trusted stainless steel release mechanism.

The BIRNS Doubly-Safe Chamber Light-LED comes complete with six different interchangeable lens options, to seamlessly adapt to a wide range of lighting applications, from bright to ambient illumination. (Lenses come in Clear, Frosted, Blue and Blue Frosted, Red and Red Frosted.) Plus, this unique system has a superior heat-sink design to keep it operating safely and efficiently. In fact, like many of the company's products, the BIRNS Doubly-Safe Chamber Light-LED meets and/or exceeds all applicable, stringent Det Norske Veritas, Lloyd's of London and Underwriters Laboratories requirements.

EXCLUSIVE FEATURES

- Brilliant 5,200K white LED illumination
- 50,000 hour rated lamp life
- Two helium release methods for unmatched safety
- Superior heat-sink design
- Low profile (Ø76mm / 3" OD), mountable almost anywhere
- Case ground (earth) connection
- Six lens options/wide range of lamp options
- Seamlessly mounts to a variety of ceilings or structure walls
- 12v-24v/4w LED lamp operates well on AC or DC



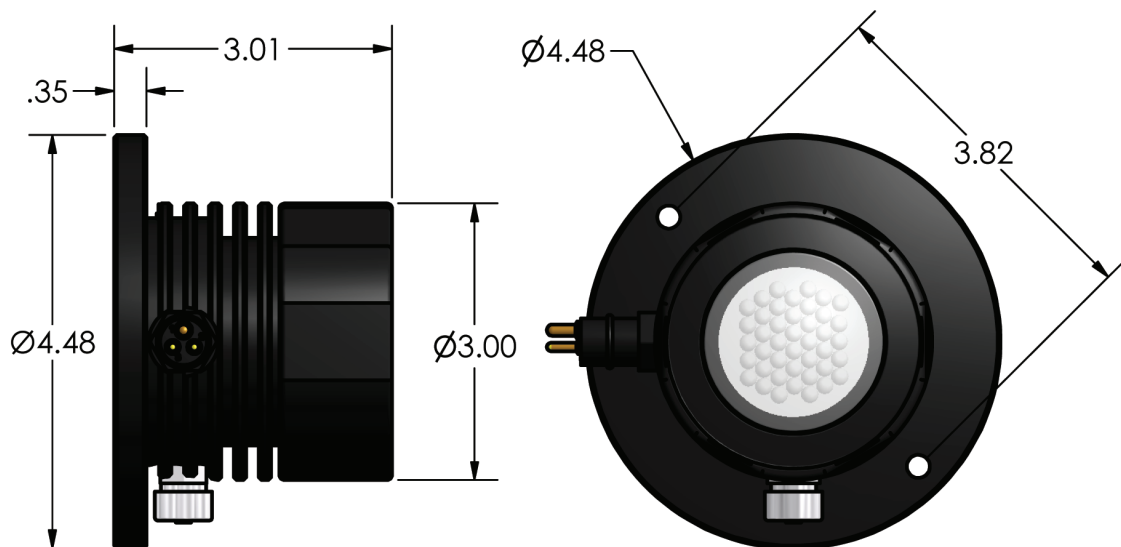
ISO 9001:2008-Certified

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SPECIFICATIONS

ORDERING CODES

- **Model 4123 BIRNS Doubly-Safe Chamber Light-LED**
- **Model CEF3S16-xxx BIRNS Power Cable Assembly**, xxx-feet long; includes standard cable connector on 16/3 Aquaprene SO cable
- **Model 4124 BIRNS Aquila-LED with Switch** (specify your choice of lamp). *Note: this model includes an integral 6-foot power cable.*



Lens Options

- 35A-007 Clear (default)
- 35A-009 Frosted
- 35A-011 Blue
- 35A-012 Blue-frosted
- 35A-014 Red
- 35A-015 Red-frosted

Materials

All housing parts: 6061 Aluminum, hard black anodized per MIL-A-8625, Type III, Class 2
 Lens: Tempered Borosilicate glass
 Connector: Glass-reinforced epoxy (GRE)

Physical

Length: 76 mm (3.0 in.)
 Body diameter: Ø76 mm (Ø3.0 in.)
 Base diameter: Ø114 mm (Ø4.5 in.)
 Mounting: 2 x Ø6.4 mm (Ø.25 in.) holes on Ø97 mm (Ø3.82 in.) bolt circle
 Weight in Air: 450 g (1.0 lb)

Environmental

Protection Level: IP 68
 Depth Rating: 300 M (1,000 FSW)
 Helium Release Valve Cracking pressure:
 5 ± 1 PSI (0.34 ± 0.07 bar)
 Helium Release Valve Resealing pressure:
 4 ± 1 PSI (0.28 ± 0.07 bar)

Photometric

Lamp Type: Light-emitting diode array
 Time to full brightness: <1 second after application of power
 Operating Position: Universal (i.e. any position)
 Color Temperature: 5200K
 Rate Lamp Life: 50,000 hours

Electrical

Input Voltage: 12 or 24 VAC/VDC
 Power Consumption: 4 watts
 Cable Size: 16 AWG type SO, 3 conductor (standard)
 Cable Current Rating: 12 amperes maximum
 Cable Voltage Rating: 600 volts maximum
 Ground (Earth) wire size: 16 AWG; case ground to housing