

CORONA MAJOR™

The BIRNS Corona Major[™] is an exceptionally durable and dependable tungsten halogen fuel pool lighting fixture. It delivers 50,000 lumens of 3200K white light, yet is easily decontaminated and relamps in 60 seconds, tool-free. It requires no heavy ballast to operate, and is designed for underwater use in areas with high levels of radiation and nuclear contamination.



High Performance . . . Under Pressure®

The BIRNS Corona Major, BIRNS Model 5214, features a parabolic reflector and a tempered borosilicate glass lens, and its lamp operates inside a dry, oneatmosphere chamber, which is further protected by a rugged polycarbonate shield. It includes a robust mounting yoke, and can secure to a selection of different BIRNS mounting poles. The BIRNS Corona Major's housing is free flooding for high-efficiency water cooling, yet is compatible with all commercial grade Class A GFCIs (ground-fault circuit interrupters). The system incorporates a BIRNS subsea grade stainless steel connector, so that the power cord can be quickly detached, without tools, and includes a lamp and a Lexan protector. It features instant ON/OFF and hot-restrike capability, with complete dimming capability (0-100%).



EXCLUSIVE FEATURES

- Brilliant 3200K/ 50,000 lumen illumination
- 60-second tool-free relamping / very easy maintenance
- Instant ON/OFF and ballast-free operation
- Complete dimming capability (0-100%)
- Parabolic reflector
- Compatible with commerciallyavailable lamps

- Rugged, all stainless steel inside-containment construction
- Integral subseagrade underwater connectors, designed for easy operation
- All captivated hardware
- Engineered for the ultimate in worker safety; all smooth, rounded edges

APPLICATIONS

The BIRNS Corona Major is widely used as a generalarea lighting fixture in new and spent fuel pools, and tailored for localized inspection and for in-core use during refuel operations. It can be tilted on its axis for seamless directional lighting and is trusted for long-term illumination of fuel pools and transfer canals and used extensively for other large-scale activities.



BIRNS' Quality Management System is ISO 9001:2015 Certified; NRC 10CFR50, App. B Compliant



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SPECIFICATIONS

ORDERING INFORMATION

- BIRNS Model 5214
- Power Cable Assembly 17F-059

Optional Mounting Poles

Std. 1.5m/5 ft. long; other lengths optional

- 44N-002 with bail and T-bar
- 44N-010 with bail, T-bar and hook

Mounts

BIRNS offers a wide range of poles and other standard mounting and suspension products, and engineers custom mounting products to suit specific configurations and requirements.

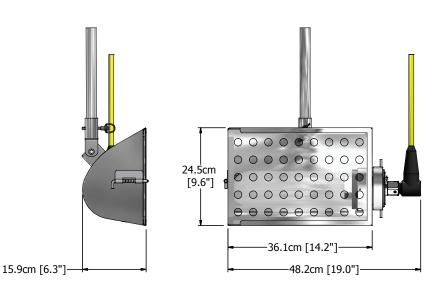


Bail and T-bar (44N-002)



Bail, T-bar and hook (44N-010)





Weight in air: 10.5kg (23.0 lbs.)

MATERIALS	
All Housing Parts: Lens: All hardware: Electrical connector: Lamp socket: O-rings: Cable (Super-Vutron):	AISI type 304 stainless steel, electropolished Tempered borosilicate glass 18-8 Stainless steel 52G-012 Glass-reinforced epoxy 5kV pulse-rated ceramic Nitrile (Buna N), compound N674-70 CSPE jacket, EPDM insulation
ELECTRICAL	
Input voltage: Supply frequency: Cable size: Cable current rating: Cable voltage rating:	220 VAC (standard); 120VAC and 240VAC available 50 or 60Hz 16 AWG type SO, 3 conductor (standard) 12 amperes maximum 600 Volts maximum
LIGHTING/PHOTOMETRIC	
Lamp type: Time to full brightness: Operating Position: Correlated Color Temp.: Luminous Flux: Luminous Efficacy:	Tungsten-halogen, E39 base/T10 bulb <1 s after application of power Universal (any position) 3200K typical 50,000 lumens typical 25 lm/w
ENVIRONMENTAL	
Protection level: Depth rating:	IP68 30m (100 FSW)