

BIRNS QUANTUM

The new BIRNS Quantum LED floodlight delivers powerful illumination for demanding high ceiling applications inside containment. With a 21,383 lumen output of 5,000K white light, it provides safer, more comfortable and efficient working conditions. It has a low 210W power draw and a 109,000 hour lamp life — along with high optical efficiency of 102 lumens per Watt — delivering huge energy savings over metal halide and tungsten halogen lamp options.



High Performance . . . Under Pressure®

The extended-life BIRNS Quantum offers a wide range of input voltages, from 110 to 277VAC, in a robust all stainless steel exterior housing. This versatile system has a unique adjustable Universal mount for both ceiling and wall mount configurations, and integral bolt handles that make it easy to securely lock the fixture in place. Like all field-proven BIRNS nuclear lighting lines, the BIRNS Quantum is designed with safety and productivity in mind. All corners and edges are rounded for worker safety, and surfaces are smooth for easy cleaning and decontamination.

Applications

This powerful, energy-efficient floodlight is created for wide range illumination in reactor halls, fuel buildings, or anywhere an efficient, long-life floodlight is needed. It is UL-listed for damp locations and IP5X-rated.

Exclusive Features:

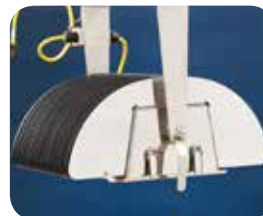
- Powerful wide area lighting >21,000 lumens
- 109,000 hour lamp life; low 210W power draw
- Near daylight 5,000K color temperature
- Wide range of input voltage (110-277 VAC)
- Extremely robust 430 stainless steel housing
- High radiation tolerance 2.5 x 10⁵ Gy (2.5 x 10⁷ R)
- Versatile installation options with Universal mount
- Containment-grade materials and construction



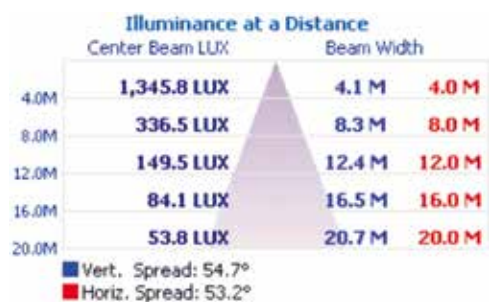
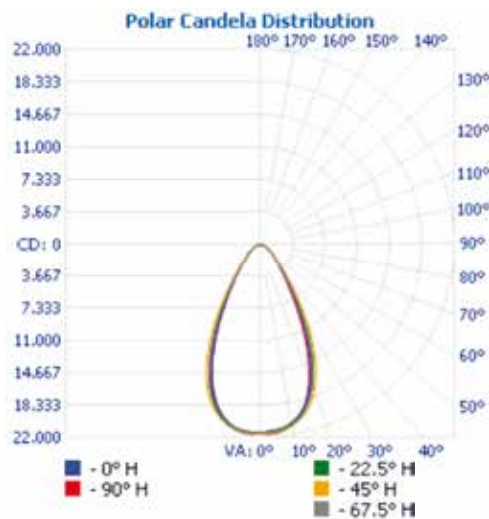
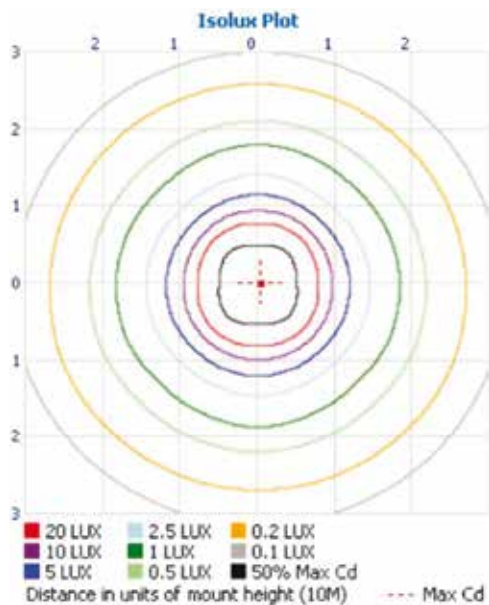
This powerful system emits 21,383 lumens, with an extended lamp life that can run 12 hours a day for 23 years before needing replacement. The BIRNS Quantum has an optical efficiency of ~83% with a near daylight color temperature for comfortable, productive working conditions.



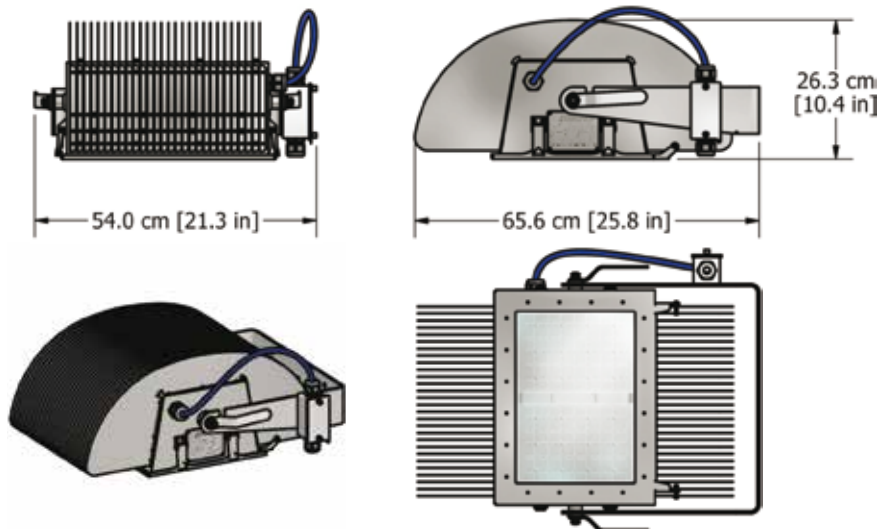
The fixture is engineered with a robust housing and features rounded edges, and all captivated parts for safety and efficiency of use. Its integral junction box is affixed to the yoke, for seamless electrical connecting.



The BIRNS Quantum has an exclusive Universal mount allows a range of installation options on ceilings and walls. Its unique design keeps the light secure even if bolts are loosened. Plus, integral bolt handles make it easy to lock the fixture in place.



Specifications



ELECTRICAL

Mains Input (VAC):	110-277
Frequency:	50 Hz or 60 Hz
Power:	210W
Power Factor:	.96

LIGHTING/PHOTOMETRIC

Lamp Type:	High-power LED
Luminous Flux:	21,383 lm
Correlated Color Temperature:	4872 K
CRI (Ra):	77
LED Lumen Maintenance (L70):	109,000 hours
Lumens per Watt (LPW):	101.8
Optical Efficiency (%):	83
Operating Position:	Universal
Fixture Type:	Flood

MATERIALS

Housing:	430 Stainless
Mounting Hardware:	300-series stainless steel
Cable:	CSPE Jacket SO cable
Gaskets:	Silicone rubber
Window:	Tempered glass
Window Frame:	300-series stainless steel
Fluid-tight Strain-relief Fittings:	Nylon

ENVIRONMENTAL & QUALIFICATIONS

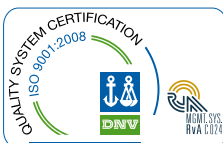
Protection Level:	IP5X
Radiation Tolerance:	2.5 x 10 ⁵ Gy (2.5 x 10 ⁷ R)
Operating Temperature:	55°C
Certifications:	UL 1598, UL 8750 (UL file E469037)

MOUNTING

Mount Style:	Universal wall/ceiling bracket
Optional Mounting:	Per Customer Specification
Weight:	34.6 kg (76.2 lbs)

ORDERING INFORMATION

Model Number:	4301
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BIRNS' Quality Management System is
ISO 9001:2008 Certified;
NRC 10CFR50, App. B Compliant

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