

TECHNICAL SPECIFICATIONS

BIRNS Sirius Model 4010

Materials : Sirius Luminaire

All Housing Parts:	Tempered cast aluminum, type 356-T6, hard black anodized per MIL-A-8625, Type III, Class 2; vacuum impregnated per MIL-STD-276; and painted with BIRNS Yellow (primer + 2 coats) enamel paint
Lens:	Tempered borosilicate glass
O-rings:	Buna-N, 70-durometer, black N674-70
Connector body:	Glass-reinforced epoxy (GRE) 52G-012
Connector pins:	Brass 360 per ASTM B16, gold-plated per MIL-G-45204

Materials : Power Cables

Connector locking sleeve:	Black Delrin (homopolymer of polyformaldehyde crystalline acetal resin)
Connector body:	Polychloroprene (neoprene), black, vulcanized to 70 durometer
Connector sockets:	Beryllium copper, gold-plated per MIL-G-45204
Cable:	14 AWG, 3-conductor fully annealed stranded bare copper per ASTM B-174. Available in these options: Super-Vutron: Chlorinated Polyethylene (CPE) jacket; Ethylene Propylene Diene Monomer (EPDM) insulation; yellow jacket Aquaprene: Polychloroprene jacket; Styrene rubber (STR) insulation; black jacket

Physical : Sirius Luminaire

Length:	360 mm (14 in)
Diameter (maximum):	334 mm (13 in)
Height with yoke:	430 mm (17 in)
Weight in air:	13.2 kg (29 lbs)

Electrical

Current:	8.3 amperes maximum draw (on 120 volts)
Input Voltage:	115 +/- 15 VAC or VDC ¹
Supply frequency:	60 or 50 Hz
Lamp Power:	1,000 watts
Housing Dielectricity:	500 volts
Cable size:	14 AWG
Cable current rating:	15 amperes maximum
Cable voltage rating:	600 volts maximum

¹Substantive input voltage variation will affect lamp performance characteristics, including light output, lamp life, consumed power, color temperature, etc. Generally, higher voltage use will increase light output, power, and color temperature and will lessen lamp life, and lower voltages will have converse effects. However, the relationships are linear only near the rated input voltage value.

Lighting/Photometric

Lamp type:	Tungsten-halogen PAR 64, prong base GX16D
Bulb Designation:	PAR-64, 203 mm (8.0 inch) nominal diameter
Max. Overall Length:	15.3 cm (6 in)
Filament type:	CC-6
Start time:	<1 second to 95% of peak output
Restart time:	<1 second to 95% of peak output on power re-application after interruption of any duration
Operating Position:	Universal (i.e. any position)
Dimming range:	0 to 100%
Rated Average ² Lifetime:	See Table A, Table of Available Lamps

Environmental

Protection level:	IP68
Depth rating:	150 M (500 FSW)

²The time after which 50% of test lamps were no longer operating.

Table A — Table of Available Lamps

Lamp	V ³	W ⁴	Color ⁵	Desc.	Beam ⁶	CBCP ⁷	Light Output ⁸	Rated Life ⁹
32D-005	120	1000	3,200	Narrow	8 x 20	135,000	16,000	4,000
32D-006	120	1000	3,200	Medium	10 x 30	82,000	16,000	4,000
32D-007	120	1000	3,200	Wide	20 x 60	23,000	16,000	4,000

³This is the nominal input voltage of the lamp, expressed in volts (RMS).

⁴This is the nominal power consumption rating of the lamp, expressed in watts.

⁵This is the "Correlated Color Temperature", expressed in degrees Kelvin (K).

⁶This is the Beam Angle, expressed in degrees and measured to 50% of maximum candlepower, in accordance with ANSI C78.389, "Method for the Classification of the Beam Patterns of Reflector Lamps". For beam angles less than 13°, beam angles are rounded to the nearest whole number. For beam angles 13° and greater, beam angles are rounded to the nearest 5°. For example, a lamp with a nominal beam angle of 13° is classified at 15°.

⁷This is the Center Beam Candle Power, expressed in Candela units.

⁸This is the total light output of the lamp, expressed in lumens. Although there are conflicting light output claims by different lamp manufacturers (General Electric, for example, claims 19,400 lumens), BIRNS has had samples tested by an independent test laboratory, and has determined that these lamps consistently produce 16,000 lumens.

⁹These ratings, expressed in hours, are determined by the lamp manufacturer based on laboratory tests under controlled conditions. Your own field results may vary.