

TECHNICAL SPECIFICATIONS

BIRNS MiteyLight Model 5742

Materials

All Housing Parts:	Aluminum type 6061-T6, hard black anodized per MIL-A-8625, Type III, Class 2
Lens:	Fused silica
Connector:	Glass-reinforced epoxy (GRE)
Connector pins:	Tellurium copper, gold-plated per MIL-G-45204
O-rings:	Nitrile (Buna N), compound N674-70
Cable:	Neoprene (Polychloroprene) jacket; Styrene Rubber (STR) insulation (other cable types available)

Physical

Length, overall:	132 mm (5.2 inches)
Diameter of body:	32 mm (1.25 inches)
Weight in air:	160 gm (.35 pounds)
Weight in water:	75 gm (.17 pounds)

Electrical¹

Input voltage:	120 or 240 VAC or VDC
Wattage:	100, 150 or 250 watts
Supply frequency:	50 or 60 Hz
Cable size:	16 AWG type SO, 3 conductor (standard)
Cable current rating:	12 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:	Incandescent Tungsten-halogen
Time to full brightness:	<1 second after application of power
Operating Position:	Universal (any position)
Rated Average Lifetime:	3,000 hours ²
Correlated Color Temp.:	3000 K typical
Dimming range:	0-100%
Beam angle ³ :	120° overall (60° from centerline)

Environmental

Protection level:	IP68
Depth rating:	300 M (1,000 FSW) plus 50% safety margin

²These ratings are determined by the lamp manufacturer based on laboratory tests under controlled conditions. Your own field results may vary.

³Measured to 50% of peak intensity.