



5651 BIRNS XT120™

PHYSICAL-

Length:	13.5 cm (5.3 in.)
Width:	11.7 cm (4.6 in.) with yoke 7.6 cm (3.0 in.) without yoke
Height:	11.4 cm (4.5 in.) with yoke 7.6 cm (3.0 in.) without yoke
Weight in Air:	0.5 kg (1.1 lbs.) with yoke 0.45 kg (1.0 lbs.) without yoke
Weight in Water:	0.14 kg (5 oz) with yoke 0.11 kg (4 oz) without yoke

LIGHTING/PHOTOMETRIC -

Lamp Type:	Incandescent Tungsten-Halogen
Time To Full Brightness:	<1 second after application of power
Operating Position:	Universal (i.e. any position)
Rated Average Lifetime:	2,000 hours (250w lamp)
Dimming Range:	0-100%
Light Output:	5,000 initial lumens (250w lamp)
Correlated Color Temp.:	3000K, depending on installed lamp
Beam Angle (to 50% output):	52° (clear lens) or 74° (frosted lens)

ENVIRONMENTAL -

Protection Level:	IP 68
Depth Rating:	thin lens: 1800 M (5,900 FSW) + 100% safety margin thick lens: 3400 M (11,200 FSW) + 100% safety margin
Expected Radiation Tolerance:	10 ⁵ Gy (10 ⁷ R)



ELECTRICAL -

Input Voltage:	110 ±10 or 220 ±20 VAC/VDC, depending on installed lamp
Supply Frequency:	60 or 50 Hz
Cable Size:	16 AWG type SO, 3 conductor (standard)
Cable Current Rating:	12 amperes maximum
Cable Voltage Rating:	600 volts maximum
Nominal Lamp Wattage:	250 Watts (default); 100 and 150 Watts (available)

MATERIALS -

All Housing Parts:	6061 Aluminum, hard black anodized
Yoke Frame And Base:	Stainless steel type 304, electropolished
All Hardware:	Stainless steel type 18-8
Lens:	Tempered borosilicate glass
Seals:	BUNA N (standard), other materials available
Connector:	Glass-reinforced epoxy (GRE)
Connector Pins:	Brass 360 per ASTM B16, gold-plated per MIL-G-45204