



## Submarine Manufacturing & Products Limited

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Blackpool Road, Newton, Preston, Lancashire, United Kingdom PR4 3RE

### PRODUCT DATASHEET

#### BIRNS Aquila



#### THIS PRODUCT HAS THE FOLLOWING OPTIONS:

No product options are available.

#### OVERVIEW

The BIRNS Aquila, BIRNS Model 5748, is the industry's most advanced, compact underwater low voltage multi-use light. It's packed with innovative features like a low profile ~60mm housing, four conduit channels that enhance water flow across the lens and specially engineered cooling fins to help sink heat into the water.



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### DESCRIPTION

The BIRNS Aquila, BIRNS Model 5748, is the industry's most advanced, compact underwater low voltage multi-use light. It's packed with innovative features like a low profile 60mm housing, four conduit channels that enhance water flow across the lens and specially engineered cooling fins to help sink heat into the water. It has a non-browning crystal lens, immediate tool-free relamping, a 60° beam, wire-free construction, and powerful, depth-piercing 895 lumen, 3000K white light.

### FEATURES

The low-voltage BIRNS Aquila is powerfully versatile, and may be used by divers, on cameras, and ROVs. It is available with choice of 25 to 360-watt lamp and is an excellent light for color or black and white filming and video, and for general-purpose underwater illumination. This powerfully versatile system is ideal for video cameras and manipulator arms.

### SPECIFICATION

#### PHYSICAL

**Length** - 97 mm (3.8 in.)  
**Diameter** - 60 mm (2.38 in.)  
**Weight in Air** - 209 g (7.4 oz.)  
**Weight in water** - 64 g (2.3 oz.)

#### LIGHTING AND PHOTOMETRIC

**Lamp Type** - MR-16 Tungsten-Halogen, 2-pin/GX5.3 base  
**Time To Full Brightness** - <1 second after application of power  
**Operating Position** - Universal (i.e. any position)  
**Dimming Range** - 0-100%  
**Correlated Color Temp** - 2950K to 3400K (per installed lamp)

#### ENVIRONMENTAL



**Protection Level** - IP 68  
**Depth Rating** - 200 M (660 FSW)  
**Expected Radiation Tolerance** - 106 Gy (108 R)

#### ELECTRICAL

**Input Voltage** - 12 or 24 VAC/VDC (standard), depending on installed lamp  
**Supply Frequency** - 60 Hz standard; 50 Hz available  
**Cable Size** - 16 AWG type SO, 2 conductor (standard)



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**Cable Current Rating** - 12 amperes maximum

**Cable Voltage Rating** - 600 volts maximum

### MATERIALS

**All Housing Parts** - 6061 Aluminum, hard black anodized

**Lens** - Non-browning fused silica or quartz

**Seals** - Silicone 70 (S1224-70) standard; other materials available

**Connector** - Glass-reinforced epoxy (GRE)

**Connector Pins** - Brass 360 per ASTM B16, gold-plated per MIL-G-45204

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### ORDER THIS PRODUCT

To order this product or to request a price contact our UK sales team on

**+44 (0)1772 687775**

Alternatively you can place a quote request through our website

<http://www.smp-ltd.co.uk/> or send an email to [sales@smp-ltd.co.uk](mailto:sales@smp-ltd.co.uk)