



### System application

To provide decorative illumination of architectural features.

### Key features of the system

- 1700 Lumens per metre for decorative highlighting

### Description

20mm diameter cold cathode lamps with magnetic control gear placed remotely from the lamp. For use where the construction detail does not allow sufficient space for lamp and control gear to be situated adjacently, or where the on-going maintenance is a consideration. The light output of 1700 lumens per metre is an ideal balance of lux level and energy consumption, where the designer requires a lighting solution for highlighting architectural features. The control gear may be placed up to 60 metres from the lamp. For extreme climatic conditions, the lamp connections can be weather sealed and the control gear placed within the building.

### Project partners

*Project:*

Obel Tower, Belfast, UK.

*Architect:*

Broadway Maylan

*Consulting Engineers:*

Delap and Waller

*Electrical Contractor:*

Blackbourne Electrical



1. Cold cathode lamps have been hot formed to follow the curved exterior contour of the building.
2. Owing to the exposed location of the building, the lamp connections have been weather sealed to prevent corrosion.
3. The control gear is installed up to 15 metres from the lamps, allowing the lighting to be installed in a slim cavity.



**Technical Drawings**

**Lamps**

Diameter: 20mm  
 Colour: see colour chart  
 Life: 50,000+ hrs  
 Lumens/m: 1700  
 Watts/m: 35  
 Efficacy: 48 lumens per watt  
 Max length: 2000mm  
 Electrode: Butt sealed, turn back  
 Process: Oven pumped, radio frequency induction

Operating Temperature (ambient): -20°C to +80°C  
 Rating: IP65  
 Dimming control: Phase

**Control Gear – Magnetic**

Output voltage: 990V  
 Output current: 100mA  
 Dimensions: L267 x W77 x H77mm  
 Weight: 5.3kgs  
 Location: Remote from lamp, up to 60 metres  
 Operating Temperature (ambient): -20°C to +50°C  
 Rating: IP44

Magnetic control gear by construction have a low power factor of > 0.55. Where no dimming is required, these units can be fitted with capacitors for power factor correction, increasing the power factor to > 0.95





#### Specification statement

<b>AML Remote 1700</b>	Cold Cathode Lighting system to provide a continuous, seamless line of illumination.
<b>Lamps</b>	Long life 50,000 hour, tri-phosphor oven processed, 20mm diameter, to provide 1700 lumens per linear metre. Lamp ends are to be butt sealed with fusion-formed, turn-back electrodes.
<b>Lamp colour</b>	Code to be AML – (see colour selector)
<b>Lamp holders</b>	To be high density polycarbonate with high UV and heat distortion resistance.
<b>Control gear</b>	High power magnetic. Conforming to all relevant EN Standards and Directives.
<b>Control</b>	<ul style="list-style-type: none"> <li>– Mains</li> <li>– High power factor</li> </ul>
<b>Shop drawings</b>	Should be issued in CAD format with all dimensions confirmed with on-site measurements, to be provided by the contractor at the time of order.
<b>Manufacturer</b>	<p>AM Light            28A Greenville Street            Belfast BT5 5AG            United Kingdom  <a href="http://www.am-light.com">www.am-light.com</a></p>