Fiber optic lighting system

Create a dramatic atmosphere with ease of installation

SCHOTT

glass made of ideas
The aim of the Schott Lighting System is to enable quick and easy specification of fiber optic lighting systems. Where it stands out from other fiber optic systems is that the specification is based solely upon the light output levels desired for any specific installation. This means you do not require previous knowledge or experience of fiber optic lighting.

The system consists of three parts:

• a light source
• the harness
• and the end fittings

The advantages of fiber optic lighting

• Design flexibility
• Latest technology adds value to any installation
• Low maintenance - just one lamp for up to 20 light fittings
• Virtually no heat at the point of light output - requires no expensive fire precautions for end fittings
• Electrically safe - the fiber cable only transmits light not current - it can be safely installed in adverse conditions or potentially hazardous areas

The system components

- A 150W SpectraStar light source
- Up to a 20 tail SpectraFlex harness

Create a dramatic atmosphere with ease of installation

The Schott Fiber Optic Lighting System can produce feature lighting effects almost anywhere - whether retail, commercial or domestic, for example:

• Cafes and restaurants
• Hotels
• Shops
• Bars and night clubs
• Reception areas
• Bathrooms
• Food preparation/storage

Easy to specify.
Easy to install - wiring to one light source supplies up to 20 points of light.
Easy to cost and order.
Schott guaranteed performance - peace of mind for specifiers.

Areas of application
Technical Specification

**Light source**
- Lamp wattage: W 150
- Colour temperature: K 4200
- Lamp life: h 6000
- Working voltage: V 230
- Thermal cut-out: manual reset
- Cooling: fan forced ventilation
- Ambient temperature: °C -15 . . . +40
- Dimensions, dxh: mm 279 x 121
- Weight: kg 5.4
- IP rating: 20

**Fiber optic harness**
- Number of tails: up to 20 (max 4 different lengths)
- Tail length: 2 - 5 meters in 0.5m steps
- Construction: high quality glass fiber with HFFR (halogen-free flame retardant) sheath

**End fittings**
- Bezel colour: white
- Bezel diameter: mm 60
- Drilling diameter: mm 45
- Surface thickness: mm 3 to 20

**Photometric System Data**

<table>
<thead>
<tr>
<th>Angle of Beam</th>
<th>ø535</th>
<th>ø730</th>
<th>ø930</th>
<th>ø1070</th>
<th>ø1460</th>
<th>ø1860</th>
</tr>
</thead>
<tbody>
<tr>
<td>30°</td>
<td>500</td>
<td>750</td>
<td>1000</td>
<td>125</td>
<td>185</td>
<td>250</td>
</tr>
<tr>
<td>40°</td>
<td></td>
<td></td>
<td></td>
<td>55</td>
<td>80</td>
<td>110</td>
</tr>
<tr>
<td>50°</td>
<td></td>
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<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SCHOTT SYSTEM TYPE</th>
<th>500</th>
<th>750</th>
<th>1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed End Fittings</td>
<td>20</td>
<td>30</td>
<td>50</td>
</tr>
<tr>
<td>Adjustable - Fully Orientated Focus Positions</td>
<td>10</td>
<td>30</td>
<td>60</td>
</tr>
<tr>
<td>Fully Contracted</td>
<td>20</td>
<td>16</td>
<td>12</td>
</tr>
</tbody>
</table>

**Operating Temperature**
- 30° . . . 80°

**System Type**
- Lengths available: 2 - 5 meters
- (0.5m increments, 4 lengths maximum)

**Plus**
A choice of three end fittings

How to order - see back page
1. Determine the required light output per fitting.
2. Using the Photometric Data Table, select the nearest light output available. This will determine the system type you require eg: 500, 750, 1000.
3. Decide on the number of light points required. The Harness Specification Table indicates the maximum and minimum number of fittings per system type.
4. Select a suitable location for the light source - must be accessible for maintenance. (See installation guide for further information).
5. Measure the distance from the light source to the end fittings, this will determine the length of the tail in the system. Please note: Minimum length is 2 meters and maximum is 5 meters. If different lengths are required within one system a maximum of 4 lengths in 0.5 meter steps is available (eg: 2.0m, 2.5m, 3.0m, 3.5m etc).
6. Complete the supplied order form and calculate the system price.
7. Place your order with your local Schott distributor.

Should you require further information or assistance in specifying your system please contact your local Schott distributor.

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Detailed variations in system performance are:
Mean variation harness to harness = +/-20%. Tail to tail within one harness = +/-30%. Light source to light source = +/-10%. Tail length effects = -0%/m. Tail count effects = +/-8%.