**SCHOTT® HelioJet Spectrum**

Ultimate color fidelity through permanent sensor control

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**The Challenge: Constant light performance**

By physical principal LEDs change color and light intensity over time. **Disadvantages of conventional LED systems:**

- No homogeneous light pattern
- Change of light output over time
- Mismatching colors due to exposed temperature and aging pattern
- High maintenance efforts due to the huge color differences

**The Solution: Active LED management**

**HelioJet® technology** permanently monitors and controls each LED and thus enables:

- Homogeneous light distribution
- Stability of light intensity
- Stability of light color
- Maintenance friendly
- Ecologically friendly

**Aircraft Cabin Illumination**

- Functional light (white)
- Ambient light scenarios (colored)

**Lifelong homogenous light**

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**Full integrated LED control**

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### Product Characteristics

- HelioJet SpectrumCC eliminates color shifts over the entire lifetime
- Low maintenance. Meantime between failure (MTBF) $t > 100,000$ OH
- Designed for line- and retrofit. Modular production concept provides high compatibility with different aircraft and operating systems.

<table>
<thead>
<tr>
<th>Type</th>
<th>Dimension</th>
<th># of PSU</th>
<th># of Segments</th>
<th>Weight</th>
<th>Max. Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>12“-18”</td>
<td>1</td>
<td>1</td>
<td>410 g (18&quot;)</td>
<td>15 W</td>
</tr>
<tr>
<td>II</td>
<td>22“-36,5”</td>
<td>1</td>
<td>2</td>
<td>670 g (36,5&quot;)</td>
<td>29 W</td>
</tr>
<tr>
<td>III</td>
<td>37“-46,5”</td>
<td>1</td>
<td>3</td>
<td>800 g (46,5&quot;)</td>
<td>35 W</td>
</tr>
<tr>
<td>IV</td>
<td>47“-54”</td>
<td>2</td>
<td>3</td>
<td>1000 g (54&quot;)</td>
<td>43 W</td>
</tr>
<tr>
<td>V</td>
<td>55“-72”</td>
<td>2</td>
<td>4</td>
<td>1350 g (72&quot;)</td>
<td>57 W</td>
</tr>
</tbody>
</table>

### Technical Data

**Dimensions**
Lamp module: 31 mm (H) x 27 mm (W) x 928 mm (L), length customizable
Power supply: 25 mm (H) x 29,5 mm (W) x 165 mm (L), can be separated

**Color rendering index (CRI)**
$> 85 \text{ (@CCT 3300 K ... 8000 K)}$

**Light stability**
Color shift $\leq 3$ SDCM
Brightness shift $< 1\%$
over specified temperature range and lifetime

**Light intensity**
$1\text{m distance} > 300 \text{ lx, non regulated @ 4000K}$

**Beam angle**
$60^\circ$

**Light control**

<table>
<thead>
<tr>
<th>Discrete Signal</th>
<th>Discrete RS 485 Switch Module</th>
<th>RS 485</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td>✔</td>
<td>✔ 2)</td>
</tr>
</tbody>
</table>

1) with power supply
2) Airbus and Boeing 777 only