1100 Series FX-1160
High Output, Short Arc Xenon Flashlamp with Internal Reflector

Description

The FX-1160 Reflector Lamp has greater than 40% more usable light intensity than our standard FX-1150 and is completely interchangeable. Excelitas customers have the option of either taking advantage of the greatly increased light output or they can operate the FX-1160 at a reduced input energy. Lower energy operation equates to increased lamp life and stability.

The hemispherical reflector internal to the FX-1160 should not be confused with competitive types employing paraboloids or ellipsoids in which all of the forward direct light is nonrecoverable and becomes a serious source of optical scattering. Excelitas’ FX-1160 has an electrode orientation which does not block the forward light emission and therefore does not cause a “black hole” in the output beam profile.

Features

- Greater than 40% more usable light intensity than FX-1150
- Ideal for use with Optical Lenses and Fiber Bundles
- Low optical “noise”
- Continuous spectrum UV-VIS-IR
- Long life
- Low heat radiation
- Microsecond flash duration
- High efficiency output in the blue
- Interchangeable with FX-1150
FX-1160, High Output Short Arc Xenon Flashlamp with Internal Reflector

<table>
<thead>
<tr>
<th>Type</th>
<th>Arc Length (mm)</th>
<th>Spectral Distribution (nm)</th>
<th>Window Material</th>
<th>Energy per Flash (joules)</th>
<th>Average Power (watts)</th>
<th>Voltage (Vdc)</th>
<th>Flash Rate (Hz)</th>
<th>Life (flashes)</th>
<th>Typical Output Stability (%)</th>
<th>Spatial Lite-Pac</th>
<th>Movement Type</th>
<th>Life-Pac Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>FX-1160</td>
<td>1.5</td>
<td>225 - 1100+</td>
<td>Borosilicate</td>
<td>0.5</td>
<td>20</td>
<td>350 - 1000</td>
<td>300</td>
<td>+/- 1% CV</td>
<td>&gt;1 X 10^9 variation</td>
<td>&lt;0.1 mm</td>
<td>FYD 1150</td>
<td></td>
</tr>
<tr>
<td>FX-1161</td>
<td>1.5</td>
<td>190 - 1100+</td>
<td>UV</td>
<td>MAX</td>
<td>MAX</td>
<td>MAX</td>
<td>MAX</td>
<td>&gt;1 X 10^9 variation</td>
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<td>FYD 1150</td>
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<td></td>
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<tr>
<td>FX-1162</td>
<td>120 - 1100+</td>
<td></td>
<td>VUV</td>
<td>0.5</td>
<td>20</td>
<td>350 - 1000</td>
<td>300</td>
<td>+/- 1% CV</td>
<td>&gt;1 X 10^9 variation</td>
<td>&lt;0.1 mm</td>
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<td></td>
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<tr>
<td>FX-1163</td>
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<td>Borosilicate</td>
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<td>20</td>
<td>350 - 1000</td>
<td>300</td>
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<tr>
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<td>UV</td>
<td>MAX</td>
<td>MAX</td>
<td>MAX</td>
<td>MAX</td>
<td>&gt;1 X 10^9 variation</td>
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<tr>
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<td>0.5</td>
<td>20</td>
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<td></td>
</tr>
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</table>

Optical Profile of FX-1160

Output Beam Profile

Spectral Data

Life vs. Input Energy

Outline Dimensions

For more information email us at generalinquiries@excelitas.com or visit our web site at www.excelitas.com

Note: All specifications subject to change without notice.