Spatially Randomized Lightlines

A patented exclusive, these 24" and 40" lightlines are ideal for web and line scanning applications requiring exceptional uniformity

Product and Performance Characteristics

- Manufactured using a patented process called spatial randomization, the process allows light from each input to be distributed over the entire length of the line so that if a light source fails while using multiple inputs, intensity is evenly reduced over the length of the line, rather than losing all light in a section of the line.
- Calibrated to ±15 gray scale levels at a mean of 200 with a gamma setting of 1.0 to deliver optimum uniformity (See reference section for more information on uniformity of fiber optic products).
- Assembly method accurately positions the fiber line within the body on all three planes, to a tolerance of ± .004"(0.1)†, assuring the fiber axis will be parallel with the mounting surface of the body.
- 24" (610) lightline accepts our dichroic filters and diffusers, to use color filters on the 40" (1016) line part number A08931, color filter adapter, is required.
- Rugged aluminum body with a black anodized finish, stainless steel tubing protects the fiber bundle.
- Cylindrical lenses are available and are designed to collect light exiting the lightline to increase intensity up to a factor of 10.
- Custom lengths, bundle exits, and line widths can be designed for your unique requirements.

Lightlines and Lenses

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Line Dimension Length x Width</th>
<th>Input Active Fiber Diameter</th>
<th>Gray Scale Uniformity^</th>
<th>Bundle Length</th>
<th>Part No. for Lens</th>
<th>Cylindrical</th>
<th>Apertured</th>
</tr>
</thead>
<tbody>
<tr>
<td>A08940</td>
<td>40&quot;x.015&quot; (1016x.38)</td>
<td>.62&quot; (16)*</td>
<td>± 15</td>
<td>30&quot; (762)</td>
<td>* A08860</td>
<td>Custom</td>
<td></td>
</tr>
<tr>
<td>A08964</td>
<td>24&quot;x.022&quot; (610x.56)</td>
<td>.57&quot; (14)</td>
<td>± 15</td>
<td>40&quot; (1016)</td>
<td>* A08864</td>
<td>Custom</td>
<td></td>
</tr>
</tbody>
</table>

* Made-to-order products
Spatially Randomized Lightline A08940, 40” (1016)

Spatially Randomized Lightline A08964, 24” (610)

Example of Line Scan Results

Dimensions in ( ) are in mm

**Warning**: This product is manufactured with glass fiber. Not for use in cable/hose carrier. Call SCHOTT to discuss moving cable/hose carrier applications.