Universal Ringlights
For 33 to 81 mm Objective Diameters

SCHOTT ringlights emit intense, uniform, and shadow-free illumination for Machine Vision and Microscopy applications.

Standard Features

- Fits microscope and camera objectives from 33 to 81 mm depending on the model number. See chart below to select ringlight part number based on objective diameters.
- 33" (838) bundle length on all models.
- The ringlight body is made of rugged, black anodized aluminum and the fiber bundle is protected with flexible PVC covered metal tubing except the ESD (Electro Static Discharge) models.
- ESD ringlights are made conductive by replacing the black anodized finish with a conductive finish and the PVC metal tubing with stainless steel tubing. Each ringlight is checked for conductivity from inner body to light source adapter.
- Unique clamping/mounting system for precise positioning. Most ringlights fit directly onto the microscope and camera objective without adapters. See Support Apparatus for Ringlights section of the product catalog for details.
- Input fits all ColdVision light sources. Ringlights can be used with other manufacturer’s continuous light sources. Adapters may be required.
- Use ringlights with our Dichroic color filters, diffusers, polarizer/analyzers, and reflector rings for alternative lighting effects.
- Vertical exit bundle option increases work space and prevents the bundle from interfering with surrounding objects.
- Modified standard and custom ringlights are also available for your unique requirements.
- Manufactured in the USA.

<table>
<thead>
<tr>
<th>Universal Ringlights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td>A08600</td>
</tr>
<tr>
<td>A08603</td>
</tr>
<tr>
<td>A08604</td>
</tr>
<tr>
<td>A08620</td>
</tr>
<tr>
<td>A22000</td>
</tr>
</tbody>
</table>

Universal Ringlight, A08600

ESD Universal Ringlight, A22000

Vertical Exit Universal Ringlight, A08620

4.01.01 REV F
Universal Ringlights

Dimensions in ( ) are in mm

Ringlight Input: Black Anodized Aluminum or Conductive Finish
Bundle Sheathing: PVC Covered Metal Tubing or Stainless Steel
Working Distance: 1.5" to 6" (38 to 152)

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

See Support Apparatus Section of the Product Catalog for more details on Ringlight Clamps
Midi and Mini Ringlights

For 19 to 53 mm Objective Diameters

SCHOTT ringlights emit intense, uniform, and shadow-free illumination for Machine Vision and Microscopy applications.

Midi Features
- Fit microscope and camera objectives from 38 to 53 mm.
- Working distance is 1.25" to 3.5" (32 to 89)*.

Mini Features
- Fit microscope and camera objectives from 19 to 32.5 mm.
- Working distance is .5" to 4" (13 to 102).
- ESD (Electro Static Discharge) ringlights are available. They are made conductive by replacing the black anodized finish with a conductive finish and the PVC metal tubing is replaced with stainless steel tubing. Each ring light is checked for conductivity from inner body to light source adapter.

Midi & Mini Ringlight Features
- Thumbscrew mounting system for precise positioning. Ringlights fit directly on most microscope and camera objectives without adapters. For instances when adapters are necessary, see the Ringlight Accessories section of the catalog. To replace lost thumbscrews, use SCHOTT part number A29501.
- Vertical exit bundle option increases work space and prevents the bundle from interfering with surrounding objects.
- Use ringlights with our Dichroic color filters, diffusers, polarizer/analyzers and reflector rings for alternative lighting effects.
- Input fits all ColdVision light sources.
- The ringlight body is made of rugged, black anodized aluminum. The fiber bundle is protected with flexible PVC covered metal tubing on all ringlights except the ESD models, which have an irridited finish. Also, on the ESD ringlight the PVC metal tubing is replaced with stainless steel tubing.
- Modified standard and custom ringlights are also available for your unique requirements.

### Midi Ringlights

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Standard Exit</th>
<th>Vertical Exit</th>
<th>ESD</th>
<th>Working Distance</th>
<th>Polarizer/Analyzer</th>
</tr>
</thead>
<tbody>
<tr>
<td>A08630</td>
<td>X</td>
<td></td>
<td></td>
<td>1.25&quot; - 3.5&quot;</td>
<td>A08632</td>
</tr>
<tr>
<td>A08635</td>
<td>X</td>
<td></td>
<td></td>
<td>1.25&quot; - 3.5&quot;</td>
<td>A08632</td>
</tr>
<tr>
<td>A22030</td>
<td>X</td>
<td></td>
<td></td>
<td>1.25&quot; - 3.5&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>A22035</td>
<td>X X</td>
<td></td>
<td></td>
<td>1.25&quot; - 3.5&quot;</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Mini Ringlights

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Standard Exit</th>
<th>Vertical Exit</th>
<th>ESD</th>
<th>Working Distance</th>
<th>Polarizer/Analyzer</th>
</tr>
</thead>
<tbody>
<tr>
<td>A08650</td>
<td>X</td>
<td></td>
<td></td>
<td>.5&quot; - 1.5&quot;</td>
<td>A08652</td>
</tr>
<tr>
<td>A08660</td>
<td>X</td>
<td></td>
<td></td>
<td>1.5&quot; - 4&quot;</td>
<td>A08652</td>
</tr>
<tr>
<td>A08670</td>
<td>X</td>
<td></td>
<td></td>
<td>1.5&quot; - 4&quot;</td>
<td>A08652</td>
</tr>
</tbody>
</table>

^ 29% more fiber than A08650 ringlight

*Dimensions in ( ) are in mm

Manufactured in the USA.

ColdVision Series

04.02.01 REV F
Midi and Mini Ringlights

Dimensions in () are in mm

Ringlight Input: Black Anodized Aluminum or Conductive Finish
Bundle Sheathing: PVC Covered Metal Tubing or Stainless Steel

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

A08650 - A08660 - 19 / 32.5 mm Ringlights

A08670 - 19 / 32.5 mm Ringlight with Vertical Exit

A08630 & A22030 - 38 / 53 mm Ringlights

A08635 & A22035 - 38 / 53 mm Ringlights with Vertical Exit

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66 mm Ringlights

For intense, uniform, and shadow-free illumination.

**Standard Features**

- Ringlights fit 66 mm microscope and camera objectives. Also shown on this sheet is a tapered inner-body ringlight for the Nikon SMZ 645/600 microscope. See model number A22040^.
- Working distance is 1.5" to 6" (38 to 152).
- 33" (838) bundle length on all models.
- The ringlight body is made of rugged, black anodized aluminum and the fiber bundle is protected with flexible PVC covered metal tubing except the ESD (Electro Static Discharge) models.
- ESD ringlights are made conductive by replacing the black anodized finish with a conductive finish and the PVC metal tubing with stainless steel tubing. Each ringlight is checked for conductivity from inner body to light source adapter.
- Thumbscrew clamping/mounting system for precise positioning (except for model number A22040). Ringlights fit directly onto most microscope and camera objectives without adapters.
- Clamp rings for the Universal ringlights also fit the 66 mm ringlights for use with a different diameter objective microscope or with the Ringlight Holder. (See the Support Apparatus for Ringlights section of the catalog for more information.)
- Input fits all ColdVision light sources. Ringlights can be used with other manufacturer’s continuous light sources. Adapters may be required.
- Use ringlights with our Dichroic color filters, diffusers, polarizer/analyzers and reflector rings for alternative lighting effects.
- Modified standard and custom ringlights are also available for all your unique requirements.
- Manufactured in the USA.

### 66 mm Ringlights

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Standard Exit</th>
<th>Vertical Exit</th>
<th>ESD Objective Diameter</th>
<th>Mounting System</th>
<th>Polarizer/ Analyzer</th>
</tr>
</thead>
<tbody>
<tr>
<td>A08625</td>
<td>X</td>
<td></td>
<td>66 mm</td>
<td>Thumbscrew</td>
<td>A08615^</td>
</tr>
<tr>
<td>A08680</td>
<td></td>
<td>X</td>
<td>66 mm</td>
<td>Thumbscrew</td>
<td>A08615^</td>
</tr>
<tr>
<td>A22025</td>
<td></td>
<td></td>
<td>66 mm</td>
<td>Thumbscrew</td>
<td>N/A</td>
</tr>
<tr>
<td>A22040^</td>
<td></td>
<td></td>
<td>SMZ 645/660</td>
<td>Retaining Ring</td>
<td>A22042</td>
</tr>
</tbody>
</table>

^ If using the A08626 adapter, use A08627 polarizer/analyzer

^ The A22040 ringlight has a tapered ring diameter to use with the SMZ 645/660 microscope. A retaining ring is used for mounting instead of a thumbscrew.
66 mm Ringlights

Dimensions in ( ) are in mm

Ringlight Input: Black Anodized Aluminum or Conductive Finish
Bundle Sheathing: PVC Covered Metal Tubing or Stainless Steel
Working Distance: 1.5" to 6" (38 to 152)

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

Designed to fit Nikon SMZ and Leica S4E and S6E microscopes.

**Standard Features**
- Working distance is 1.5" to 6" (38 to 152).
- 33" (838) bundle length on all models.
- The ringlight body is made of rugged, black anodized aluminum and the fiber bundle is protected with flexible PVC covered metal tubing except the ESD (Electro Static Discharge) models.
- ESD ringlights are made conductive by replacing the black anodized finish with a conductive finish and the PVC metal tubing with stainless steel tubing. Each ringlight is checked for conductivity from inner body to light source adapter.
- Vertical exit bundle increases work space and prevents the bundle from interfering with surrounding objects.
- Retaining ring mounting for the A22040 ringlight offers secure positioning.
- Thumbscrew clamping/mounting system for precise positioning on the A22050 & A22060 models. Ringlights fit directly onto microscope and camera objectives without adapters.
- A22050 and A22060 ringlights will fit on all auxiliary lenses for the S4E and S6E microscopes.
- Input fits all ColdVision light sources. Ringlights can be used with other manufacturer’s light sources. Adapters may be required.
- Use ringlights with our Dichroic color filters, diffusers, polarizer/analyzers, and reflector rings for alternative lighting effects.
- Modified standard and custom ringlights are also available for all your unique requirements.
- Manufactured in the USA.

### 58 mm Ringlights

<table>
<thead>
<tr>
<th>Part No.</th>
<th>ESD</th>
<th>Objective Diameter</th>
<th>Mounting System</th>
<th>Polarizer/Analyzer</th>
</tr>
</thead>
<tbody>
<tr>
<td>A22040</td>
<td>Nikon SMZ 645/660</td>
<td>Retaining Ring</td>
<td>A22042</td>
<td></td>
</tr>
<tr>
<td>A22050</td>
<td>Leica S4E/S6E</td>
<td>Thumbscrew</td>
<td>A22052</td>
<td></td>
</tr>
<tr>
<td>A22060</td>
<td>X</td>
<td>Leica S4E/S6E</td>
<td>Thumbscrew</td>
<td>A22052</td>
</tr>
</tbody>
</table>
58 mm Ringlights
Dimensions in ( ) are in mm

**Ringlight Input:** Black Anodized Aluminum or Conductive Finish
**Bundle Sheathing:** PVC Covered Metal Tubing or Stainless Steel
**Working Distance:** 1.5” to 6” (38 to 152)

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

SCHOTT ringlights emit intense, uniform, and shadow-free illumination for Machine Vision and Microscopy applications.

4” Ringlight, Part Number A08700
- Fiber ring diameter is 4.5” (114*).
- Working distance ranges from 2” to 8” (51 to 203).
- Light exits at 40 degree angle for specular-free illumination.
- Randomized fiber bundle maximizes uniformity.
- The ringlight body is made of rugged, black anodized aluminum and the fiber bundle is protected with flexible PVC covered metal tubing.
- Adapter part number A08702 is available for direct camera and/or lens mounting. Clamp, part number, A08525, can also be used for mounting. See Support Apparatus section of the product catalog for details.
- Use ringlights with our Dichroic color filters, diffusers and polarizers for alternative lighting effects (customer supplies analyzer).
- Input fits all ColdVision light sources.

The ringlights can be used with other manufacturer’s continuous light sources. Adapters may be required.

8” Ringlight, Part Numbers A08710, A08715
- Low Profile ringlights for working distances from 2.5” to over 4.5 (64 to 114)
- #1/4-20 mounting threads in the coupler (front and top).
- The ringlight body is made of rugged, black anodized aluminum and the fiber bundle is protected with stainless steel tubing.
- Use ringlights with our Dichroic color filters, diffusers, and polarizers for alternative lighting effects. Filters and diffusers will require an adapter, part number A08931, due to the size of the input. Customer supplies analyzer.
- Input fits all ColdVision light sources. The ringlights can be used with other manufacturer’s continuous light sources.
- Manufactured in the USA.

*Dimensions in ( ) are in mm

<table>
<thead>
<tr>
<th>Part No.</th>
<th>ID</th>
<th>OD</th>
<th>Working Distance</th>
<th>Bundle Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A08700</td>
<td>4”</td>
<td>9.98”</td>
<td>2” - 8”</td>
<td>30”</td>
</tr>
<tr>
<td></td>
<td>(102)</td>
<td>(127)</td>
<td>(51 - 203)</td>
<td>(762)</td>
</tr>
<tr>
<td>A08710</td>
<td>7.5”</td>
<td>8.95”</td>
<td>2.5” - 4.5”</td>
<td>40”</td>
</tr>
<tr>
<td></td>
<td>(191)</td>
<td>(227)</td>
<td>(64 - 114)</td>
<td>(1016)</td>
</tr>
<tr>
<td>A08715</td>
<td>7.5”</td>
<td>8.95”</td>
<td>Over 4.5”</td>
<td>40”</td>
</tr>
<tr>
<td></td>
<td>(191)</td>
<td>(227)</td>
<td>(Over 114)</td>
<td>(1016)</td>
</tr>
</tbody>
</table>
Large Ringlights

Dimensions in ( ) are in mm

Ringlight Input: Black Anodized Aluminum
Bundle Sheathing: PVC Covered Metal Tubing or Stainless Steel

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

Dimensions in ( ) are in mm

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Darkfield Ringlight

Unique parabolic reflector ring creates a radial “light sheet” for oblique lighting effects

Features
- Eliminates need for a quad lightline and mounting hardware to create similar lighting effects.
- Randomized bundle creates extremely uniform light output.
- Remove the reflector ring to create a long working distance ringlight.
- Can be used with continuous or strobe light sources.
- Input fits all ColdVision light sources.
  The ringlights can be used with other manufacturer’s continuous light sources. Adapters may be required.
- Standard input adapter accepts the full range of all our color filters.
- Three #8-32 threaded mounting holes in the top of the ringlight body facilitate fixturing.
- For positioning, we suggest attaching the A08525 post clamp to the ringlight which is supported by the A08506 articulated arm and A08507 base. These items are found in the Support Apparatus section of the product catalog.
- Rugged aluminum body and light source adapter with black anodized finish.
- PVC covered metal tubing protects the fiber bundle.
- Manufactured in the USA.

Typical Applications
- BGA (Ball Grid Array) inspection.
- Illuminating scratches on highly reflective surfaces.
- Water contamination inspection.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Standard Exit</th>
<th>ID (mm)</th>
<th>OD (mm)</th>
<th>Working Distance</th>
<th>Bundle Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A22780</td>
<td>X</td>
<td>4.03 (102)</td>
<td>5.25 (134)</td>
<td>0” - .25”</td>
<td>30” (762)</td>
</tr>
</tbody>
</table>

*Dimensions in ( ) are in mm
Darkfield Ringlight

Dimensions in ( ) are in mm

Ringlight Input: Black Anodized Aluminum
Bundle Sheathing: PVC Covered Metal Tubing or Stainless Steel

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

Dimensions in ( ) are in mm

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Four-Point Illuminators

The perfect ringlight for variable working distance applications.

Features
- Four-bundle adjustable ringlight.
- Allows the user to change the overall working distance and the angle of each light output to produce the most effective illumination for each application.
- Easy bundle repositioning.
- The bundle tips are 3” (76.2) long and the overall bundle length is 40” (1016).
- Active fiber diameter input is .29” (7.4) and the active fiber diameter output is .14” (3.5) for each bundle.
- The unique clamp ring mounting (like the A08600 ringlight) provides precise positioning. The available clamp diameters are listed in the chart to the left.

Darkfield Illuminator

For uniform darkfield illumination.

Features
- Fiber optic full annular ring configuration.
- Dovetail adapters for a variety of microscopes attach to slide the illuminator into place under the microscope stage. See chart on left for adapter specifications. Please note that a spacer ring, A08644, is required for the A08645 model adapter.
- Does not interfere with microscope operation.
- Light exits at a nominal 20° horizontal angle and will illuminate a 1” (25.4)* diameter area.
- Ringlight comes with a fixed size aperture to shield optics from light.
- Working distance from .10” (2.5) to .38” (9.7).
- Optional Iris Aperture allows adjustment of the darkfield spot size for light sensitive applications.
- Manufactured in the USA.

### Four-Point Illuminators

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Clamp Diameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>A08560</td>
<td>1.85” - 2.44” (47 - 62)</td>
</tr>
<tr>
<td>A08560.1</td>
<td>1.30” - 1.81” (33 - 46)</td>
</tr>
<tr>
<td>A08560.2</td>
<td>2.52” - 3.18” (64 - 81)</td>
</tr>
</tbody>
</table>

### Darkfield Illuminator & Accessories

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A08640</td>
<td>Darkfield Illuminator</td>
</tr>
<tr>
<td>A08641</td>
<td>Iris Aperture</td>
</tr>
<tr>
<td>A08644</td>
<td>Darkfield Spacer Axio 2 for A08645 Adapter</td>
</tr>
<tr>
<td>A08645</td>
<td>Dovetail Adapter for Zeiss Axioplan (see A08644)</td>
</tr>
<tr>
<td>A08646</td>
<td>Dovetail Adapter for Leitz Laborlux, DMR</td>
</tr>
<tr>
<td>A08647</td>
<td>Dovetail Adapter for Olympus</td>
</tr>
<tr>
<td>A08648</td>
<td>Dovetail Adapter for Nikon</td>
</tr>
<tr>
<td>A08649</td>
<td>Dovetail Adapter for Zeiss Axioskop</td>
</tr>
</tbody>
</table>
Four-Point Illuminators

Dimensions in ( ) are in mm

Ringlight Input: Black Anodized Aluminum
Bundle Sheathing: PVC Covered Metal Tubing or Stainless Steel
Body: Black Anodized Aluminum
Distal End: Stainless Steel

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

A08560, A08560.1 & A08560.2
Four-Point Illuminators

A08640
Darkfield Illuminator

A08560 Four-Point Illuminator Bundle

Clamps for Four-Point Illuminators

Dimensions in ( ) are in mm
Ringlight Adapters
For unique microscope objectives.

Features
- Made of black anodized aluminum.
- In stock and ready to ship.
- Manufactured in the USA.

Ringlight Adapters

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Ringlight</th>
<th>Microscope</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>A08606</td>
<td>A08600</td>
<td>B&amp;L Zoom 4</td>
<td>Screws into Objective</td>
</tr>
<tr>
<td>A08607</td>
<td>A08625</td>
<td>Leica SZ4/SZ6 w/ auxiliary lens</td>
<td>Three Thumbscrews</td>
</tr>
<tr>
<td>A08608</td>
<td>A08625</td>
<td>Leica SZ4/SZ6 w/out auxiliary lens</td>
<td>Screws into Objective</td>
</tr>
<tr>
<td>A08609</td>
<td>A08630</td>
<td>Leica SZ7</td>
<td>#6 - 32 Hex Set Screw</td>
</tr>
<tr>
<td>A08626</td>
<td>A08625</td>
<td>Olympus SZ</td>
<td>Screw-on Retaining Ring</td>
</tr>
<tr>
<td>A08628</td>
<td>A08600, A08620</td>
<td>SMZ 645/660</td>
<td>Screws on Objective</td>
</tr>
</tbody>
</table>
Ringlight Adapters

Dimensions in ( ) are in mm

**A08606**
Ringlight Adapter

**A08608**
Ringlight Adapter

**A08626**
Ringlight Adapter

**A08628**
Ringlight Adapter

**A08607**
Ringlight Adapter

**A08609**
Ringlight Adapter

Product improvements may result in specification or feature changes without notice.

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Ringlight Polarizers & Analyzers

The polarizing effect enhances contrast on highly reflective surfaces for Microscopy and Machine Vision Applications.

Standard Features

- The polarizer/analyzer reduces reflection and glare.
- The A08615, A08632, and A08652 polarizers were designed to easily snap-fit onto the ringlight. The analyzer is dropped through the top of the ringlight and positioned on top of the polarizer.
- To prevent the polarizer/analyzer from moving due to vibration, a knurled thumb-screw locks the polarizer assembly into position. In addition, it makes the holder easier to adjust. To further prevent vibration, a set-screw stops the polarizer disk from turning within the assembly. These features are found on polarizer / analyzer model numbers A08615 and A08627.
- Manufactured in the USA.

Polarizers & Analyzers

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Corresponding Ringlights</th>
</tr>
</thead>
<tbody>
<tr>
<td>A08615</td>
<td>A08600, A08603, A08604, A08620, A08625, A08680, A22000, A22025</td>
</tr>
<tr>
<td>A08627</td>
<td>A08625 &amp; Olympus Adapter, part number A08626</td>
</tr>
<tr>
<td>A08632</td>
<td>A08630, A08635</td>
</tr>
<tr>
<td>A08652^</td>
<td>A08650, A08660, A08670</td>
</tr>
<tr>
<td>A08705^</td>
<td>A08700</td>
</tr>
<tr>
<td>A08712^</td>
<td>A08710, A08715</td>
</tr>
<tr>
<td>A22042</td>
<td>A22040</td>
</tr>
<tr>
<td>A22052</td>
<td>A22050, A22060</td>
</tr>
</tbody>
</table>

*Dimensions in ( ) are in mm

^Polarizer ring only. User must supply analyzer.
Ringlight Polarizers & Analyzers

Dimensions in ( ) are in mm
## Ringlight Reflector Rings

### A08616 Reflector Ring Features

*Reflector ring creates special lighting effects.*

- Illuminates scratches on highly reflective surfaces.
- The A08616 reflector ring fits our Universal and 66 mm series of ringlights. See chart below for part numbers.
- The A08616 reflector ring comes in two separate parts; the retaining ring and the reflector ring. The reflector ring drops inside the retaining ring which snap-fits onto the ringlight.
- The reflector ring is made of mirror polished aluminum. The retaining ring is made of aluminum with a black anodized finish.
- In stock and ready to ship.

### A08653 Reflector Ring Features

*Reflector ring creates a radial “light sheet” for oblique lighting effects.*

- Creates darkfield effects which illuminates scratches on highly reflective surfaces.
- The A08653 reflector ring fits our A08660 and A08670 Mini ringlights.
- The A08653 reflector ring is pre-assembled; the retaining ring comes attached to a parabolic reflector ring. This product also snap-fits onto the ringlight.
- The reflector ring is made of mirror polished aluminum. The retaining ring is made of aluminum with a black anodized finish.
- In stock and ready to ship.
- Manufactured in the USA.

### Ringlight Reflector Rings

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Ringlights</th>
</tr>
</thead>
<tbody>
<tr>
<td>A08616</td>
<td>A08600, A08603, A08604, A08620, A08625, A08680</td>
</tr>
<tr>
<td>A08653</td>
<td>A08660, A08670</td>
</tr>
</tbody>
</table>
Ringlight Reflector Rings

Dimensions in ( ) are in mm

A08616 Ringlight Reflector Ring

A08653 Ringlight Reflector Ring

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