

# 50mm Dia., 124° Diffusion Angle, Linear Batwing Diffuser



Angle Bending Diffuser

Stock **#70-772** 20+ In Stock

-

1

+

₹8,222

Price inclusive of all taxes

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | ₹8,222 each                   |
| Qty 10-25      | ₹5,756 each                   |
| Qty 26-49      | ₹5,344 each                   |
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General

Type:

Linear Batwing Diffuser

Note:

Glossy, specularly-reflective side should face incident light for optimal performance.

Physical & Mechanical Properties

|                                                                                                                                                                                                         |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 50.00 ±0.13                                                                                                                                                                                             | Diameter (mm):              |
| 1.75 +/-0.36                                                                                                                                                                                            | Thickness (mm):             |
| Optical Properties                                                                                                                                                                                      |                             |
| 124                                                                                                                                                                                                     | Diffusing Angle (°):        |
| PMMA                                                                                                                                                                                                    | Substrate: □                |
| Environmental & Durability Factors                                                                                                                                                                      |                             |
| -34 to +70                                                                                                                                                                                              | Operating Temperature (°C): |
| Regulatory Compliance                                                                                                                                                                                   |                             |
| <a href="#">View</a>                                                                                                                                                                                    | Certificate of Conformance: |
| United States                                                                                                                                                                                           | Country of Origin:          |
| Edmund Optics India Private Limited<br>267, Greystone Building, Second Floor,<br>6th Cross Rd, Binnamangala,<br>Stage 1, Indiranagar, Bengaluru,<br>Karnataka, India 560038<br>Phone: +91- 80-6845 0000 | Imported By:                |

## Product Details

- High Efficiency, Angle Bending, Batwing, and Elliptical Configurations Available
- Transmission Efficiency >88%
- Low-Cost, High-Performance Diffusers

Beam Shaping Diffusers provide an even distribution of LED and fluorescent illumination in a variety of configurations including High Efficiency, Angle Bending, Batwing, and Elliptical while maintaining a high transmission efficiency of >88%. The high efficiency and angle bending configurations provide even light distribution whereas the batwing and elliptical configurations distribute light according to their respective geometries. Beam Shaping Diffusers feature diffusing angles between 8° - 127° and are available as 25mm diameter unmounted optics with a thickness of no more than 1.75mm, enabling easy integration into a variety of bench top or OEM applications. These Diffusers are ideal for applications where excellent depixelation, angle control, color mixing, and color uniformity are required.

## Technical Information

| BEAM SHAPING DIFFUSERS   |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                            |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of Diffuser         | Description                                                                                                                                                                                                                                                                                                                   | Diffusion Example                                                                                                                                                          |
| High Efficiency Diffuser | High Efficiency Diffusers are ideal for providing even illumination in LED applications. They provide excellent depixelation, angle control, and color uniformity.                                                                                                                                                            |      |
| Linear Batwing Diffuser  | Linear Batwing Diffusers diffuse light in a batwing distribution, ideal for eliminating central hotspots from a light source. Incident light should be from the glossy, specularly-reflective side of these diffusers for optimal performance. Light distributions may vary significantly depending on the light source used. |    |
| Elliptical Diffuser      | Elliptical Diffusers diffuse light assymmetrically, creating an elliptical light pattern. The diffusing angles are specified as W x L.                                                                                                                                                                                        |   |
| Angle Bending Diffuser   | Angle Bending Diffusers both redirect and diffuse incident light, ideal for creating diffuse lighting in space-constrained environments.                                                                                                                                                                                      |   |