Cloudy Day Illuminator

Omron Microscan’s wide range of NERLITE products can illuminate any part or mark for successful machine vision and auto ID applications.

CDI illuminators provide extraordinary diffuse lighting performance for critical applications. The patented design makes it ideal for inspecting highly faceted and undulating reflective surfaces. CDI illumination allows products to be inspected in the package, including blister-packaged pharmaceutical products or computer chips inside of a clear packaging tube.

**CDI: At a Glance**

- Outstanding uniformity
- Self-contained cloudy day lighting for highly complex applications
- Makes glass and clear plastic container surfaces disappear
- Ideal for extremely difficult specular surfaces

**Illumination Example:**

<table>
<thead>
<tr>
<th>Object</th>
<th>Resulting Image</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Wrinkled foil pouch" /></td>
<td><img src="image" alt="Wrinkled foil pouch image" /></td>
</tr>
</tbody>
</table>

**Application Examples**

- Differentiate specular, diffuse, or absorptive features on bumpy/wrinkled surfaces
- Reduce shadows
- Diminish clear overcoats or coverings
- CD/DVD artwork verification
- Packaged product inspection (pharmaceuticals, computer chips)

For more information on this product, visit [www.microscan.com](http://www.microscan.com).
NERLITE® CDI® Specifications and Options

CDI 200/75

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>nm/K</th>
<th>CONT. CURRENT</th>
<th>LUX</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDI-200/75, Red Continuous</td>
<td>636 nm</td>
<td>300 mA</td>
<td>1300</td>
</tr>
<tr>
<td>CDI-200/75, White Continuous</td>
<td>0500 K</td>
<td>500 mA</td>
<td>2000</td>
</tr>
</tbody>
</table>

Light Aperture: 5.2” (132 mm) diameter  
Field of View: 3” (75 mm)

Stand Off: 1” (25 mm)  
Weight: 56 oz. (1597 g)

Dimensions: H 8.12” (206.3 mm) x W 9.78” (248.5 mm) x D 6.16” (156.4 mm)

ENVIRONMENTAL
Operating Temperature: 0° to 40° C (32° to 104° F)
Storage Temperature: 0° to 50° C (32° to 122° F)
Humidity: up to 95% (non-condensing)

LIGHTING PARAMETERS
Light Aperture Defined: Area of light output from the coaxial illuminator.

LIGHT SOURCE
Type: High output LEDs
Light Output: Lux (lumens per square meter)
Expected Life: 50,000 hours (Red LEDs)
Expected Life: 10,000 hours (White LEDs)
Eye Safety: EN 60825-1: Class 1

CONNECTOR
Type: DB9 female panel mount, 15ft (4.5M) DB9 male to flying leads cable included

ELECTRICAL
Power: 24 VDC +/- 1%

CE COMPLIANT
ISO CERTIFICATION
Certified ISO 9001:2008 Quality Management System

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Omron Microscan Applications Engineering is available to assist with evaluations. Results may vary depending on symbol quality.

Warranty—For current warranty information on this product, please visit www.microscan.com/warranty.

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