**NERLITE® Dome**

**Uniform Lighting Solution**

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

Dome illuminators are an economical source of diffused, uniform light. Their large, solid angle of illumination supports imaging of curved, shiny or bumpy surfaces. They are a cost-effective alternative to NERLITE CDI illuminators for applications not requiring an on-axis lighting component.

**Dome: At a Glance**

- Economical and widely-used general purpose designs
- Easily integrated
- Continuous or strobed diffused LED illumination

**Illumination Example:**

**Object**
![Object Image]

**Resulting Image**
![Resulting Image]

**Bottom of aerosol can:** Uniform illumination of concave surface results in contrast against printed characters.

**Application Examples**

- Illuminate diffused or specular, flat or curved surfaces
- CD/DVD label inspection
- Inspection of surfaces for contaminants (particles, residues)

For more information on this product, visit [www.microscan.com](http://www.microscan.com).
DOME 150

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>nm/K</th>
<th>CONT. CURRENT</th>
<th>LUX</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOME-150, Red Continuous</td>
<td>636</td>
<td>80 mA</td>
<td>950</td>
</tr>
<tr>
<td>DOME-150, White Continuous</td>
<td>6500 K</td>
<td>160 mA</td>
<td>2270</td>
</tr>
</tbody>
</table>

Light Aperture: 4" (102 mm) diameter
Weight: 18 oz. (510 g)
Dimensions: ∅ 6.19" (157.3 mm) x D 3.28" (83.3 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 (Red, White LEDs)

CONNECTOR
Type: 15 ft. (4.5 m) integrated cable with flying leads

ELECTRICAL
Power (Continuous Models): 24 VDC +/- 1%
Power (Strobe Models): 1 ms max. pulse width, 6% max duty cycle, use of NERLITE NL-200 Series Lighting Controller is required.