NERLITE® Bar Light

Available In Three Sizes

Available In Three Colors

Compact Lighting Solution

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

Bar lights are an economical source of uniform incident lighting in a low profile, compact shape. Useful for both dark field (creating shadows and specular reflection) and bright field lighting, adjustments to working distance and angle provide good image contrast on diffused surfaces. Models for continuous or strobe operation support static or high speed applications.
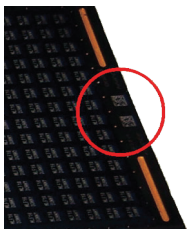
Bar Light: At a Glance

- *Economical, general purpose design*
- *Provides even illumination in a concentrated area*
- *Address a broad range of applications via light positioning in bright field or dark field*
- *Variety of colors and sizes for both continuous and strobe operation*
- *Sturdy housings combined with LEDs rated at up to 50,000 hours*
- *Diffuser accessory included*

Camera

Bar Light

Object

Illumination Example:

Object

Resulting Image

Application Examples
- Locate or measure outside dimensions
- Illuminate flat, diffused surfaces
- Product defect inspection
- Label placement verification
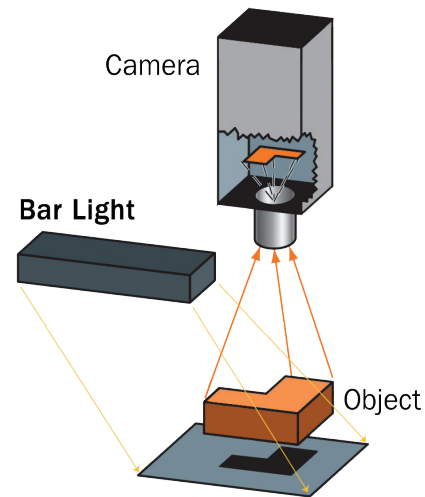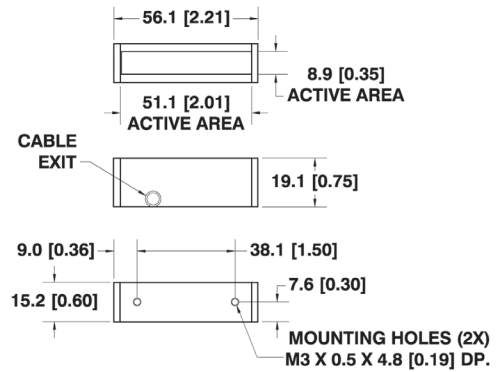- Non-diffuse incident (front) lighting
- Dark field or bright field lighting

Circuit board: Image captured shows high contrast Data Matrix symbols.

For more information on this product, visit www.microscan.com.

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NERLITE® BAR LIGHT SPECIFICATIONS AND OPTIONS

LA 50

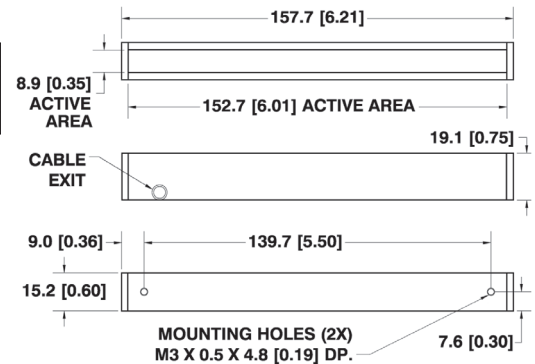| DESCRIPTION	nm/K	CONT. CURRENT	mcd/cm²	
			DIFFUSE	NON-DIFFUSE
LA-50-1, Red Continuous	660 nm	23 mA	2980	5520
LA-50-1, White Continuous	6500 K	40 mA	3348	6200

Active Area: 2" x 0.35" (51 mm x 8.9 mm) **Weight:** 3 oz. (78 g)
Dimensions: H 0.75" (19.1 mm) x W 2.21" (56.1 mm) x D 0.6" (15.2 mm)

LA 150

DESCRIPTION	nm/K	CONT. CURRENT	mcd/cm²	
			DIFFUSE	NON-DIFFUSE
LA-150-1, Red Continuous	660 nm	69 mA	2484	4600
LA-150-1, White Continuous	6500 K	120 mA	3348	6200

Active Area: 6" x 0.35" (153 mm x 8.9 mm) **Weight:** 5 oz. (136 g)
Dimensions: H 0.75" (19.1 mm) x W 6.21" (157.7 mm) x D 0.6" (15.2 mm)

CE COMPLIANT

ISO CERTIFICATION
Certified ISO 9001:2008 Quality Management System

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.

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
Active Area Defined: Area of light output from the illuminator.

LIGHT SOURCE
Type: High output LEDs
Light Output: Millicandelas per square centimeter (mcd/cm²)
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.

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