

NERLITE® LALL™



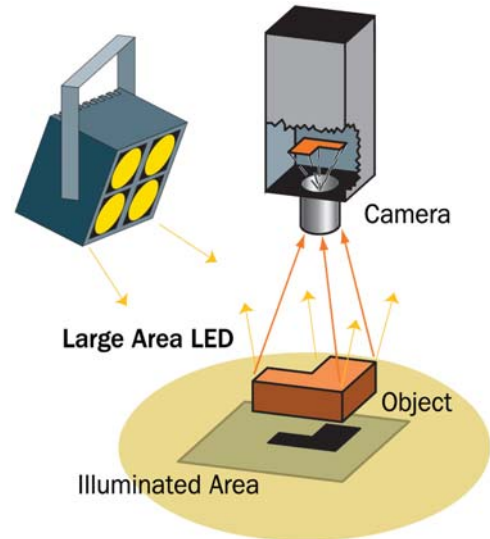
Large Area LED Lighting

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

LALL illuminators are an ideal solution for lighting small to very large areas, from close proximity or at a distance, or whenever very high intensity is required. The LALL's high intensity, lower power consumption, compact and easily integrated design, strobe capability and long life make them an excellent choice for both new installation and as replacements for less robust light sources.

LALL: At a Glance

- Designed to comply with NEMA 4X
- Suitable for both indoor and outdoor use
- Provides protection against falling and splashing liquids, seals out non-hazardous dust, lint and fibers
- Features 10 or 50 degree lens options
- Corrosion resistant
- Passively cooled



Illumination Example:

Object



Resulting Image



Large housing assembly: Detect presence or absence of fasteners.

Application Examples

- Robotic guidance/manipulation
- Package sorting inspection
- Traffic monitoring
- Food processing and packaging
- Automotive/aerospace assembly
- Large surface inspection (roadways, railways, runways)

NERLITE® LALL™ SPECIFICATIONS AND OPTIONS

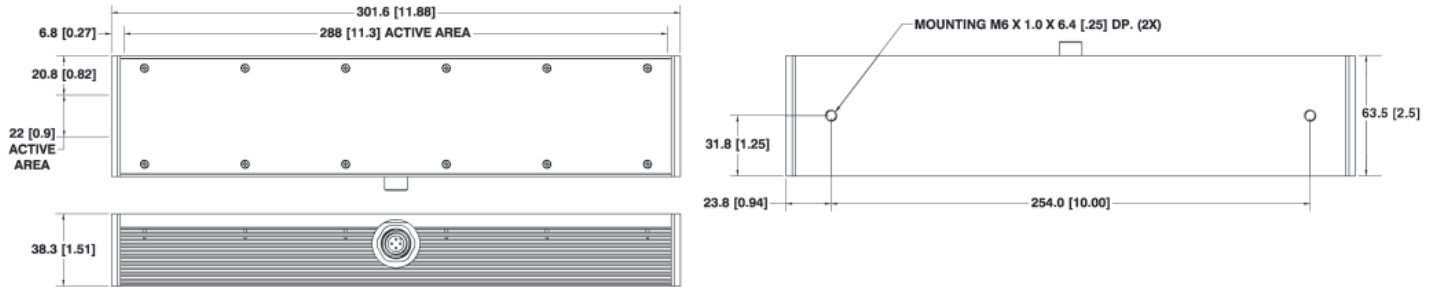
LALL 22x288

DESCRIPTION	LENS	nm/K	CONT. CURRENT	STROBE CURRENT	lm/cm ²
LALL-22x288, Red	10°	625 nm	700 mA	1.0 A	32
LALL-22x288, Red	10° Polarized	625 nm	700 mA	1.0 A	12
LALL-22x288, Red	50°	625 nm	700 mA	1.0 A	32
LALL-22x288, White	10°	5500 K	700 mA	950 mA	22
LALL-22x288, White	10° Polarized	5500 K	700 mA	950 mA	8
LALL-22x288, White	50°	5500 K	700 mA	950 mA	22

Active Area: 0.9" (22 mm) x 11.3" (288 mm)

Weight: 36 oz. (1030 g)

Dimensions: H 2.5" (63.5 mm) x W 11.88" (301.6 mm) x D 1.51" (38.3 mm)



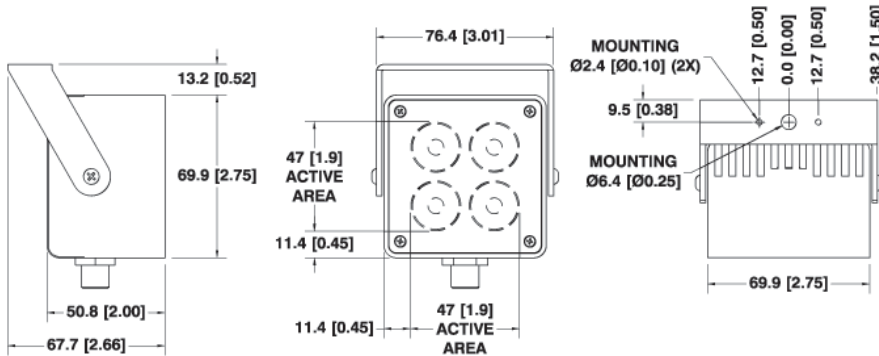
LALL 47x47

DESCRIPTION	LENS	nm/K	CONT. CURRENT	STROBE CURRENT	lm/cm ²
LALL-47x47, Red	10°	625 nm	350 mA	500 mA	32
LALL-47x47, Red	50°	625 nm	350 mA	500 mA	32
LALL-47x47, White	10°	5500 K	350 mA	470 mA	22
LALL-47x47, White	50°	5500 K	350 mA	470 mA	22

Active Area: 1.9" (47 mm) x 1.9" (47 mm)

Weight: 16 oz. (454 g)

Dimensions: H 3.27" (83.1 mm) x W 3.01" (76.4 mm) x D 2.66" (67.7 mm)



ENVIRONMENTAL

Enclosure: Black anodized aluminum, IP64 rated

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: Lumens per square centimeter (lm/cm²)

Expected Life: 50,000 hours

Eye Safety: EN 60825-1: Class 2

CONNECTOR

Type: M12 male panel mount, 15 ft. (4.5 m) M12 female to flying leads cable is included

ELECTRICAL

Power (Continuous Operation): Use of NERLITE LC Series or NL-200 Series controller is required. See LALL configuration guide to select appropriate controller for your application.

Power (Strobe Operation): 1 ms max. pulse width, 6% max duty cycle. Use of NERLITE NL-200 Series controller is required.



CE COMPLIANT

ISO CERTIFICATION

Certified ISO 9001:2008 Quality Management System

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Microscan Applications Engineering is available to assist with evaluations. Results may vary depending on symbol quality. **Warranty**—One year limited warranty on parts and labor. Free extended three year warranty available with online product registration.

MICROSCAN®

Microscan Systems Inc.

Tel 425 226 5700 / 800 251 7711

Fax 425 226 8250

Microscan Europe

Tel 31 172 423360 / Fax 31 172 423366

Microscan Asia Pacific

Tel 65 6846 1214 / Fax 65 6846 4641

www.microscan.com

Product Information: info@microscan.com

Auto ID Support: helpdesk@microscan.com

Vision Support: visionsupport@microscan.com

NERLITE Support: nerlitesupport@microscan.com