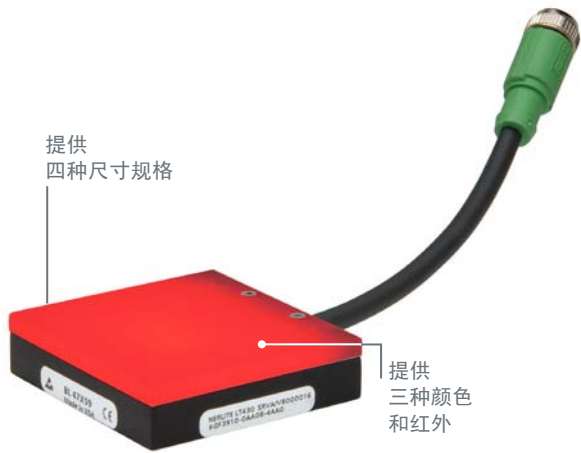


## NERLITE® 背光灯



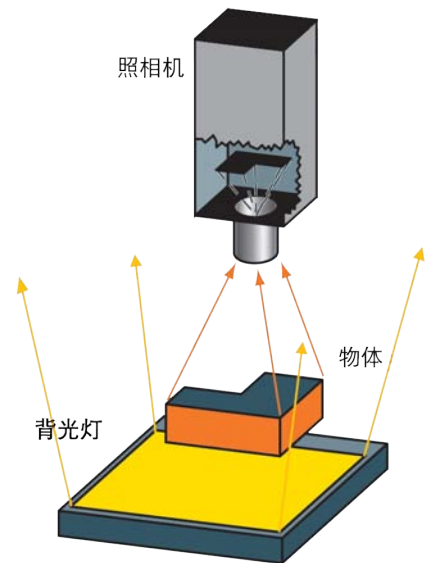
## Edge To Edge 背光照明解决方案

Microscan 种类繁多的 NERLITE 产品可为所有部件或标记提供照明支持，从而成功实现机器视觉和自动识别应用。

Edge To Edge 背光照明产品系列可提供强烈的对比度，从而能够勾画出部件的外形轮廓、找到边缘并可检查通孔（如钻孔）。Edge To Edge 技术支持结合使用多个光源产品来满足大型视场应用的需求。这款外观小巧的产品具有很高的亮度和均匀性，可实现最佳的热量管理。

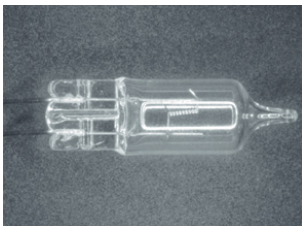
### 背光灯：简介

- 可结合使用多个光源以扩大照明面积
- 多种颜色和波长，连续电源和频闪电源均适用
- 照度均匀性高，可再现结果
- M12 连接器可轻松连接电源、驱动程序或高级控制器
- 外观小巧紧凑，适于灵活集成

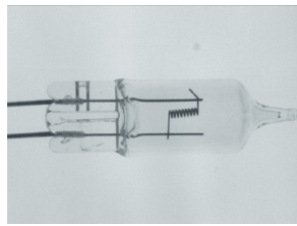


### 照明示例：

物体



结果影像



灯泡：结果影像中清晰呈现了灯泡内灯丝的轮廓。

### 应用实例

- 定位或测量外形尺寸
- 检查通孔（如钻孔）
- 减少透明玻璃或塑料外壳
- 测量材料厚度
- 查找安装孔
- 测量半透明性
- 漫射入射（正面）照明

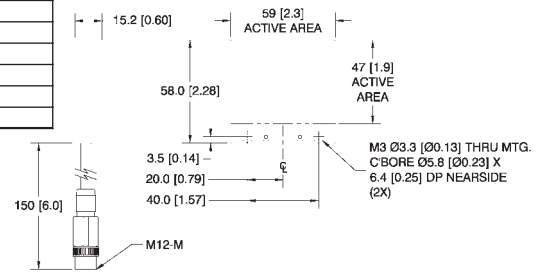
# NERLITE® EDGE TO EDGE BACKLIGHT SPECIFICATIONS AND OPTIONS

## BACKLIGHT 47x59

DESCRIPTION	nm/K	CONT. CURRENT	STROBE CURRENT	mcd/cm <sup>2</sup>	mw/cm <sup>2</sup>
BL, 47x59, Red Continuous	640 nm	93 mA		77	
BL, 47x59, Red Strobe	640 nm		2.67 A	1100	
BL, 47x59, White Continuous	6500 K	201 mA		880	
BL, 47x59, White Strobe	6500 K		3.34 A	11670	
BL, 47x59, Blue Continuous	470 nm	170 mA		177	
BL, 47x59, Blue Strobe	470 nm		3.0 A	2510	
BL, 47x59, Infrared Continuous	880 nm	140 mA			1.6
BL, 47x59, Infrared Strobe	880 nm		4.0 A		23

**Active Area:** 1.9" x 2.3" (47 mm x 59 mm) **Weight:** 3 oz. (80 g)

**Dimensions:** H 2.28" (58 mm) x W 2.3" (59 mm) x D 0.6" (15.2 mm)

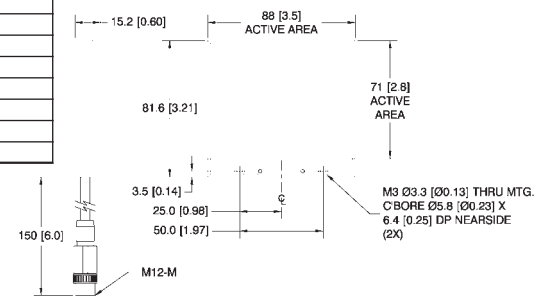


## BACKLIGHT 71x88

DESCRIPTION	nm/K	CONT. CURRENT	STROBE CURRENT	mcd/cm <sup>2</sup>	mw/cm <sup>2</sup>
BL, 71x88, Red Continuous	640 nm	170 mA		77	
BL, 71x88, Red Strobe	640 nm		5.01 A	1135	
BL, 71x88, White Continuous	6500 K	330 mA		810	
BL, 71x88, White Strobe	6500 K		9.0 A	11050	
BL, 71x88, Blue Continuous	470 nm	310 mA		175	
BL, 71x88, Blue Strobe	470 nm		9.0 A	2575	
BL, 71x88, Infrared Continuous	880 nm	220 mA			1.5
BL, 71x88, Infrared Strobe	880 nm		7.5 A		26

**Active Area:** 2.8" x 3.5" (71 mm x 88 mm) **Weight:** 5 oz. (140 g)

**Dimensions:** H 3.21" (81.6 mm) x W 3.5" (88 mm) x D 0.6" (15.2 mm)

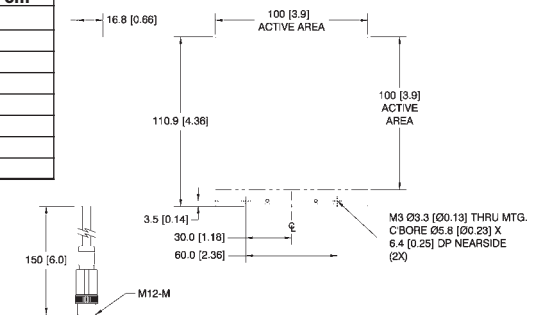


## BACKLIGHT 100x100

DESCRIPTION	nm/K	CONT. CURRENT	STROBE CURRENT	mcd/cm <sup>2</sup>	mw/cm <sup>2</sup>
BL, 100x100, Red Continuous	640 nm	155 mA		95	
BL, 100x100, Red Strobe	640 nm		4.99 A	700	
BL, 100x100, White Continuous	6500 K	350 mA		625	
BL, 100x100, White Strobe	6500 K		9.98 A	7100	
BL, 100x100, Blue Continuous	470 nm	320 mA		125	
BL, 100x100, Blue Strobe	470 nm		9.98 A	1570	
BL, 100x100, Infrared Continuous	880 nm	250 mA			1
BL, 100x100, Infrared Strobe	880 nm		7.99 A		16

**Active Area:** 3.9" x 3.9" (100 mm x 100 mm) **Weight:** 7 oz. (200 g)

**Dimensions:** H 4.36" (110.9 mm) x W 3.9" (100 mm) x D 0.66" (16.8 mm)

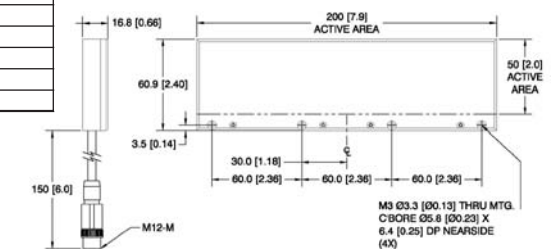


## BACKLIGHT 50x200

DESCRIPTION	nm/K	CONT. CURRENT	STROBE CURRENT	mcd/cm <sup>2</sup>	mw/cm <sup>2</sup>
BL, 50x200, Red Continuous	640 nm	155 mA		95	
BL, 50x200, Red Strobe	640 nm		4.99 A	700	
BL, 50x200, White Continuous	6500 K	350 mA		625	
BL, 50x200, White Strobe	6500 K		9.98 A	7100	
BL, 50x200, Blue Continuous	470 nm	320 mA		125	
BL, 50x200, Blue Strobe	470 nm		9.98 A	1570	
BL, 50x200, Infrared Continuous	880 nm	250 mA			1
BL, 50x200, Infrared Strobe	880 nm		7.99 A		16

**Active Area:** 2.0" x 7.9" (50 mm x 200 mm) **Weight:** 8 oz. (230 g)

**Dimensions:** H 2.4" (60.9 mm) x W 7.9" (200 mm) x D 0.66" (16.8 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

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

## LIGHT SOURCE

**Type:** High output LEDs

**Light Output:** Millicandelas per square centimeter (mcd/cm<sup>2</sup>)

**Radiant Output:** Milliwatts per square centimeter (mw/cm<sup>2</sup>)

**Expected Life:** 50,000 hours

**Eye Safety:** EN 60825-1: Class 1 (Red, White, Infrared LEDs); Class 2 (Blue LEDs)

## CONNECTOR

**Type:** 6 in. (150 mm) cable terminated with 4-pin M12 male connector

## 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.

## 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. 公司**

电话: +1 425 226 5700 / 800 251 7711

传真: +1 425 226 8250

**Microscan 亚太有限公司**

电话: +65 6846 1214 / 传真: +65 6846 4641

**Microscan 上海**

电话: +86 21 61133752 / 传真: +86 21 61133683

**Microscan 广州**

电话: +86 20 28873800 / 传真: +86 20 28873848

**Microscan 北京**

电话: +86 10 59935887 / 传真: +86 10 59935999

**www.microscan.com**

**产品信息:**

info@microscan.com

自动识别支持:

helpdesk@microscan.com

**视觉支持:**

visionsupport@microscan.com

**NERLITE 支持:**

nerlitesupport@microscan.com