



PHLOX

A VISION  
AHEAD

HOW TO READ THE PRODUCT KEY

Manufacturer	Source colour	Light Output Area/Length	Injection process	Input voltage
PHLOX	- LEDR	- BL - 20x20	- LLUB	- Q - 1R - 24V
Source type	Product type	Range	Number of light sources' rows per cicu	

PHLOX® EXCLUSIVE LIGHT PROCESS  
WORLDWIDE PATENT ISSUED

**NEW!**

# LLUB (Long life Ultra Bright) Red led Backlight 20x20

LESS THAN 20% LUMINANCE LOSS AFTER 100 000 HOURS (\*)

PHLOX - LEDR - BL - 20x20 - LLUB - Q - 1R - 24V

## Illumination

Luminance minimum	≥11 000 cd/m <sup>2</sup> continuous mode
Uniformity minimum	≥95% (+/- 10%)
Source Type	Red LED
Wavelength	625 nm(+/- 15)
Light Angular Distribution	30° 1/2 angle
Expected Life	> 100 000 hours

## Electrical

Input Voltage	24 VDC (continuous mode)
Input Current	≤120 mA (continuous mode)
Cable length	2 M - Ø 2.7 mm (6.56 ft - Ø 0.10")
Connector	None
Cable pinout	■ + ■ -
CE Conformity	Yes
Strobe mode	Max. Cur: 0,48 A / Pulse Width: 10ms / Duty Ratio: 1/10

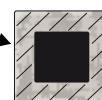
## Outer unit

L x W x H	60 x 55 x 8.5 mm (2.36 x 2.17 x 0.334")
Housing Material	Black Anodized Aluminium
Weight	80 g (2.82 oz)
Mounting	4 bore holes (D8 for the first 3.5 mm of height, D4 for the other 5.5 mm)

## Environmental

Max. Operating Humidity	95% non-condensing
Operating Temperature	50°C (122°F) max
Storage Temperature	60°C (140°F) max
Shelf life	12 months from date of purchase
Max.temp.on housing	+80°C (+176°F)

area of temperature measurement  
30mm all along the edges of the back of  
the black anodized aluminium housing  
(see image)



Do not cover the backlight when it's switched on.

## Accessories

**Power supply:** 110V and 220V  
Product key: OMRON-LED-PS-108x100x40-24V

## « Strobe » Control Module

GARDASOFT RT Series Led Lighting Controllers  
You can find the nearest distributor on  
<http://www.gardasoft.com/distributors.php?id=2>

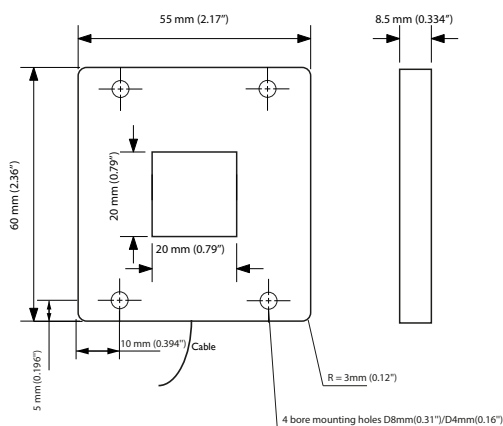
CLASS 0: NO RISK (CIE S2009:2002/NF EN 62471)

**RoHS** directive compliant

Each PHLOX Backlight is provided with:

- 24 months warranty
- Certificate of uniformity and luminance
- Seal of quality on the back

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LLUB Backlights by PHLOX® offer the **best life cycle**, and the **best luminance on the market**, all in an ultra compact and IP-65 body. PHLOX® is the only manufacturer to provide uniformity and luminance datas on the quality control seal positioned at the back of every backlight.

## DESIGNED

### FOR YOUR APPLICATION

- Bottle inspection (glass and plastic)
- Particle measurement
- Picture digitalization
- Dimensional control
- Shaping control
- Quality control with transparency.

## & YOUR INDUSTRIAL SECTOR

- Glassmaking
- Pharmaceutical/Cosmetics
- Automotive
- Agribusiness
- Electronics
- Aeronautics and space.

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