



Flexible light

**Up to
3 meters**

High Speed

MegaStrobe™

Easy-to-mount

**Adjustable
angle**



effiLux Efficient
Led Lighting

LGHT-T

Ultra high-power logistic bar light

PART NUMBER KEY

STANDARD VERSION

LGHT - T		LLL	CC	- XX	YY	ZZ
	Type	Optical Length (mm)	Color	Detail	Rev	Custom
	T=Transportation	400	● RD (Red 625 nm)	00 = NA	0	0

Example: LGHT-T400RD-0000 is a 400mm red logistic light.

Note: The standard LGHT-T Series is delivered as a package including light, lens plate and three windows:

- Lightly-diffusive window
- Semi-diffusive window
- Opaline window

The light is delivered assembled in the default configuration with the lens plate positioned at Position 2 (45°) and the Lightly-diffusive window.

ACCESSORIES

OPTICS	
Polarizer	LGHT-A400BP-000
MECHANICS	
Pivot joint	BRKT-LBMT-U000 Variable angle, Bolt kit included

LGHT-T series

Illumination Mode		Ultra High-power strobe (<i>Strobe only</i>)
Wavelengths		625nm (+/- 5%) (<i>Other wavelength upon request</i>)
Power Supply		24V DC +/- 10%
Connector(s)	INPUT (male)	M12 - 5pins
Power Consumption	Average	40W max.
	Peak (Max.)	80W max. (<i>Exact value indicated on the product label</i>)
Built-in driver version		MegaStrobe™ feature
Response Time		< 1µs
Frequency		Internal Frequency protection: 150Hz max.
Strobe duration		Internal Strobe length protection: 400µs max.
Input signal		PNP trigger input: Light ON: from 4V to 24V / Max. signal consumption: 2mA
Weight		1.2 kg
Dimensions		60mm x 47mm x 435mm
Material		Device body: Aluminium alloy & ABS / Window and caps: PMMA
Fastener		One T-slot on the back for M6 T-nuts 8mm slot (2x M6 T-nuts included)
Caps color		Color Name: ZEBRA Green 1 / Color ID: 4R7D001
IP rating		IP5X (dust protected)
Operation environment		Temperature: 0°C to 40°C - Humidity: 20 to 85%RH (with no condensation) - Altitude: Up to 2000m
Storage environment		Temperature: -20° to 60°C - Humidity: 20 to 85%RH (with no condensation)
Informations		Overvoltage category I - Protective class III - Pollution degree 3
Regulations & Marking		CE - UKCA - FCC - ICES-3/NMB-3
Environmental Standards		RoHS Directives (2011/65/EU, 2015/863/EU and China RoHS) - REACH Regulation - WEEE Regulation
Country of Origin		France

OPTICAL SPECIFICATIONS

MANY POSSIBLE CONFIGURATIONS IN JUST ONE LIGHT

Diffusers

LD : Lightly-diffuse



SD : Semi-diffuse



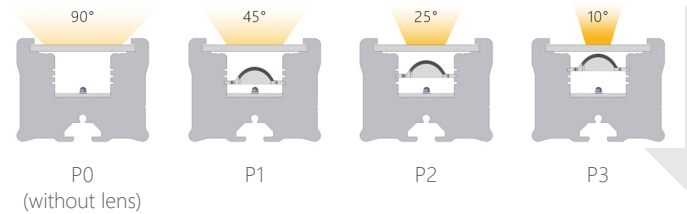
OP : Opaline



The LGHT-T Series is shipped with three different diffusers. Depending on the uniformity needed for the application, the user can easily change the diffuser to one that fulfills the application requirements.

Lens position

The LGHT-T offers flexible lens positioning to control the beam angle. The user can adjust it by himself: the angle can be widened by moving the lens closer to the LEDs or narrowed by moving the lens further away from the LEDs.

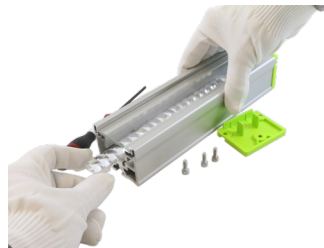


How to change the optical configuration of your LGHT-T?

The LGHT-T offers flexible lens positioning to control the beam angle and different type of diffusers to adapt the uniformity. The user can easily change the diffuser and the lens position.



Unscrew the M4 screws and remove the cap (without connector)



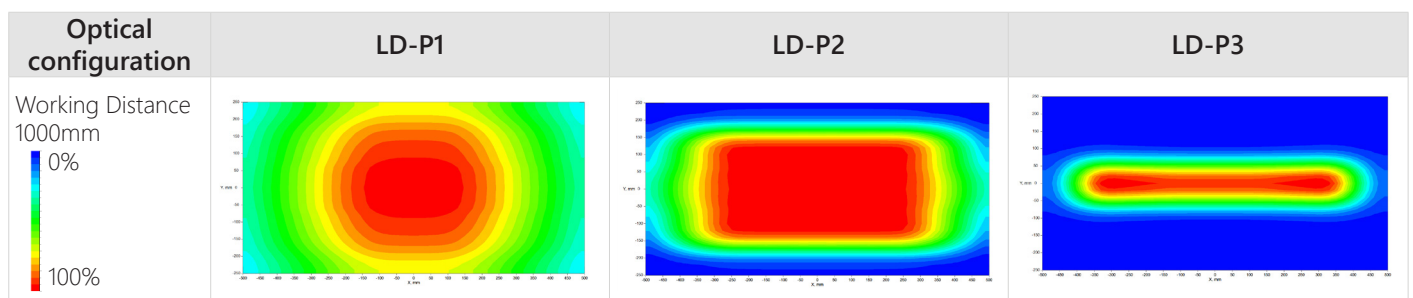
Slide out the window and all lenses



Place the lenses & window in desired configuration

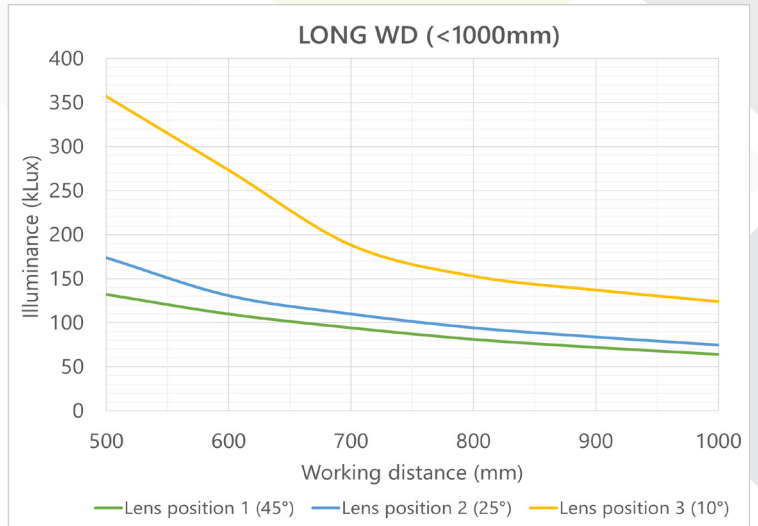
OPTICAL IMPACT

Lens position VS Illuminated area



OPTICAL IMPACT

Lens position VS Irradiance



Note: Measurement done with a Red, 800 mm light, LD window

OPTION: POLARIZER ACCESSORY



Without polarizer

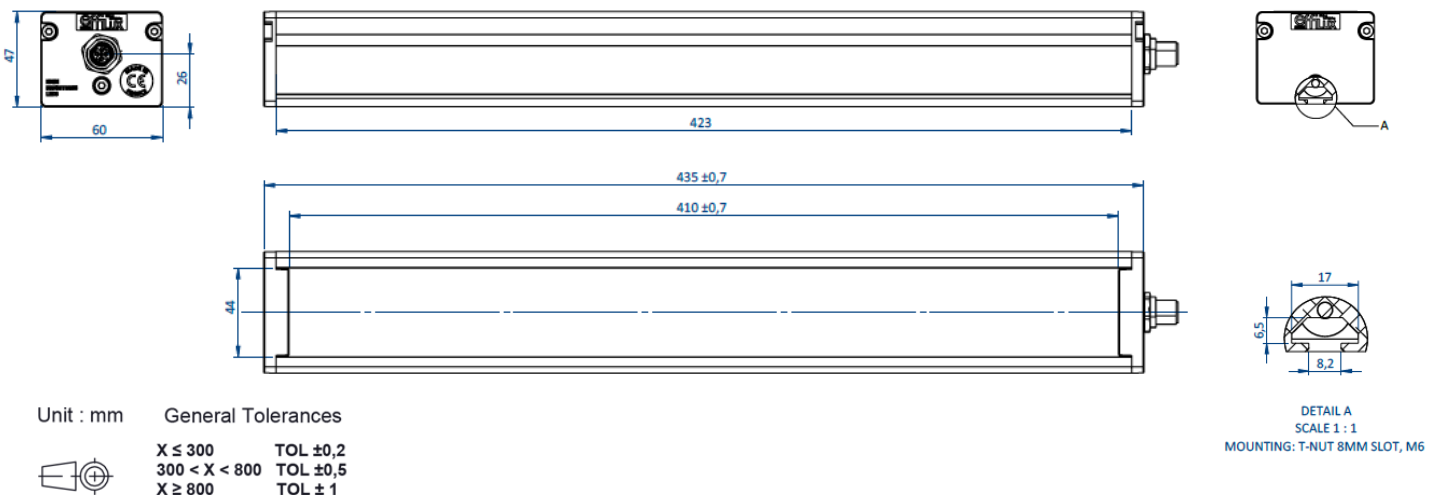


With polarizer

Important note: The polarization is optimal with an LD window, the use of diffuser (SD or OP) can depolarize the light.

MECHANICAL SPECIFICATIONS

DIMENSIONS (in mm)



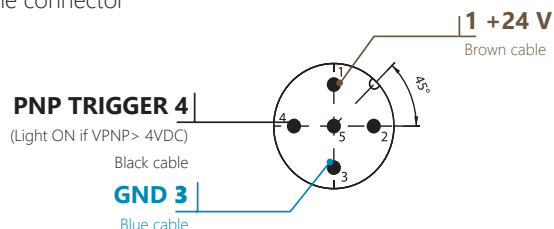
ELECTRONICAL SPECIFICATIONS

WIRING LAYOUT - STANDARD CONNECTOR VERSION

The LGHT-T requires 24V DC input power. Note the trigger pin needs to be connected to a PNP trigger signal.

M12 - 5 pins

male connector



POWER CONSUMPTION

The LGHT-T integrates **boosters technology** to limit the power consumption.

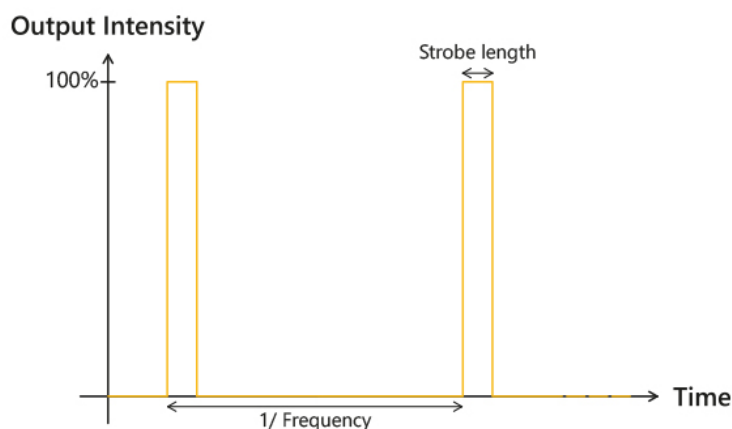
MAX POWER CONSUMPTION (+/- 5%) at 150Hz - 400μs (Red version - Standard software - 2 meters cable)	
Optical Length (mm)	400mm
Average power consumption (W)	40W
Peak power consumption (W)	80W

INITIALIZATION PHASE

When LGHT-T is supplied, the product first enters in a few seconds initialization phase. This initialization is a sequence of very short strobes of increasing intensity. Please wait until the end of this initialization to use the product (max 5 seconds).

MEGAStrobe FEATURE

The integrated driver with MegaStrobe feature allows Ultra high-power strobes.



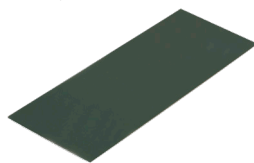
MegaStrobe	
Strobing time (internal protection)	400μs max
Frequency (internal protection)	150Hz max
Rising time	<1μs
Falling time	<2μs

ACCESSORIES

Please refer to the specific documentation for additional information on the accessories of the LGHT-T.



Diffusers



Polarizer



Extension Cables



Fasteners



Power supplies



Camera Filters

CUSTOMIZATION

Please ask your sales contact for a custom device.



Connector options



Extra power



Other wavelengths

CONTACT INFORMATION

Please refer to the specific documentation (datasheet, user manual and drawing) for complementary information. Contents of this document are based on information available as of Jan-2022 and may be changed without prior notice.



EFFILUX
1, Rue de Terre Neuve
Mini Parc du Verger - Bâtiment E
91940 Les Ulis - FRANCE

Tel: +33 9 72 38 17 80
Fax: +33 9 72 11 21 69
Mail: sales@effilux.fr

Copyright 2022 Effilux - All rights Reserved