TLX MARINE
KANVASLIGHT®

TOTALLUX
MARINE LED SOLUTIONS

Kanvaslight® in partnership with TOTALLUX

Kanvaslight® was specifically engineered for a long life in a salty, sun-drenched environment. The system invented by Guardtex is UL certified in North America and received the CE certification in Europe. Kanvaslight® is the only illuminating fabric integrated into a canvas that is available in the market and can be used in multiple applications like Bimini tops, seating, decor, sun shades, etc…

New, patented technology allows you to use your textile structures as a broad lighting surface. It creates a perfectly diffused light for gathering and entertaining beneath. The integrated lighting creates a smart, cleanline installation that is only there when you need it. The technology and installation is designed specifically for the demanding outdoor industry.

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THE ILLUMINATING FABRIC

IBEX 2021 INNOVATION AWARDS WINNER

DAME DESIGN AWARD

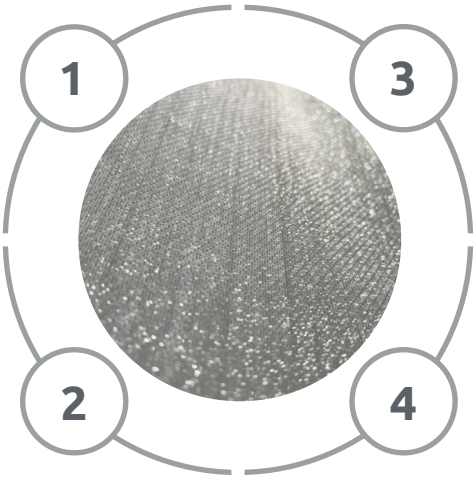
WHAT IS THE PRODUCT?

New, patented Kanvaslight® technology turns any of your textile structures into a dynamic lighting piece. Kanvaslight® is a polymer optical fiber that creates a perfectly diffused light, perfect for any project that requires/wants a light. Whether for functional or aesthetic lighting, Kanvaslight® will revolutionize how to bring light to any situation.

1 FLEXIBLE, RESISTANT & THIN

Fabric is only 1mm thick

3 WATERPROOF & UV RESISTANT



2 LOW CONSUMPTION

5VDC to 24VDC

Power ranges: 2.5W to 30W

4 SAFE

Non-Aggressive Lighting

Thermal Regulation

No electricity flowing through the fabric

Kanvaslight® revolutionizes lighting by using optical fibers in a way that has never been seen before. By weaving the optical fibers into a fabric, Kanvaslight® is able to turn any textile structure into a beautiful lighting piece. Kanvaslight® can be integrated into any textile or composite and is designed to survive any environment.

Kanvaslight® can be integrated with:

• Sewn • Glued • Stitched • And more…

Contact us for integration recommendations.

LIGHT INJECTOR

Kanvaslight® uses the concept of light transportation to bring you a beautiful lighting piece to any textile structure. The light injector has all the electricity. Plugged into a power source, the light injector shines a powerful light into the optical fibers that are weaved into the fabric. The optical fibers transport the light through the fabric, bringing you the light you need. Electricity is only in the light injector. Due to light transportation, the fabric only needs the optical fibers to be able to light any space.

TECHNICAL DATA

WEIGHT

Illuminating Fabric weight:

2.38 Oz/sq ft

(550g/m²)

MATERIAL

The illuminating fabric is woven with:

• Polyester white yarns (other color options on demand).

• PMMA optical fibers 0.5mm Diameter

TEMPERATURE

Acceptable temperature:

-22°F to 176°F

(-30°C to 80°C)

SMOOTH PERFORMANCE FABRIC

This fabric has a lower density of optical fibers. This option is perfect for aesthetic lighting. Perfect as a design tool, for accent lighting or retro-lighting.

Part # - SKU	Length A (Feet | cm)	Width B (Inch | cm)	Extension C (Inch | cm)	Luminance (cd/m²)	Light Injection
1-4-7-R-FW	4' | 120	1'' | 2.5	6.5''| 15	155	1
2-4-7-R-FW	4' | 120	2'' | 5	6.5''| 15	95	1
4-4-7-R-FW	4' | 120	4''| 10	6.5''| 15	48	1
8-4-7-R-FW	4' | 120	8''| 20	6.5''| 15	24	1
1-8-7-R-FW	8' | 240	1''| 2.5	6.5''| 15	77	1
2-8-7-R-FW	8' | 240	2''| 5	6.5''| 15	48	1
4-8-7-R-FW	8' | 240	4''| 10	6.5''| 15	25	1
8-8-7-R-FW	8' | 240	8''| 20	6.5''| 15	13	1

HIGH PERFORMANCE FABRIC

This fabric has a higher density of optical fibers built into the fabric. This allows for a greater amount of light to be emitted from the fabric.

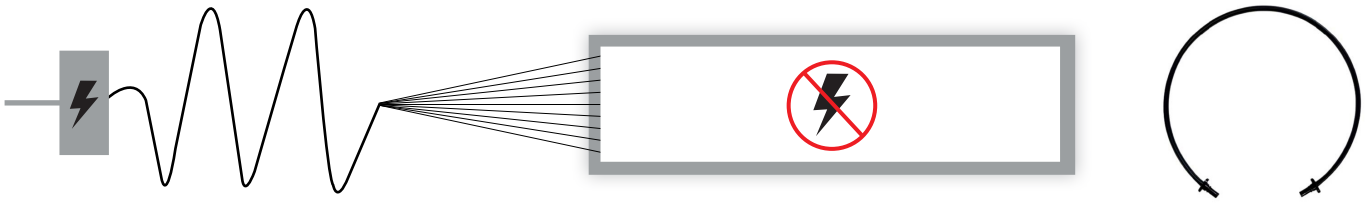
Part # - SKU	Length A (Feet)	Width B (Inch)	Extension C (Inch)	Luminance (cd/m²)	Light Injection
8-3.7-15-R-FW	3.7' | 110	8'' | 20	15'' | 40	175	2
1-4-15-R-FW	4' | 120	1'' | 2.5	6.5'' | 15	310	1
2-4-15-R-FW	4' | 120	2'' | 5	6.5'' | 15	190	1
4-4-15-R-FW	4' | 120	4'' | 10	6.5'' | 15	95	1
1-8-15-R-FW	8' | 240	1'' | 2.5	6.5'' | 15	155	1
2-8-15-R-FW	8' | 240	2'' | 5	6.5'' | 15	95	1
4-8-15-R-FW	8' | 240	4'' | 10	6.5'' | 15	50	1

LIGHT INJECTORS

Part # - SKU	Description	Volt (DC)	Power (W)	RGB	Dimm-able	Injection outputs	Controllers compatible	Dimensions (mm)
I-12-10-2-W2700-N	Bimini Top injector	12-24	15	NO	YES	2	12V-24V Dimmer Controller	250x90x40mm (9.8”x3.5”x1.6”)
I-5-2.5-1-W3000-N	Warm white Injector	5-16	2.5	NO	YES	1	12V-24V Dimmer Controller	90x40x30mm (3.5”x1.6”x1.2”)
I-12-30-1-RGBW-M	RGBW injector	12	<30	YES	YES	1	NMEA 2000 - J1939 and other	50x100x75mm (2”x4”x3”)
I-5-2.5-1-RGB-B	RGB injector	5-16	2.5	YES	YES	1	Bluetooth - Phone App (IOS & Android)	90x40x30mm (3.5”x1.6”x1.2”)

All our light injectors integrate a safety fuse, thermal regulation and a minimum waterproof rating of IP66.

OPTICAL WIRES



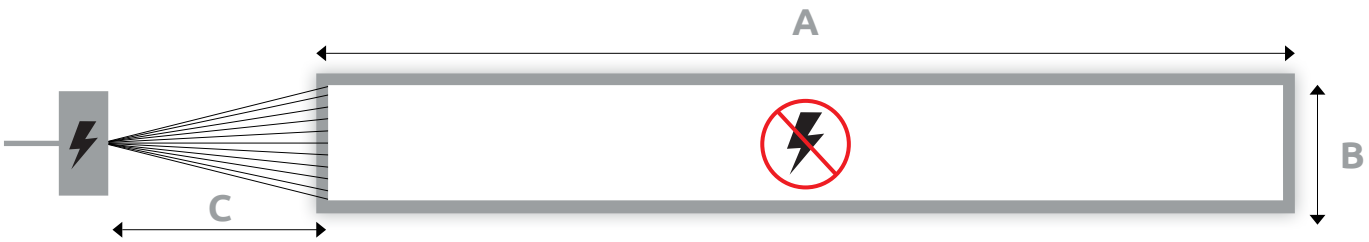
To integrate the electronic device further away from the illuminating fabric, we developed optical wires made to transport the light between the light injector and the fabric with minimum light losses. No electricity flows into the optical wires, only light.

Part # - SKU	Length (ft | cm)	External Diam (mm)	Internal Diam (mm)	Material	Light Loss percentage
OW-3-11-9	3’ | 90	11	9	PMMA - Optical Fibers Diam 1mm	20 to 30%
OW-6-11-9	6’ | 180	11	9	PMMA - Optical Fibers Diam 1mm	20 to 30%
OW-10-11-9	10’ | 300	11	9	PMMA - Optical Fibers Diam 1mm	20 to 30%
OW-15-11-9	15’ | 450	11	9	PMMA - Optical Fibers Diam 1mm	20 to 30%

For other lengths, please contact us.

CUSTOMIZATION

FABRIC DIMENSIONS



A) is the length of the Fabric
B) is the width of the Fabric
C) is the length of the optical fibers extension (not treated)

Total Length **(A + C)** < 10.5' (3200mm)
The Width **(B)** has to be a multiple of 10mm

Do you need specific dimensions for your project? Are you looking for a nonstandard fabric? We can manufacture specific dimensions for your needs, contact us to receive a quote.

Kanvaslight® fits every project!

CUSTOM DESIGN

Do you want to add your logo into an illuminating canvas? Are you looking to create specific designs for your project?

We offer a wide range of custom design options for the fabric. We can change the color of the yarns or integrate your designs into the canvas.

CUSTOM ELECTRONIC

We can also work with you to create custom light injectors, controllers, or wires for custom projects. Contact us at **info@totallux.nl**

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