

BACKLIGHTING SURFACES

MASTERING LIGHT



EFI Lighting develops backlighting surfaces for car lighting

EFI Lighting uses Lighttex® technology, an optical fiber weaving principle.

This innovative process provides homogeneous luminance over the entire backlighting surface.

The optical fibers are connected to light-emitting diodes (LEDs) that deliver all colors of the visible light spectrum.

Lighttex® products and processes are protected by a number of international patents.

WHAT DO WE MEAN BY "QUALITY OF LIGHT"?

- COLOR CONSISTENCY MATCHING DESIGNER REQUIREMENTS
- COLOR CONSISTENCY THROUGHOUT PRODUCTION
- CONTROLLED DISTRIBUTION OF LIGHT OVER THE ENTIRE SURFACE
- COLOR CONSISTENCY OVER TIME

KEY FEATURES

■ Integrated light-emitting solution:

Innovative light-emitting textile using Lighttex® technology LED module including LED sources, opto-coupler, power controller and connector

■ Flexible design

Customizable geometry (flexible, bendable or rigid)
Complexing possible with other materials (metal, glass, composites ...)
Small space requirement and very low weight (thickness <1 mm, weight <600 g/m²)
Customizable luminance effect
Large color diversity: white, monochromatic or RGB

■ Reduced number of LED sources

■ Single LED source on one side

■ Perfect homogeneity

High luminance stability over the surface (up to several m² with imperceptible attenuation)

■ Quality of light

High quality of light
Full control of light parameters for a perfect and reproducible quality of light

■ Reliability

High reliability level

EFI LIGHTING

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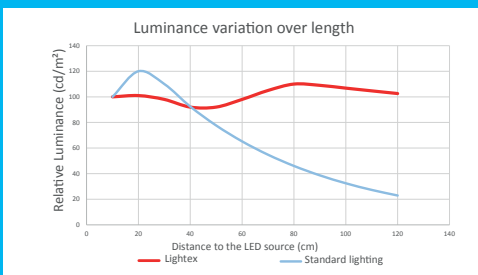
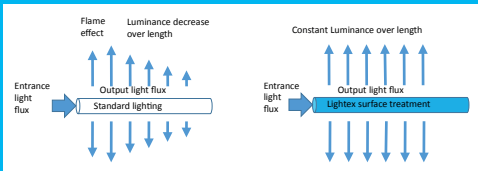


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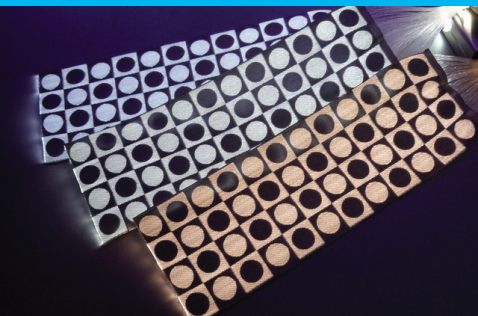
TECHNICAL CHARACTERISTICS

LUMINANCE HOMOGENEITY

Ligthex® technology provides perfect stability of the luminance over the whole lighting surface.



Roof backlighting surface



Shades of white light

LIGHT SURFACE - PRODUCT DATA

Parameter	Typical value
Backlighting textile material	PMMA optical fiber, polyester yarn
Textile density	600 g/m ² - 500µm fiber (standard density) 300 g/m ² - 250µm fiber (standard density) Other densities (available on request)
Dimensions	Up to 3 m wide
Bending radius	10 mm - 500 µm fiber 5 mm - 250 µm fiber

LED MODULE - PRODUCT DATA

Parameter	Typical value
LED sources (all automotive qualified)	Monochromatic, RGB and white
LED controller	Integrated
Heat spreader	Integrated
Luminance dimming	Customer specific
Color dimming	Customer specific

PERFORMANCE DATA

Parameter	Typical value
Luminance range	Customer specific Indicative range: 5 - 2000 cd/m ²
Luminance consistency over surface	Luminance ratio ≤ 1.3 / m Homogeneous luminance: no jumps, smooth diffusing light effect
LED source	One side or both sides
Operating temperature	-40°C to 100°C
Color diversity	White (warmW, neutralW, coldW) RGB: red, blue, green, amber,...
Color consistency	No visible color shift over surface No visible color shift throughout production

All specifications are subject to change without prior notice. This datasheet or any extracts thereof may only be used with express permission of EFI Lighting.

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