

MASTERING LIGHT



EFI Lighting develops light guide solutions for car interior design

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

This innovative process provides homogeneous luminance over the whole length of the guide.

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
- COLOR CONSISTENCY OVER THE WHOLE LENGTH OF THE LIGHT GUIDE
- COLOR CONSISTENCY OVER TIME

KEY FEATURES

■ Integrated light-emitting solution:

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

■ Flexible design

Customizable flexible geometry
 Small space requirement and very low weight (<10 g m)
 Customizable luminance effect
 Large color diversity: white, monochromatic or RGB

■ Single LED source on one side

■ Perfect homogeneity

High luminance stability over length (up to 3 m with imperceptible attenuation)

■ Quality of light

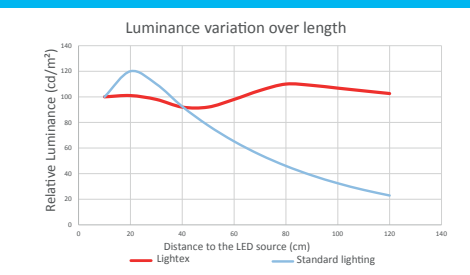
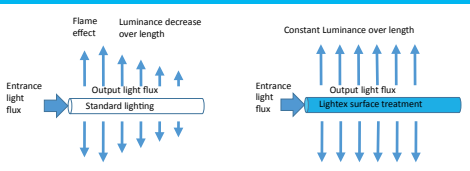
High quality of light
 Full control of light parameters for a perfect and reproducible quality of light

■ Reliability

High reliability level

LUMINANCE HOMOGENEITY

Ligthex® technology applied to light guides provides perfect stability of the luminance over the length of the light guide.



Classic non-homogeneous light guide EFI light guide homogeneous over whole length



LIGHT GUIDE - PRODUCT DATA

Parameter	Typical value
Light guide material	PMMA optical fiber, PE guide
Light guide length range	Up to 3000 mm Customer specific
Light guide outer diameter	4 mm (standard) Customer specific
Bending radius	12 mm
Thermal expansion coefficient	10 ⁻⁴ K ⁻¹
Weight	10 g/m

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 - 2,000 cd/m ²
Luminance consistency over length	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 length 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.

EFI LIGHTING

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