

ENERGY EFFICIENT AND SUSTAINABLE RE-FIT LUMINAIRE SET

Urgent need for action!

Conventional light sources
(fluorescent tubes / halogen bulbs) phased out in August
2023. KITEO offers solutions for each type
(individual length & power supply)

Safety

Conformity with standards thanks to
luminaire certification

Resiliency to grid fluctuations

Converter buffering for longer
service life (LED module not directly
connected to 230 V / 50 Hz)
70,000 h L80B10

Eligible for subsidies

The simple replacement of
light sources (e.g., fluorescent
tube to LED tube) is mostly
excluded from environmental
subsidies.

100% Made in Europe

in accordance with
environmental &
sustainability regulations

Sustainable environmental protec- tion

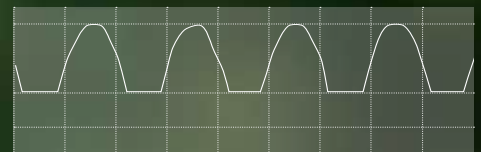
Luminaire housing
remains. Replacement without
structural measures.

Top color rendering

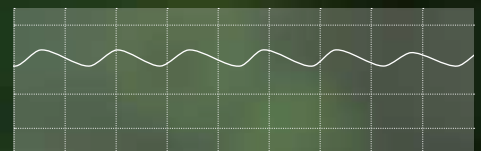
and best viewing comfort
thanks to CRI >90

Flicker-free

No blanking intervals as LEDs not
directly connected to 230 V / 50 Hz



Example illustration of LED directly connected to 230 VAC



Example illustration of LED connected to/via DC converter

Energy efficient with best light quality

Highest efficiency of up to 180 lm/W
Up to 70% energy savings
(30% compared to LED tubes) and no
light scatter losses thanks to
20° beam angle (compared to typical
160-190° -beam angle of LED tubes)

Light scatter loss
due to 160-190° beam angle

No light scatter loss
with KITEO lighting solutions



100% Made in Europe

according to appropriate environmental and sustainability regulations

RETROFITTING OF GRID LUMINAIRES

to a highly efficient lighting solution

with efficiencies of up to 180 lm/W; energy savings of up to 70% compared to fluorescent tubes and up to 30% compared to LED tubes



Plug&Play

Simple mounting with magnetic clips
(average time to convert
grid luminaire 8-12 minutes)



Top color rendering

And excellent viewing comfort
thanks to
CRI 92



Sustainability

The existing luminaire housing can remain.
No structural
measures on the ceiling required.

KITEO RE-FIT SET

Subsidies

The criteria >120 lm/W, CRI
and ENEC certification
are fulfilled



IP54

Protection of the luminaire
(Electronic ballast IP20)



Fully certified LED light source in accordance with ENEC standard (CE, ENEC, UL, EN, etc.)

Flawless product situation in terms of standards,
liability and warranty.

In contrast, the situation with LED tubes is always
critical and contentious in terms of the warranty.
When retrofitting LED tubes, the electrician must
issue a new CE declaration of conformity for the
retrofitted light source.

Fluorescent tubes	Power [W]	KITEO RE-FIT [W]	Energy savings
T5 HO	24	7	71%
T5 HO	39	12	69%
T5 HE	21	8	62%
T5 HE	35	13	63%
T8	18	6	67%
T8	36	13	64%
T8	58	22	62%
T5 HO/ HE ECO...			

Example - Translation table for all common fluorescent tube types (incl. indication of the energy saving)

RETROFITTING OF LINEAR PROFILE LUMINAIRES



Sustainability

The existing luminaire housing can remain.
No structural measures on the ceiling required.



Top color rendering

And excellent viewing comfort thanks to **CRI 92**



IP54

Protection of the luminaire



Fully certified LED light source

Flawless product situation in terms of standards, liability and warranty.

In contrast, the situation with LED tubes is always critical and contentious in terms of the warranty. When retrofitting LED tubes, the electrician must issue a new CE declaration of conformity for the retrofitted light source.



1 tree's worth of CO₂ per luminaire

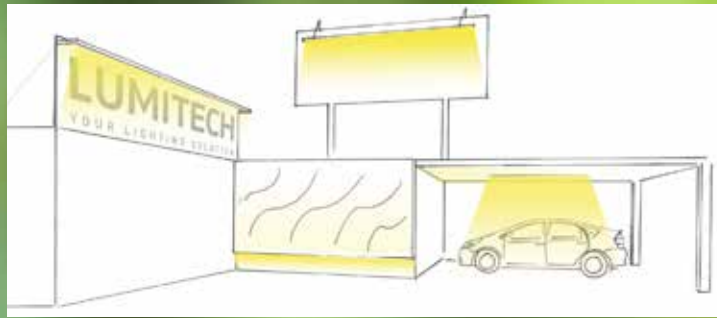
12.5 kg of CO₂ corresponds to the average amount of CO₂ captured by a beech tree each year. Each luminaire* replaced by KITEO can therefore save just as much CO₂ as 1 tree would capture in the same time.

Luminaire	T8	KITEO
System power [W]	18	6
Relative electricity costs [%]	100	33
Savings potential [%]		67
Working days/year	220	220
Use per day [h]	10	10
CO2 savings per year [kg]		12.5

Example – Translation table (common T8 fluorescent tube); applied emissions factor: 474

* Savings depend on type of luminaire, see example

RETROFITTING OF COVE LIGHTING



DISCOVER THE KITEO RE-FIT LUMINAIRE RANGE



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