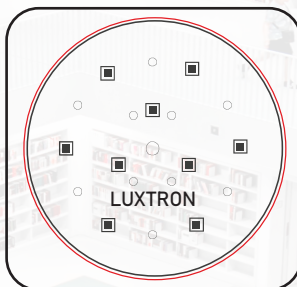
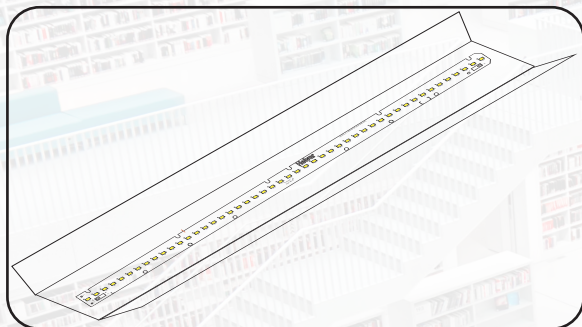


RETRO — Retrofit Kit Family

Our RETRO solution is one of the most advanced, flexible and highly efficient retrofit kits available in the market today. We offer many different ranges of CCT or Tunable white solutions. Keeping flexibility in focus, we can also make emergency or sensor functionality & even have the provision to include different optics using reflectors or lenses.



Advanced features at it's peak

*RETRO
Just mod-it to your hearts content!*

Technical Data

Load Wattage (W)	Entirely depends on efficiency required and no of modules chosen.
Input Voltage (V)	220-240V AC 176-280V DC (for DC, starting voltage > 190VDC)
Beam Angle	120° (from source) Many different options available on next page.
Lens / Diffuser	Transparent or OPAL diffuser Lens for all kinds of applications are available.
Luminous Flux (lm)	Depends on chosen solution.
Lumen / Watt ratio (lm/W)	All our modules have a lm/W ratio > 163 lm/W
Color Temperature (K)	3000K / 4000K / Tunable White others available on request
Colour Rendering Index	80 90 (CRI 90 available for some solutions only)
Dimming Protocols	DALI / 1-10 V / ON-OFF Wireless — on request
Dimensions	Depending on solution chosen and existing fixture.
Installation	To be fit directly into existing fixture.
Maintenance Cycle	No maintenance required.

Salient Features

- Secure and easy to install both electrically and mechanically.
- Gear tray is made out of lightweight powder coated aluminium.
- Highly flexible kit with many different variants and possibilities.
- Units are AC-DC compatible.
- Helps you to keep your original fixture untouched whilst allowing much higher efficiency and lumen output compared to LED tubes.
- Guaranteed higher lumen per wattage ratio (>163 lm/W) and ensured faster returns on investment.
- Suitable with self contained or centralized emergency kits.
- Complete solutions in terms of CCT, Dim To Warm or Tunable White & available in different shapes and sizes.
- Wireless control on request.
- Possibility to add diffusers with different materials and light transmittance levels.
- Many configurations with lenses for different applications. For eg — Symmetric or Asymmetric
- **Note:** All our LED modules can be customized according to performance needs, dimensions, types of LED, optics etc.

RETRO — Retrofit Kit Family

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Light Control

1-10V
DALI
Wireless

Below are solutions to give the reader an idea about the possibilities.

The actual retrofit that shall be proposed may vary and can be altered according to your requirement.

Please contact our staff for more information and ordering codes

Solution No

Isometric View

RETRO-A

Helvar LED modules with a fixed or tunable CCT fully equipped with a gear tray as shown & AC-DC LED driver included with light control option of your choice.

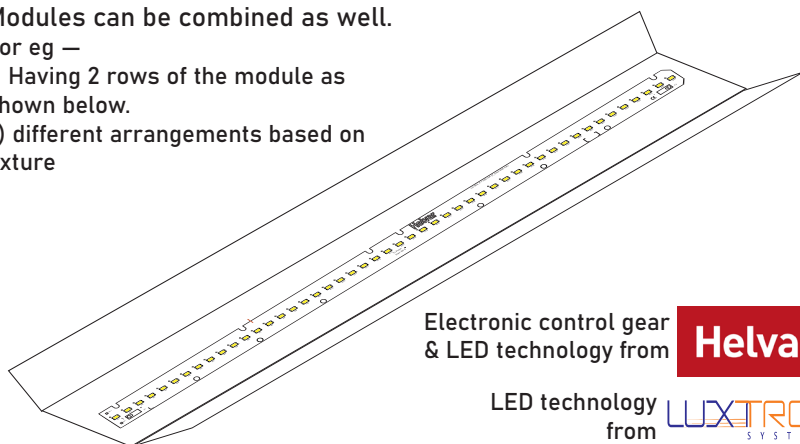
Light control can be DALI/1-10/Wireless.

Note: All our LED modules can be customized according to performance needs, dimensions, types of LED, optics etc.

Modules can be combined as well.

For eg —

- 1) Having 2 rows of the module as shown below.
- 2) different arrangements based on fixture



Electronic control gear
& LED technology from

Helvar

LED technology
from

LUXTRON
SYSTEMS

RETRO-A-LMC

Helvar LED modules with a fixed or tunable CCT with different diffusing options. Equipped with gear tray as shown & AC-DC LED driver included with light control option of your choice.

Diffusing Options:

- Clear polycarbonate — 90% transmittance
- Opal polycarbonate — 90% transmittance
- Matt opal PC - 75% transmittance

Light control can be DALI/1-10/Wireless.



Electronic control gear
& LED technology from

Helvar

LED diffusers
from

Helvar

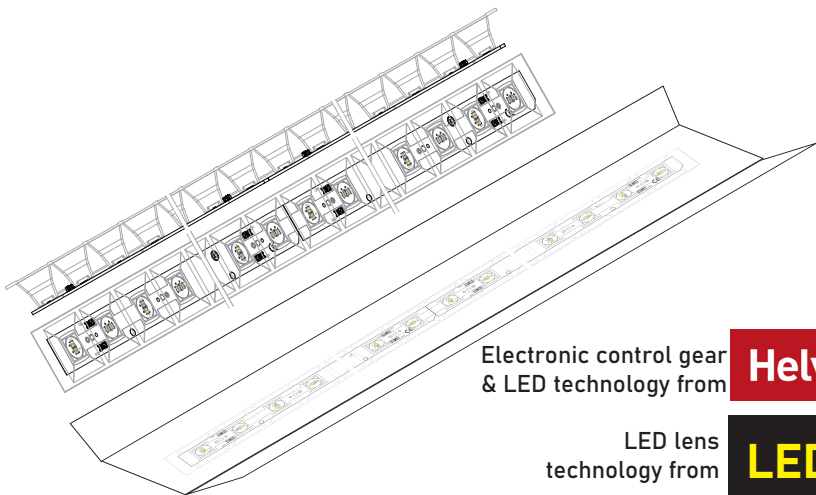
RETRO-A-LENS

Helvar LED modules with a fixed or tunable CCT with different lens options. Many beam angles available for different applications. Equipped with gear tray as shown & AC-DC LED driver included with light control option of your choice.

LENS Options:

- DAISY Family — DAISY 28X1
- LINNEA Family

Light control can be DALI/1-10/Wireless.



Electronic control gear
& LED technology from

Helvar

LED lens
technology from

LEDiL

RETRO — Retrofit Kit Family

Advanced features at it's peak

RETRO — Just mod-it to your hearts content!

Light Control

1-10V
DALI
Wireless

Below are solutions to give the reader an idea about the possibilities.

The actual retrofit that shall be proposed may vary and can be altered according to your requirement.

Please contact our staff for more information and ordering codes

Solution No

RETRO-B

Patented fixture kit for industrial flood lights, high bays, horticulture, area lighting or high mast applications from the LED cooling experts **MechaTronix**.

To top it off, since the LED engine is already IP67 ingress waterproof, the fixture could be kept as a open structure to allow optimized free air convection.

Just to keep things more interesting, these units can be stacked together to deliver a lumen output range from 9,500 - 75,000 lumens.

LED technology from **Luxtron-Italy**, **Citizen-Japan** or **CEZOS-Poland**.

Possibility to have CRI80/90 and much more wider range of CCT along with Tunable White/RGBW options.

Fully equipped with AC-DC LED driver integrated into the unit with a light control option of your choice.

Image / Isometric View



LED technology

LUXTRON
SYSTEMS

CITIZEN

CEZOS

Cooling technology
and fixture kit from

MTX
MechaTronix

Electronic control gear
from

Helvar

LED lens
technology from

LEDiL

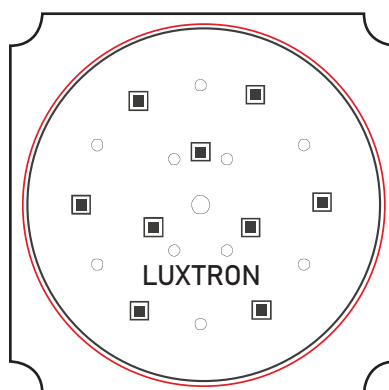
RETRO-C

Circular LED technology either from **Luxtron-Italy** or **CEZOS-Poland** with a fixed or tunable CCT and different lens options.

Equipped with gear tray & AC-DC LED driver included with light control option of your choice.

Light control can be DALI/1-10/Wireless.

Note: All our LED modules can be customized according to performance needs, dimensions, types of LED, optics etc.

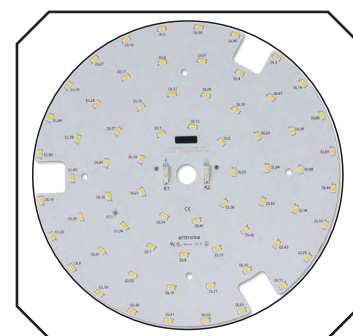


LED technology
from

LUXTRON
SYSTEMS

LED technology
from

CEZOS



Electronic control gear
from

Helvar

LED lens
technology from

LEDiL