

Saving Energy by Sustainable Lighting

Wolfgang Hareter

*Technical Sales Manager,
Fagerhult Central Europe GmbH*

FAGERHULT

FAGERHULT

Our contribution to energy efficiency



Energy efficiency and environmental responsibility

- “Clean and lean” manufacturing
e.g. use of hydroelectric power
- Choice of material and components
- Design to support recycling
- Whenever possible lowest content of hazardous material ex.
 - HG in fluorescent lamps
 - PVC free cables
- Member of national re-cycling initiatives

“our luminaires can be recycled to 100%”



Energy efficiency and environmental responsibility

- Highly efficient lighting solutions
- Lighting systems with intelligent controls, e-Sense
- Great potential for savings – up to 80%

“20-40% of the electric energy consumption in an office building is related to lighting”

FAGERHULT

kWh/m²

A modern office interior featuring a white desk with a black chair, a large window with a view of a building, and a long, rectangular, illuminated desk lamp hanging from the ceiling. The wall is covered in light-colored, modular shelving units with open compartments and closed cabinets. A semi-transparent white banner is overlaid across the center of the image.

e-Sense – intelligent solutions

Actilume – functions



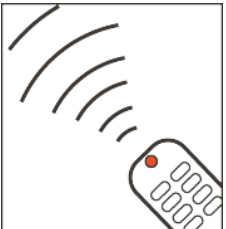
Presence detector

For automatic On and Off function. Light turns off 15 minutes after last presence detection.

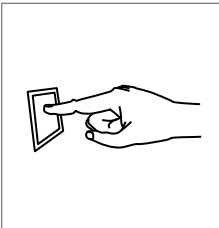
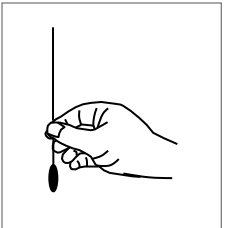


Daylight control

The sensor adjusts automatically the artificial light level to the amount of incoming daylight. If no daylight is present, the function is used to reduce the effect of too bright new light sources.



IR-receiver For control and programming



Manual control (touch)



Kanal B 30% offset During dimming is channel B always 30% offset from channel A.



SCHOOL IN THE MIDDLE OF SWEDEN

Power usage 0,94kW/class room



Power 518W (before 939W) a reduction by ca 45%

518W is used to ca 60% by daylight control and PIR sensors. Total energy saving ca 73%

Green Building Project in Ostrava





Nordica Bank

Ten Line

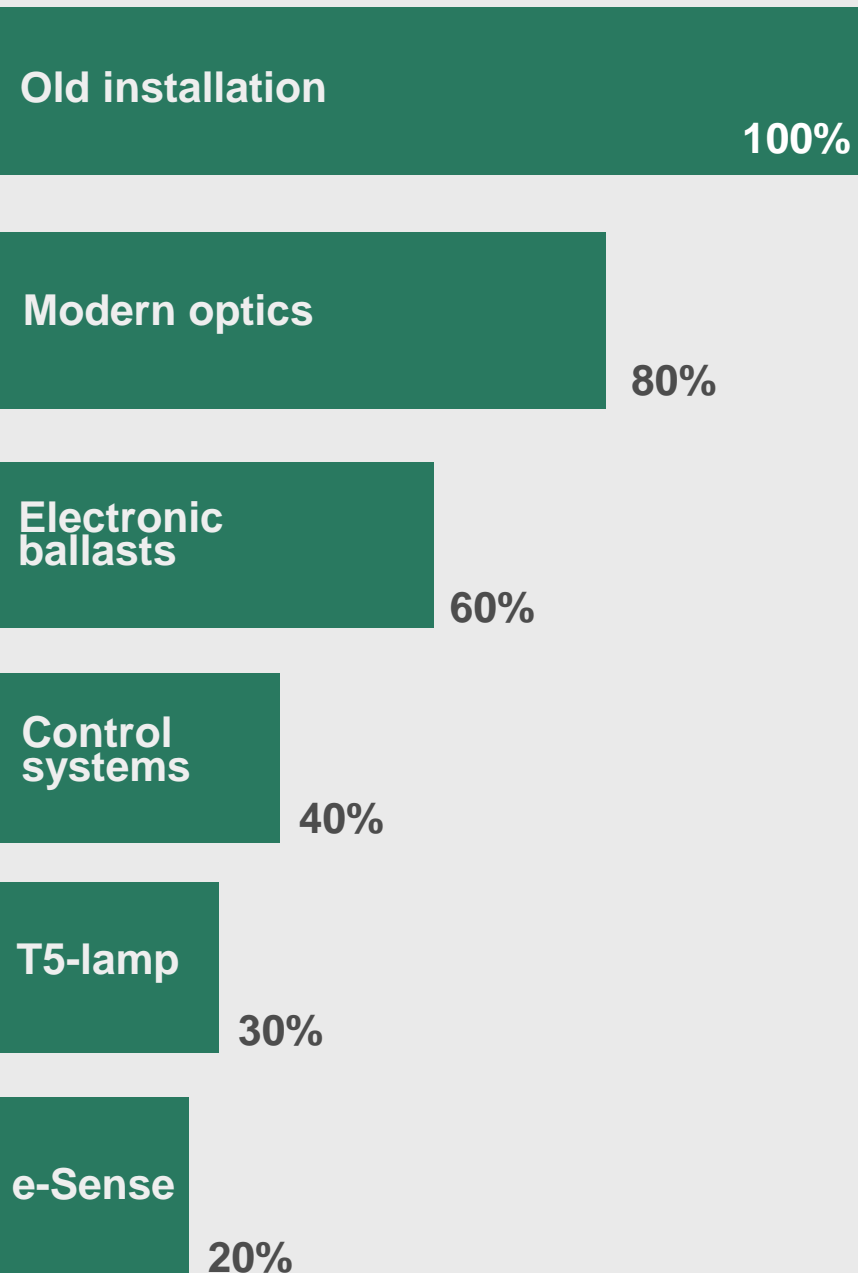
- Ten Line Beta
- total 600 pcs.





Pleiad

- different Pleiad Downlights
- in total 874 pcs.



Energy efficiency and environmental responsibility

- Highly efficient lighting solutions
- Lighting systems with intelligent controls, e-Sense
- Great potential for savings – up to 80%

“The cleanest kWh is the one that does not need to be produced”

THANK YOU FOR YOUR ATTENTION

FAGERHULT