

A LED RELINE TRUNK SYSTEM

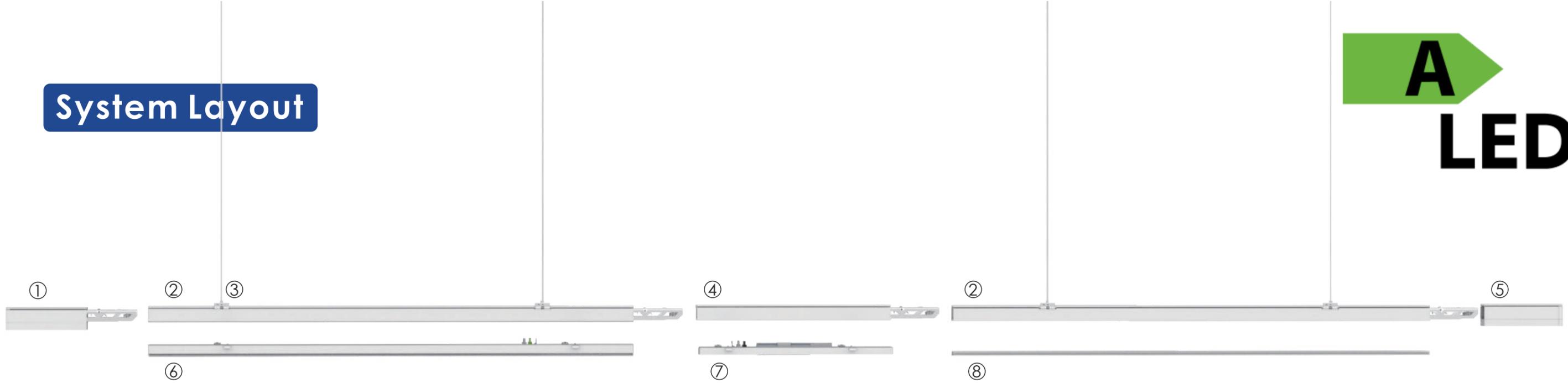


• **INNOVATION**

Trunk linear light -----Reline



System Layout



1) Leading trunk

2) Trunk rail

3) Suspension Kits

4) Trunk rail

5) Ending trunk

6) Luminaire module (lens/PC diffuser)

7) Module with build in track rail

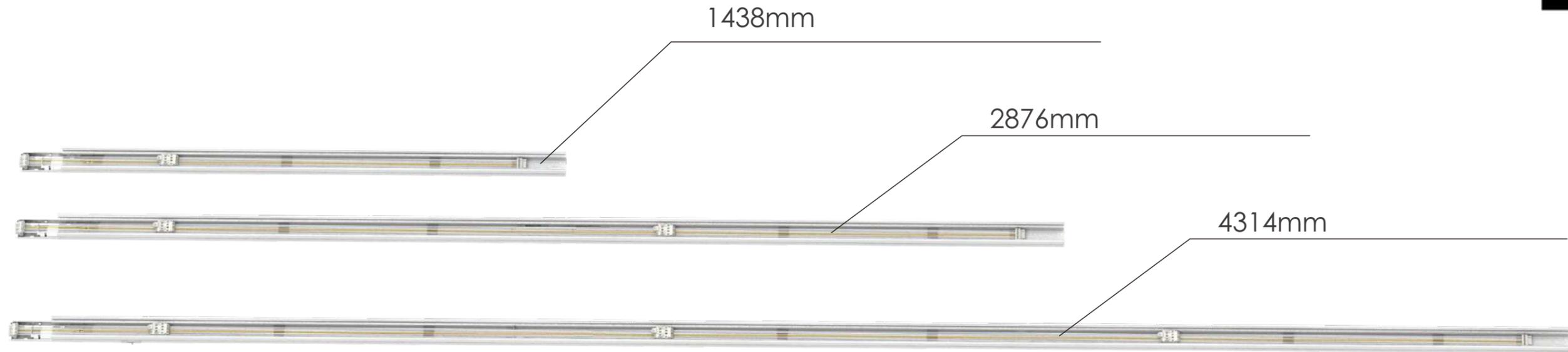
8) Blank cover

Optical lens Color :

PC diffuser Color :



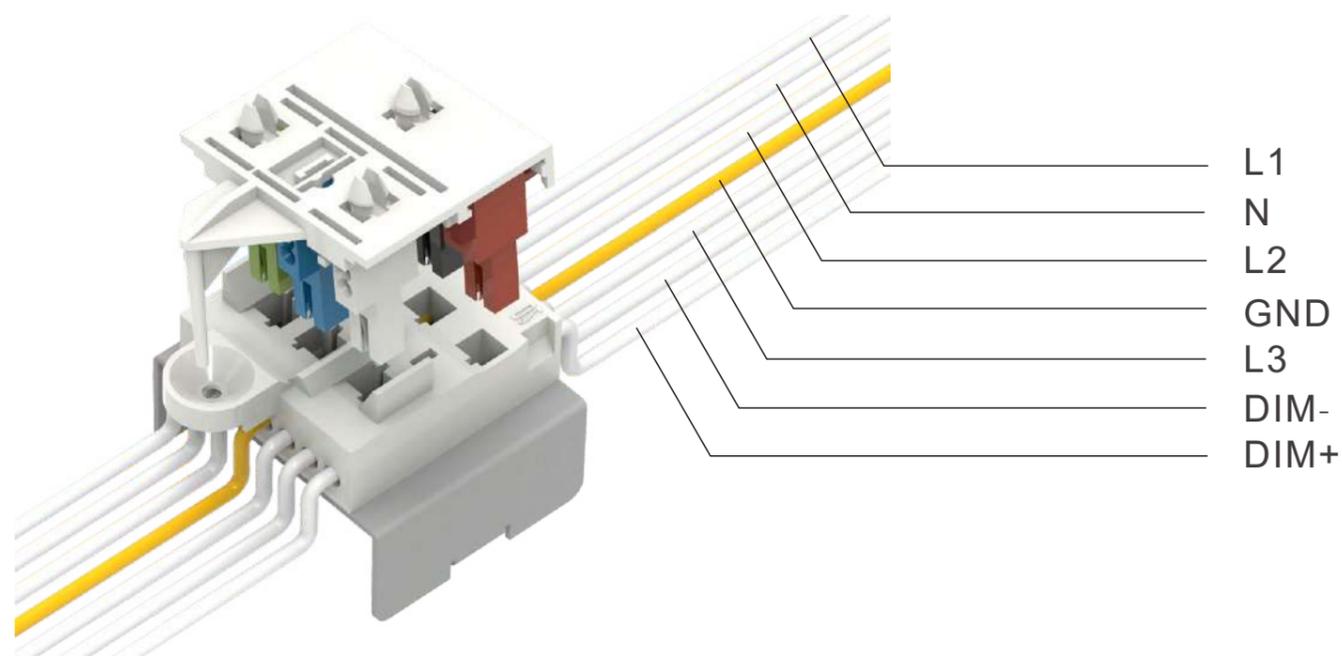
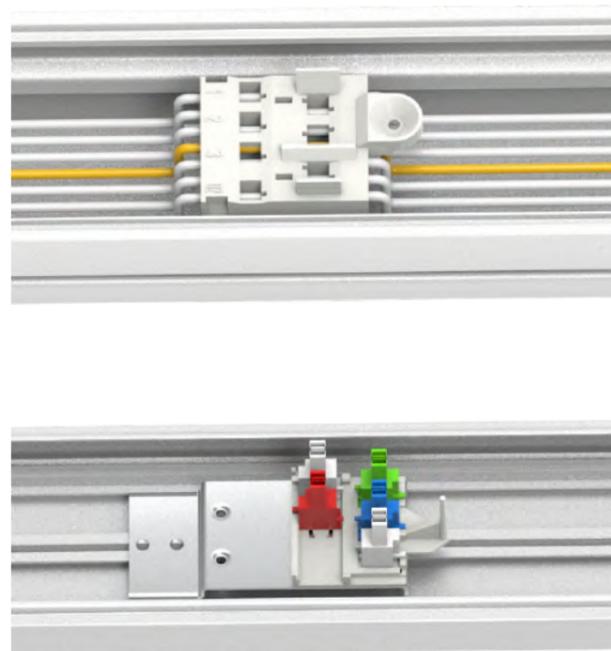
Trunking Rail



Seamless Connection Color :



Pre-wired Solution

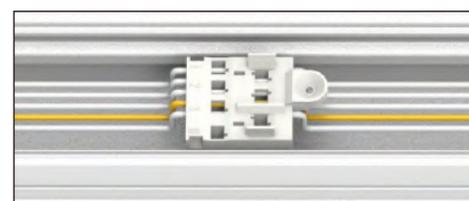


Wires in Trunking Rail

Connector Plug in Luminaire

Usage of Wires

Function Description



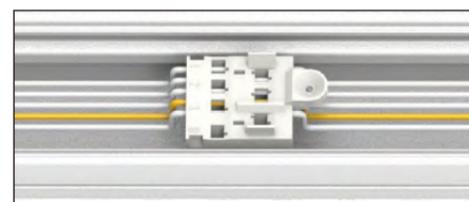
5 Wires



- * Green: GND
- * Blue: N
- * Black L, L2,L3 phase selection knob

L1 N L2 GND L3

Basic Lighting



5 Wires



- * Green: GND
- * Blue: N
- * Red: DIM+
- * Black: L
- * White: DIM-

L N DIM+ GND DIM-

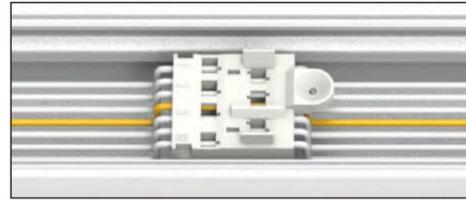
Basic Lighting + Dimming

Wires in Trunking Rail

Connector Plug in Luminaire

Usage of Wires

Function Description



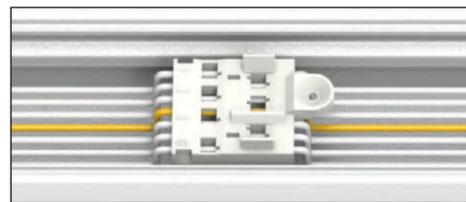
7 Wires



- * Green: GND
- * Blue: N
- * Red: DIM+
- * White: DIM-
- * Black: L, L2,L3 phase selection knob

L1 N L2 GND L3 DIM+ DIM-

Basic Lighting + Dimming



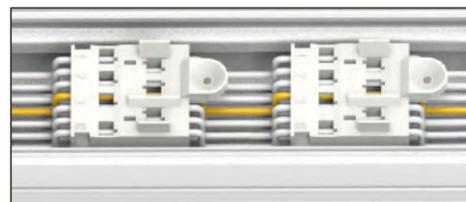
7 Wires



- * Green: GND
- * Blue: N
- * Red: EN
- * White: EL
- * Black: L, L2,L3 phase selection knob

L1 N L2 GND L3 EN EL

Basic Lighting + Emergency



11 Wires



- * Green: GND
- * Blue: N
- * Red: DIM+
- * White: DIM-
- * Black: L, L2,L3 phase selection knob

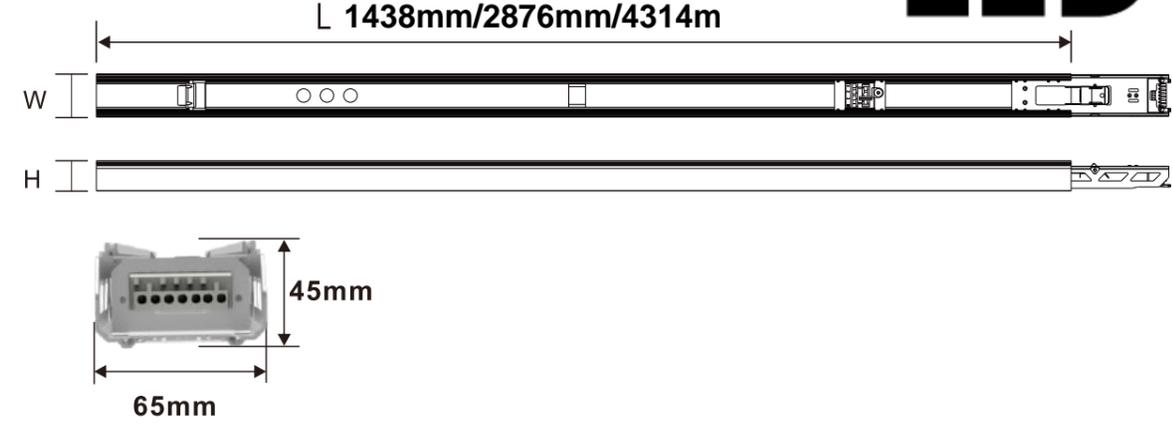
L1 N L2 GND L3 DIM+ DIM-
EN EI1 EI2 EI3

Basic Lighting + Dimming+
Emergency

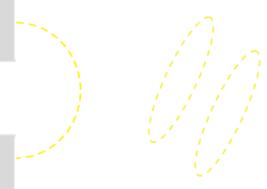
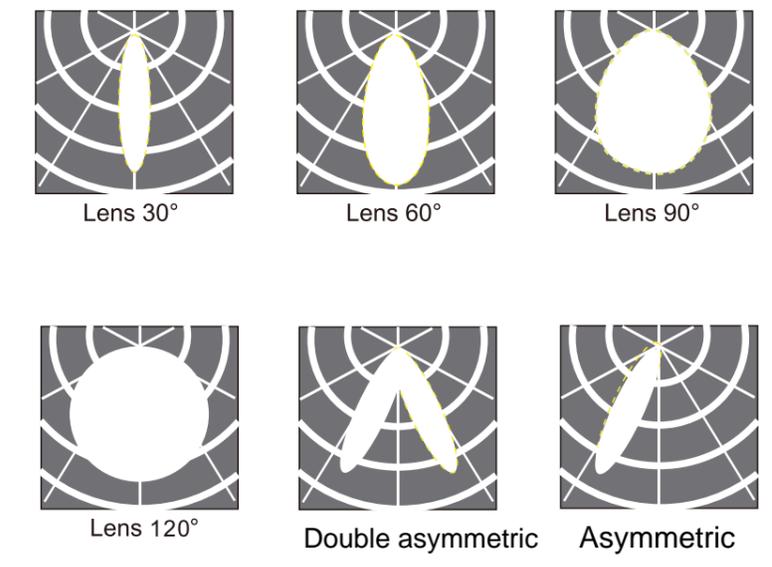
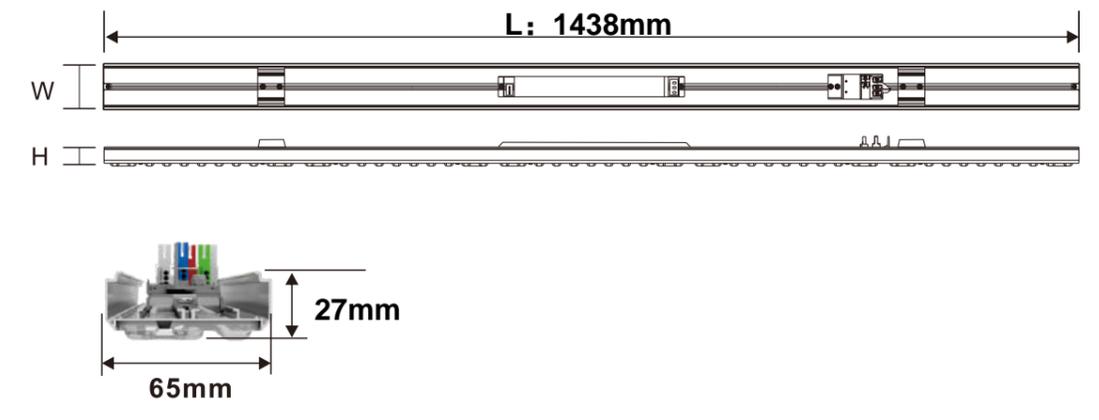


Wattage	30W-75W (on/off) 15W-75W (DALI) 25W-90W (DALI)
PF	>0.98
CCT	3000K/3500K/4000K/5000/6000K
Lumen efficiency	160lm/w
Beam angle	30°/60°/90°/120°/Double asymmetric/Asymmetric 120° PC diffuser
SDCM	<3
Operating efficiency	1
CRI	>80Ra
Lifespan	L80B10: 88000H
Photobiological class	Group 0 - no risk
Color	RAL9016 Traffic white
Input voltage AC/DC	198-264Vac/176-280Vdc
Driver	BOKE
Frequency	50Hz/60Hz
EL	support
IP rating	IP20
Protection Class	I
IK rating	IK10
Glow wire strength	650 °C
Dimension	1438X65X23mm

Trunk Rail:



light Module:



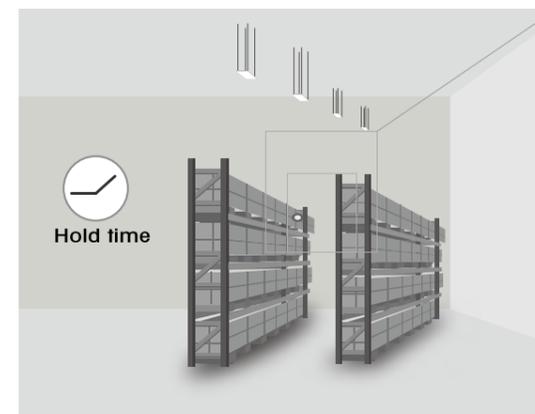
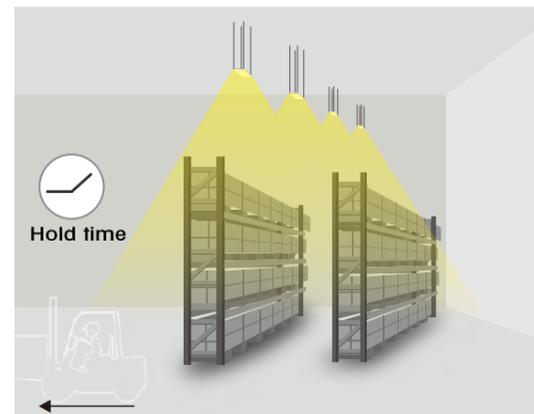
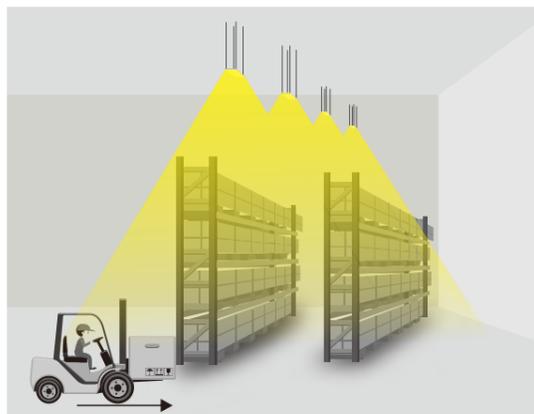
Why Smart warehouse lighting solution?

The Smart Warehouse lighting solution provide a simple, effective method of lighting control which minimises energy consumption whilst retaining high levels of user comfort. A discrete sensor integral to the luminaire monitors ambient light and presence controlling output to the correct level, and ensuring that the area is only illuminated when occupied. Lighting can account for a high percentage of energy consumed within a building. Savings by the installation of lighting solution with sensor often exceed 70%



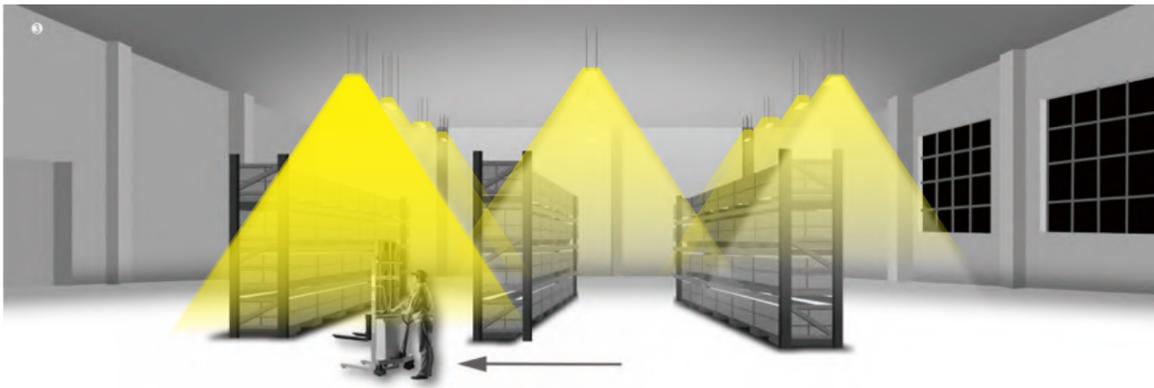
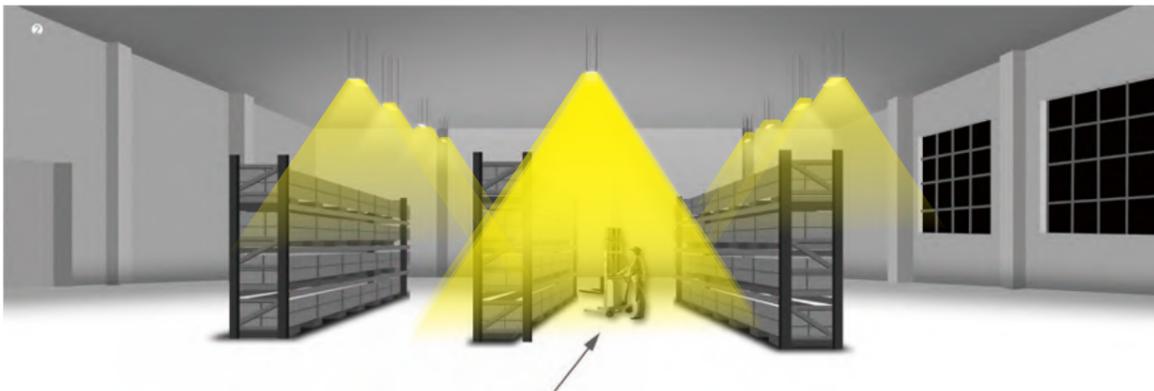
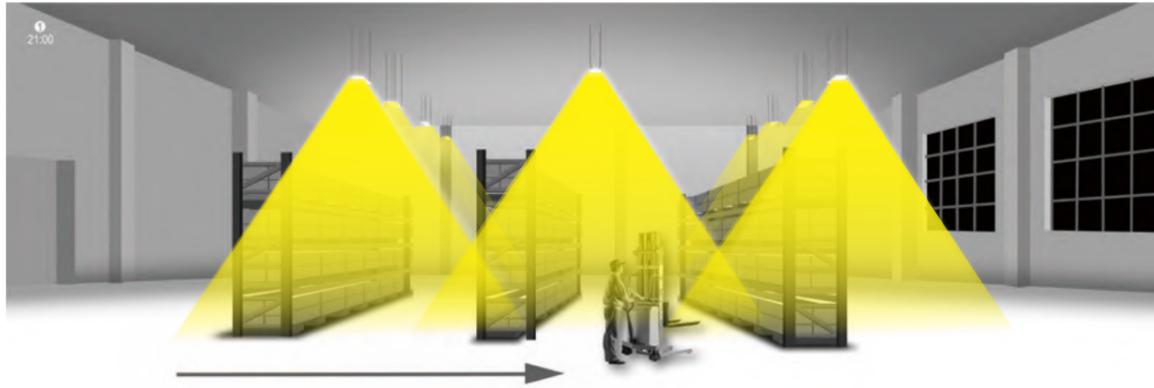
Step dimming PIR sensor (no windows)

No windows , worker only stay here when need to load goods .

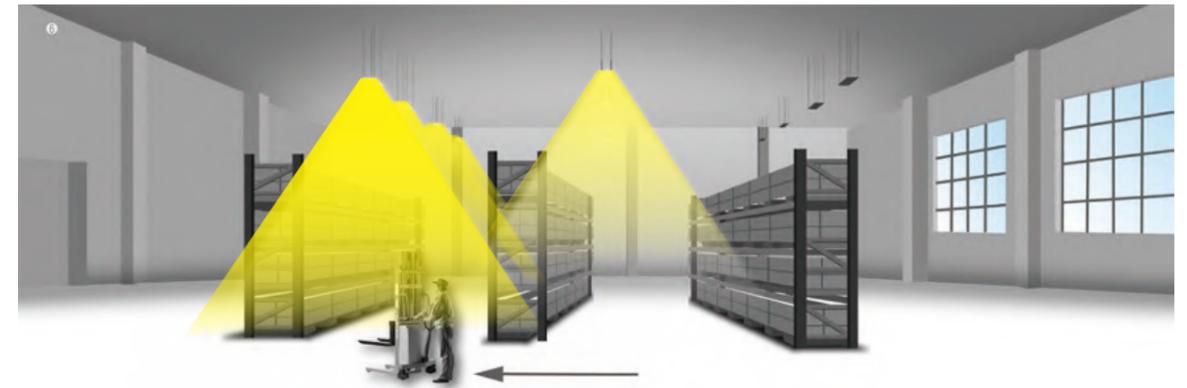
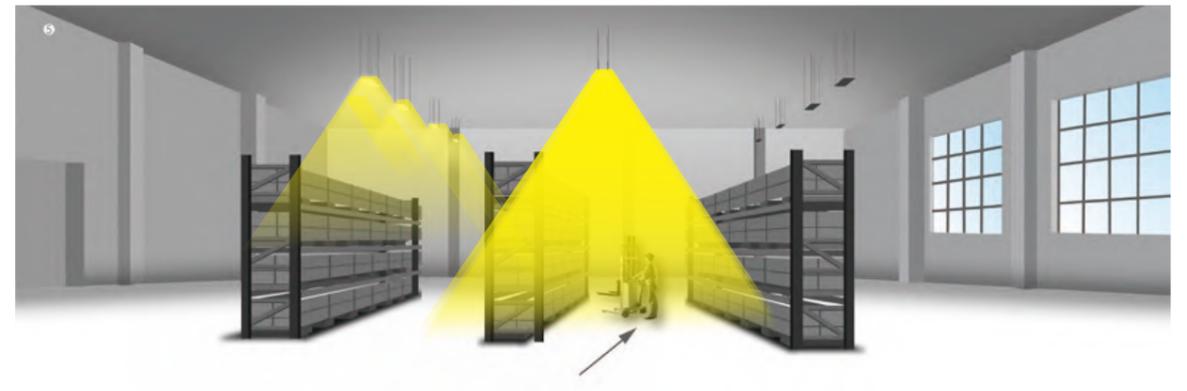
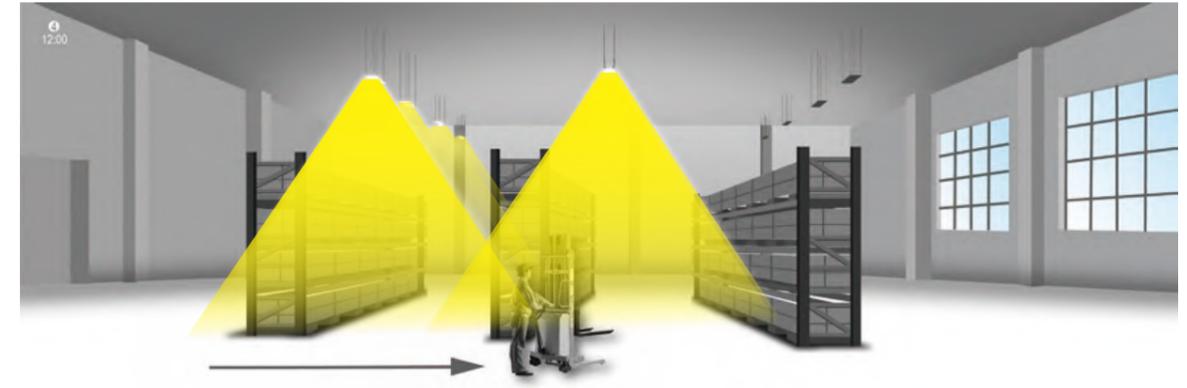


Step dimming PRI sensor+ Daylight harvesting (with windows)

Night



Daytime



Emergency module



Built-in battery

High temperature resistance battery,

LED Driver

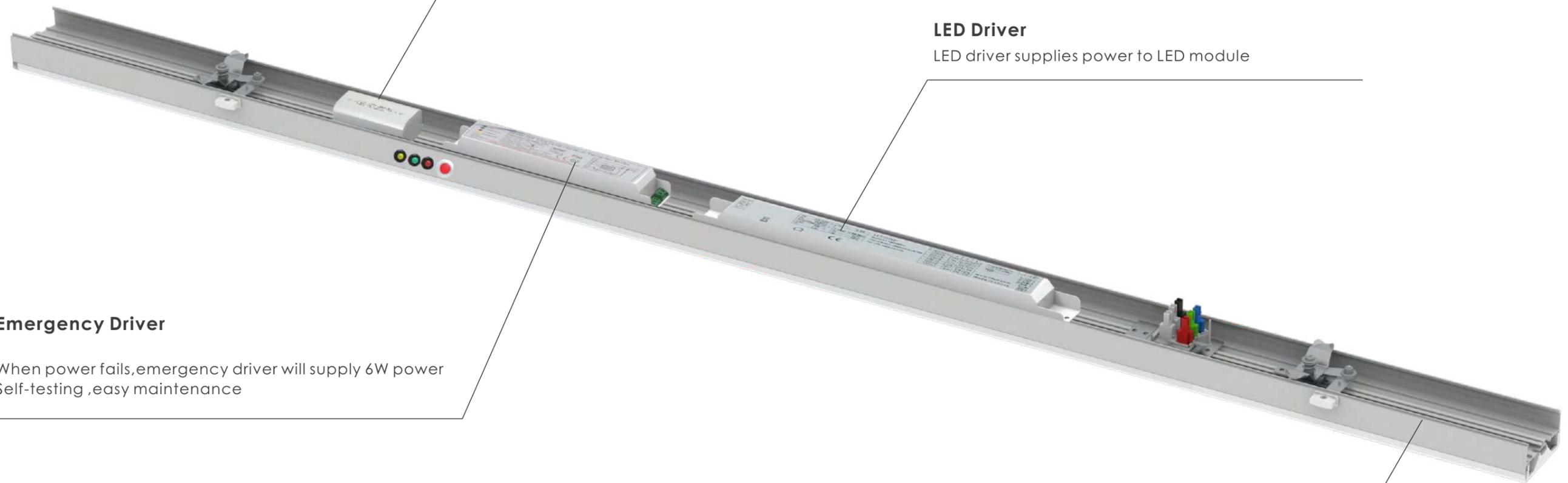
LED driver supplies power to LED module

Emergency Driver

When power fails, emergency driver will supply 6W power
Self-testing ,easy maintenance

Based on regular luminaire module

Add battery and emergency driver in regular luminaire module.
No limitation on the wattage of luminaire module.



Buit-in Battery Emergency

Buit-in Battery Supply

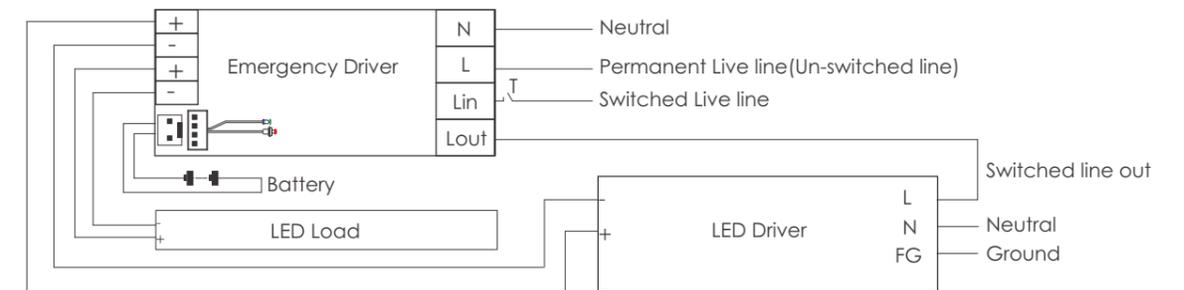


Buit-in Battery + Emergency Drivere (+ LED Driver)

Trunking Rail :	5 Wires , 7 wires
Emergency Brightness:	6W (900lm)
Emergency Durable:	>3hrs
Emergency Battery:	Lithium battery/LiFePO4 battery
0-100% Charge time:	24 hrs
Emergency Driver Lifespan:	50,000hrs
Emergency Driver Warranty:	3 years
Battery Warranty:	1 years (4 years design life)
Certification:	CE , CB , ENEC

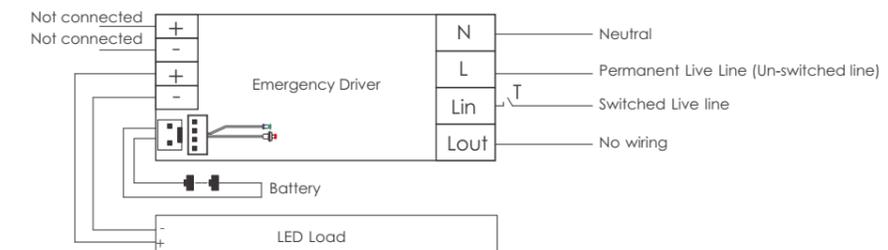
Mode 1 : Connection with LED driver

- Normal status: permanent live line is on.
Luminaire module runs on LED driver and provide full rated wattage. Power is from main supply. Battery is on charge.
- Emergency status: permanent live line is off.
Luminaire module runs on emergency driver with emergency wattage. Power is from built-in battery.



Mode 2 : Connection without LED driver

- Normal status: permanent live line is on.
Luminaire module runs on emergency driver and standby with no lighting. Power is from main supply. Battery is on charge.
- Emergency status: permanent live line is off.
Luminaire module runs on emergency driver with emergency wattage. Power is form built-in battery.



Built-in Battery + Central Power Supply

Built-in Battery Supply



Build-in Battery + Emergency Driver(+LED Driver)

Trunking Rail:	7 wires
Emergency Brightness:	6w(900lm)
Emergency Durable:	>3hrs
Emergency Battery:	Lithium battery/LiFePO4 battery
0-100% charge time:	24 hrs
Emergency Driver Lifespan:	50,000 hrs
Emergency Driver Warranty:	3 years
Battery Warranty:	1 years (4 years design life)
Certification:	CE, CB , ENEC

Mode: Use terminals to choose channel from UPS/EPS

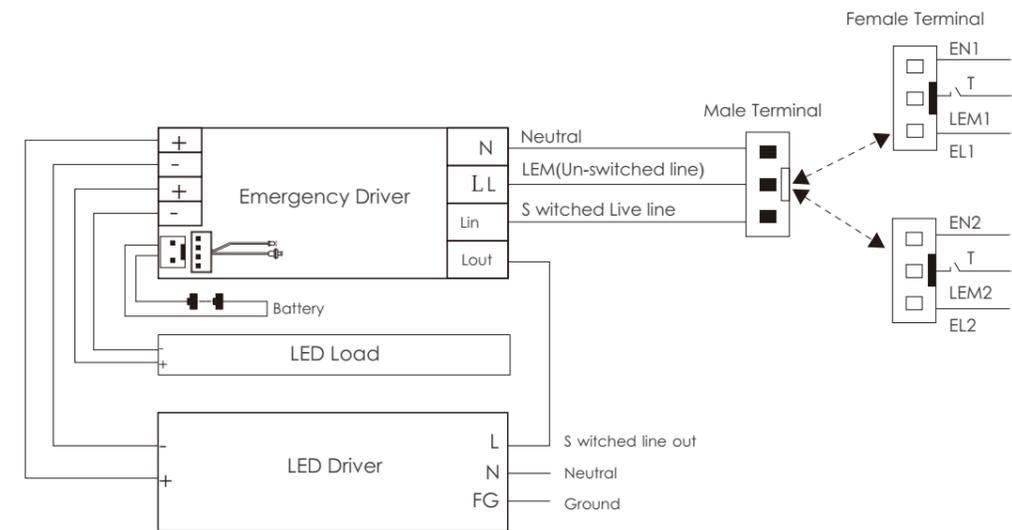
- Normal status: permanent live line is on.
Luminaire module runs on LED driver and provide full rated wattage. Power is from UPS / EPS. Battery is on charge.
- Emergency status: permanent live line is off.
Luminaire module runs on emergency driver with emergency wattage. Power is from built-in battery.
- Internal terminals
UPS/ EPS usually has two channels: EL1 /EN1 and EL2/EN2.
We provide three groups of instant terminals inside of module. Customer can decide what the channel they would like to connect to each module.

External Central Power Supply



Build-in Battery + Emergency Driver(+LED Driver)

Trunking Rail:	7 wires
Emergency Brightness:	Full rated lumen output
Emergency Durable:	according to UPD/EPS
Power supply:	UPS/EPS of building
Channel:	UPS/EPS usually provides two channels, which are E1 / EN 1 and E2 / EN2



Central Power Supply

External Central Power Supply

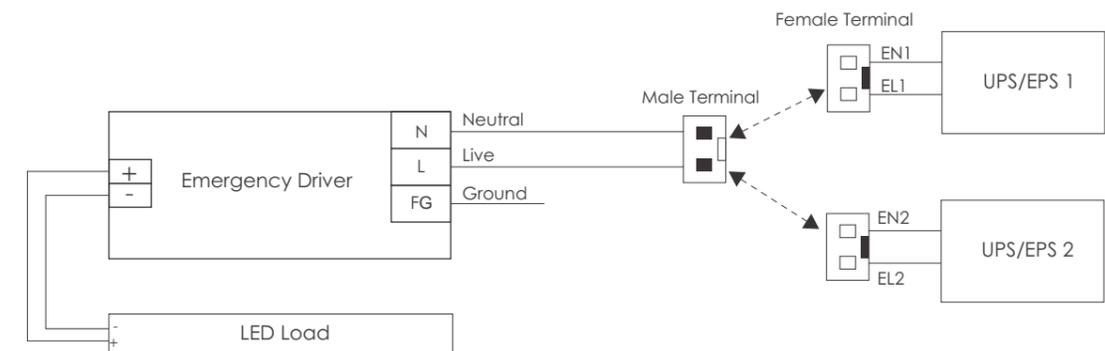
UPS/ EPS(Unstoppable/Emergency power Supply)



- Trunking Rail: 11 wires
- Emergency Brghtness: Full rated lumen output
- Emergency Durable: according to UPS/EPS
- Power supply: UPS/EPS of building usually
- Channel: UPS/EPS usually provides two channels which are EL 1/ En1 and EL2/EN2.

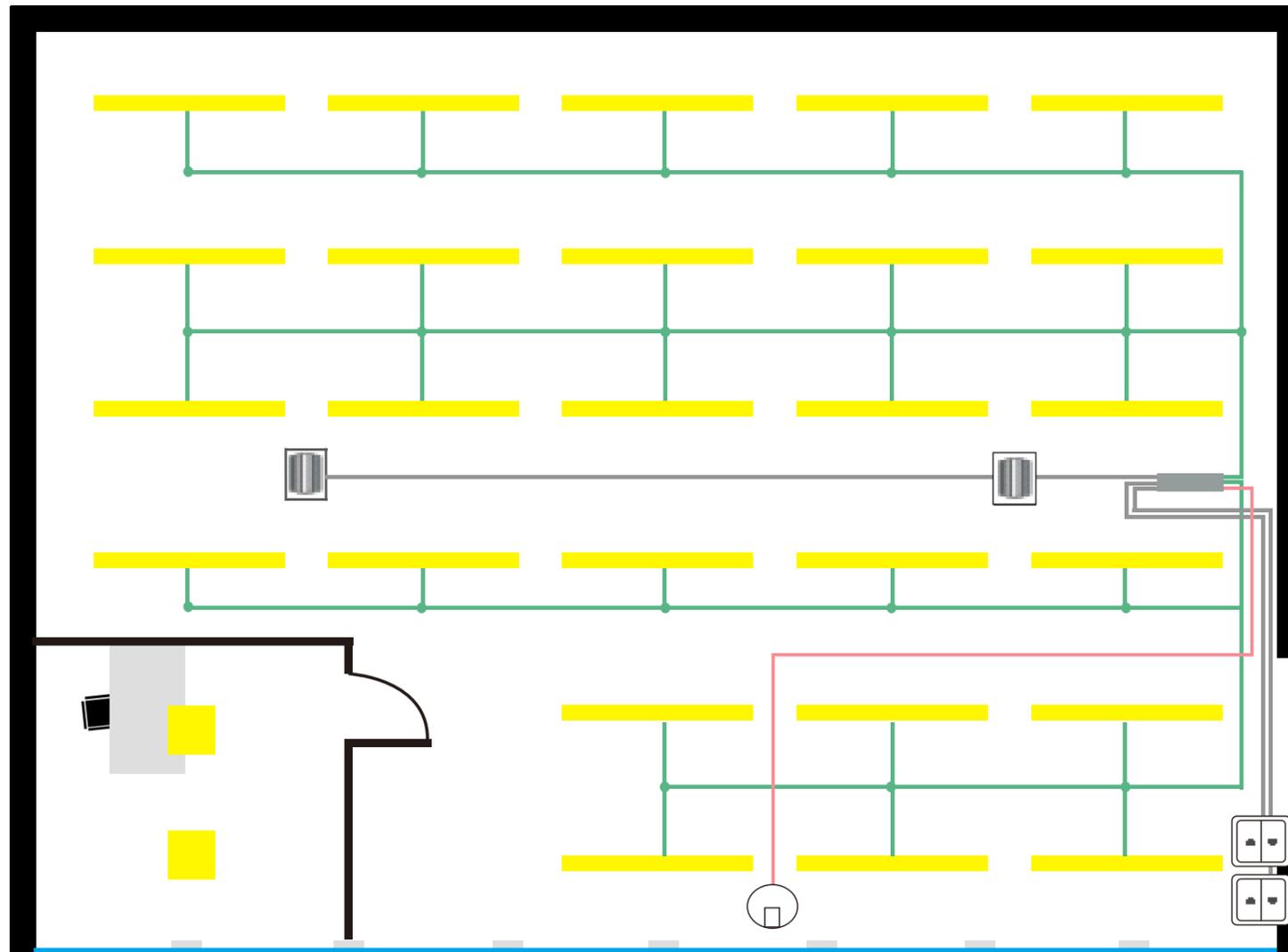
Mode: Use terminals to choose channel from UPS/EPS

- All status:
Luminaire module runs on LED driver and provide full rated wattage. Power is from is from UPS/EPS.
- Internal terminals
UPS/EPS usually has two channels: EL1 / EN1 and EL2/EN2.
We provide three groups of instant terminals inside of module. Customer can decide what the channel they would like to connect to each module.



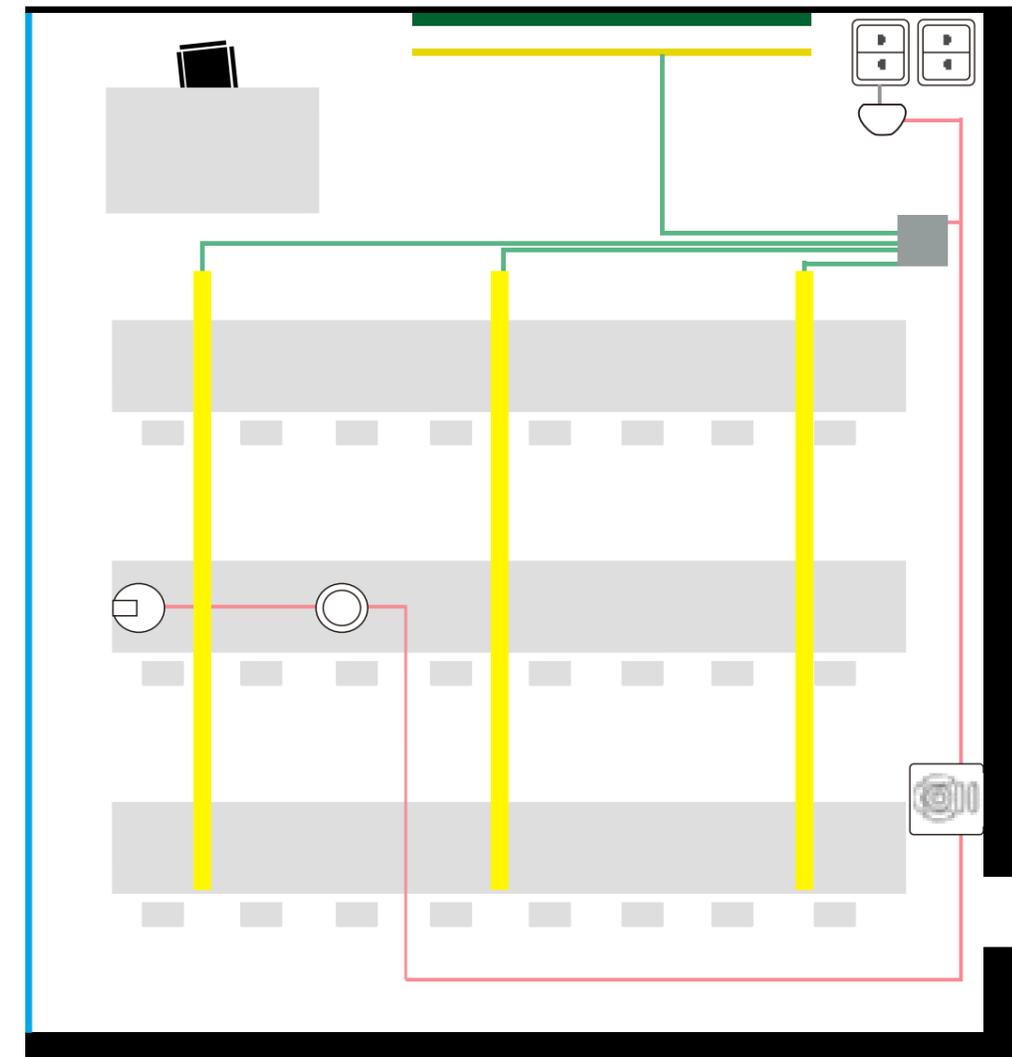
An Instance of Application

Warehouse/factory/Logistics - Controlled by DALI



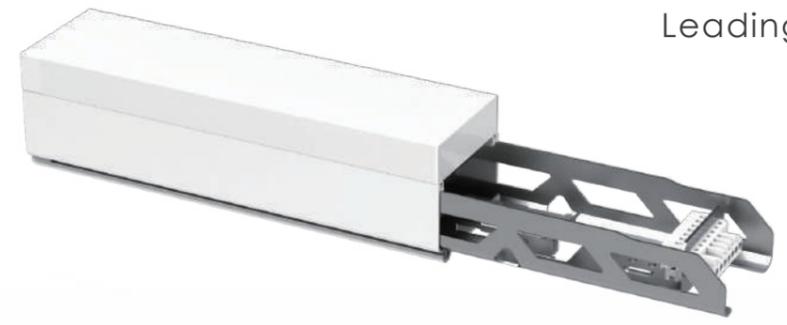
-  Daylight harvesting sensor
-  Microwave presence sensor
-  DaLi dimming switch
-  DaLi lighting control module

Stores/Education - Controlled by DALI

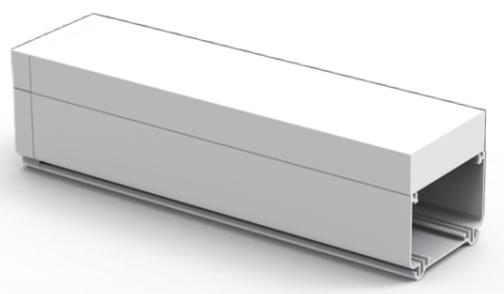


-  PIR motion sensor
-  Daylight harvesting sensor
-  DaLi dimming switch
-  DaLi lighting control module

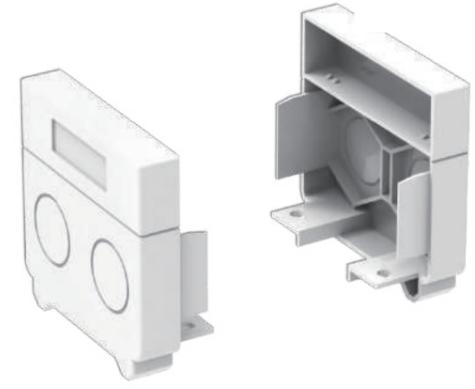
Accessory



Leading trunk



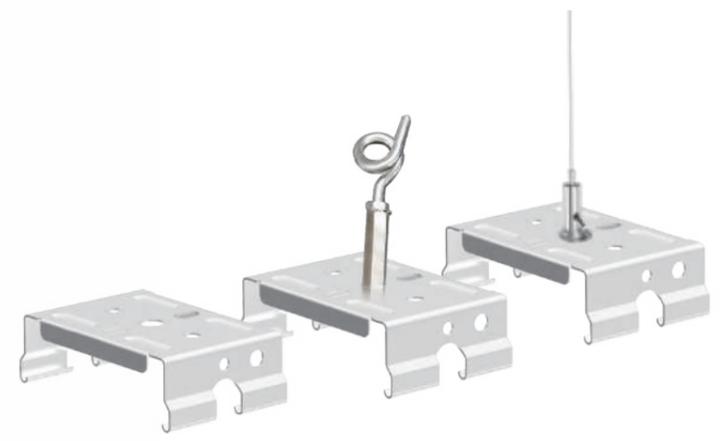
Endcap



Endcap



Module with build in track rail



Blank Unit



Blank unit ready for sensor