LI-TIAN LIGHTING

Design guide

LT-GK-006 Series

Wireless lighting control solutions from Litian for industrial applications.

Lighting the way
to industrial energy savings

Today's industrial facilities are tasked with improving productivity and efficiency while reducing costs. At the same time, the lighting required to facilitate the site's continuous operation can account for a significant portion of overall operating expenses. The combination of SpaceWise Technology with energy efficient LED fixture can help you reduce these operating expenses by delivering up to **75% energy***.

Litian technology adds integrated occupancy and daylight harvesting sensors to each LED luminaire. This allows industrial facilities to use light only where and when it's needed, while still providing the uniform.

Illumination that occupants need to efficiently complete tasks while maintaining a sense of security. The system is configured wirelessly, using a remote control or APP, with minimum installer input compared to networked solutions.
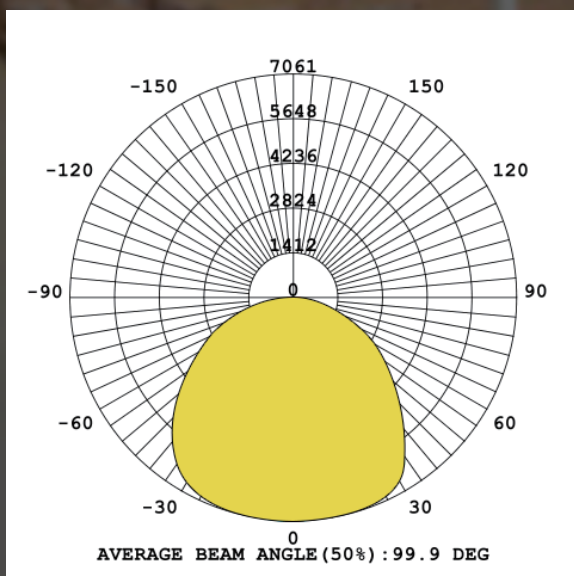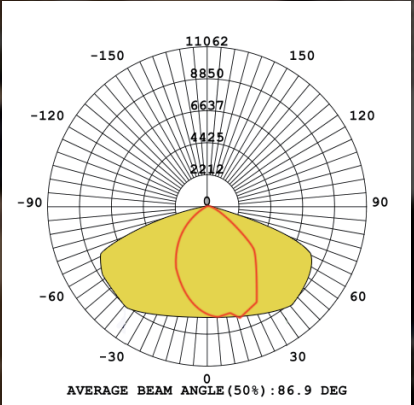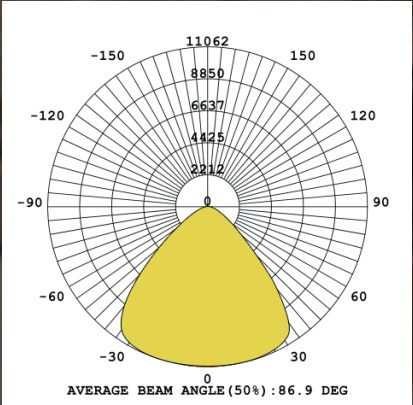
Milky frosted PC lens

120 lm/w

DLC QPL LISTED ™

ETL LISTED C US CM
Intertek
5011224

High-transmittance PC lens

130 lm/w

AVERAGE BEAM ANGLE(50%):99.9 DEG

Optical lens

140 lm/w

AVERAGE BEAM ANGLE(50%):64.7 DEG
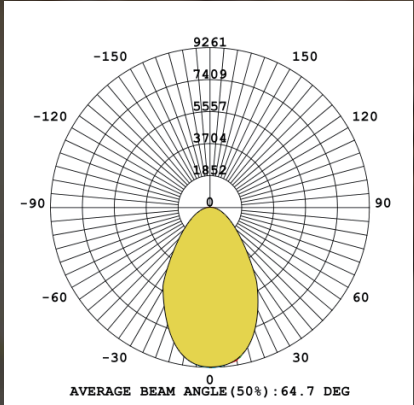
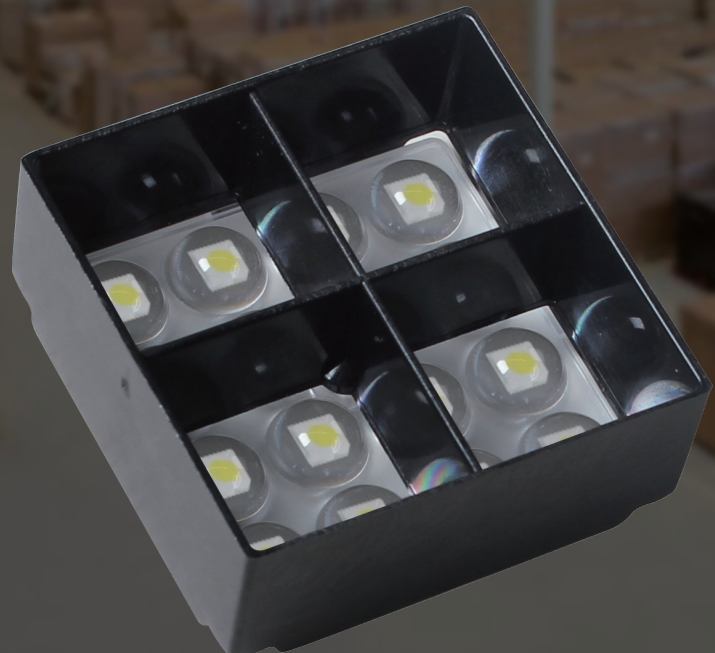AVERAGE BEAM ANGLE(50%):86.9 DEG

AVERAGE BEAM ANGLE(50%):86.9 DEG

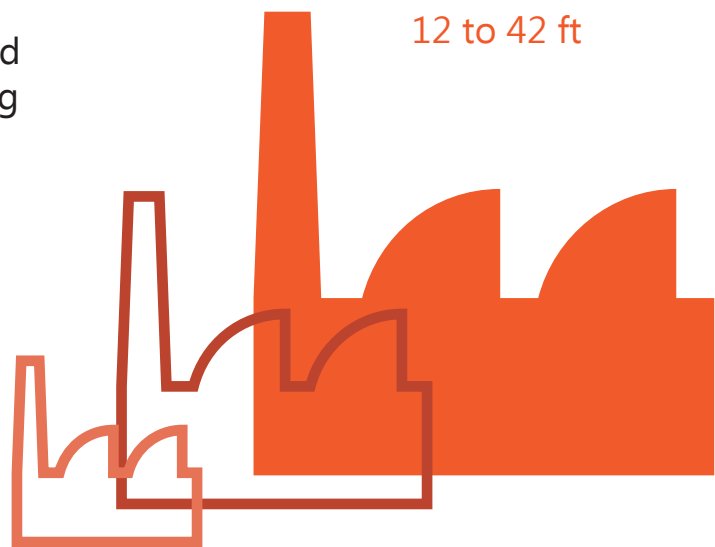**Anti-glare lens**

90 lm/w

UGR < 13

Confidence
where
it counts

LED luminaires are suitable for retrofit projects and new construction with ceilings from 12 to 42 feet high, and are specified as one convenient package.

Up to 50 luminaires may be wirelessly grouped for flexibility in a wide variety of industrial spaces without the time and expense associated with altering lighting circuits or using additional wiring.

12 to 42 ft

In operation, the luminaires provide light where and when it's needed because of these highly sensitive occupancy sensors that speak "virtually" through the system. This helps to provide heightened energy savings without compromising staff productivity or their sense of security.
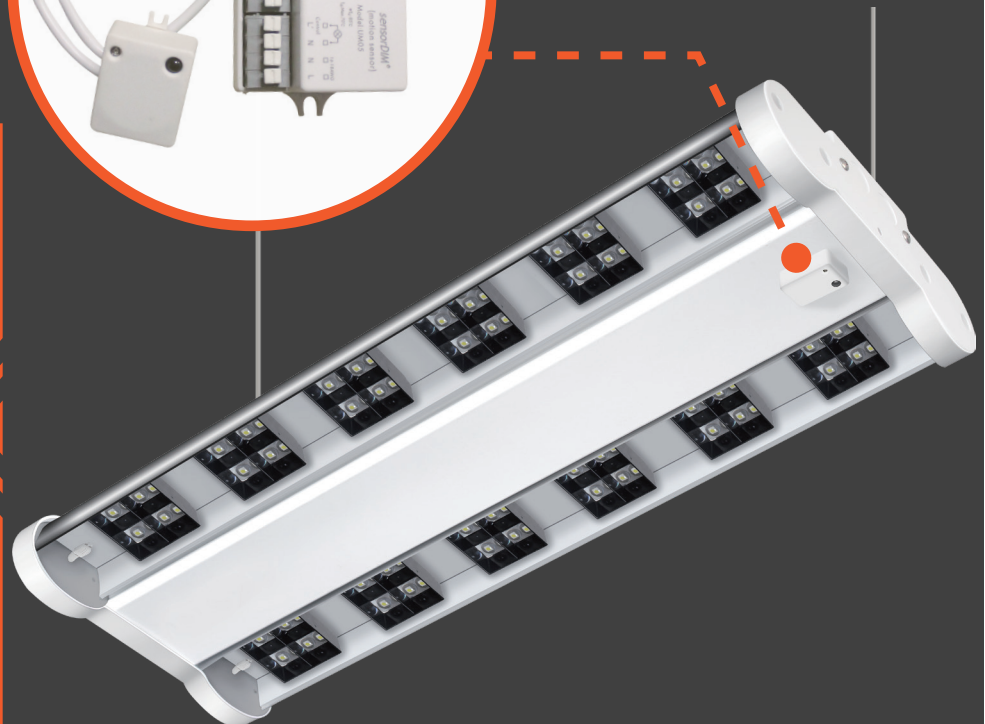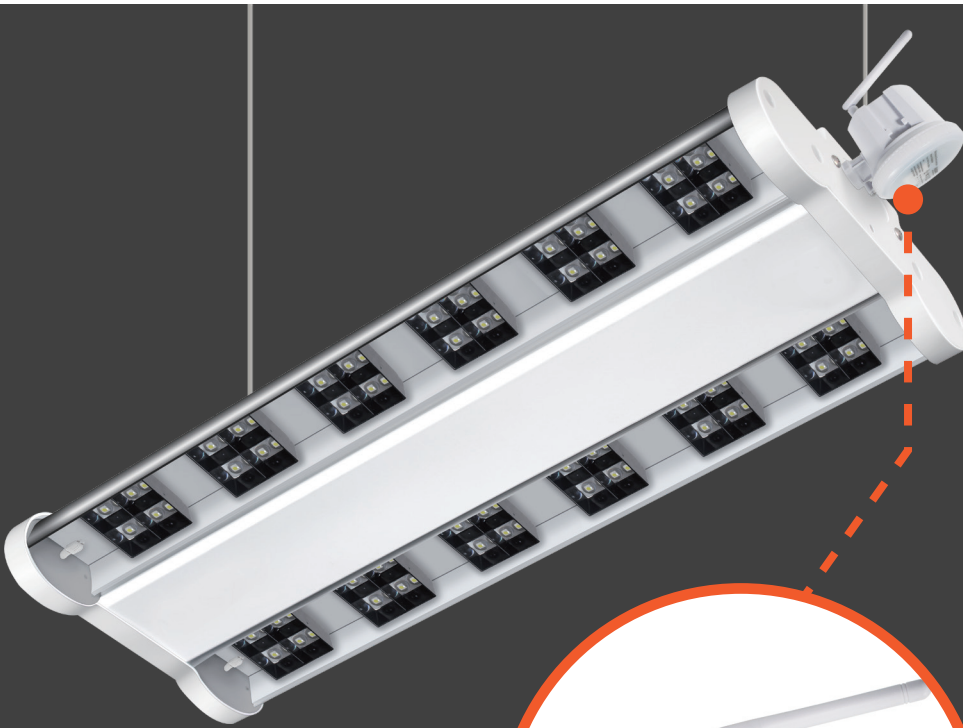
Motion sensing A

Remote control setting

App — **Mobile App setting**

Wireless networking

More user-friendly settings

Motion sensing B

Remote control setting

Higher cost performance

Luminaires may be operated as a single group or divided into multiple groups to suit different space needs and activities.
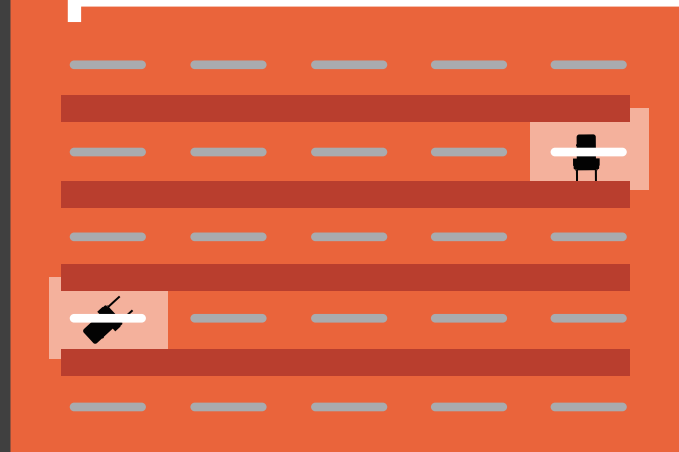
Within the group, as each occupant arrives at their workstation, luminaires in the immediate area brighten up to full illumination. While unoccupied workstations stay lit at a background light level.

For optimal efficiency, it is recommended to create large luminaire groups to maintain uniform light across the area or spanning aisles in a warehouse.
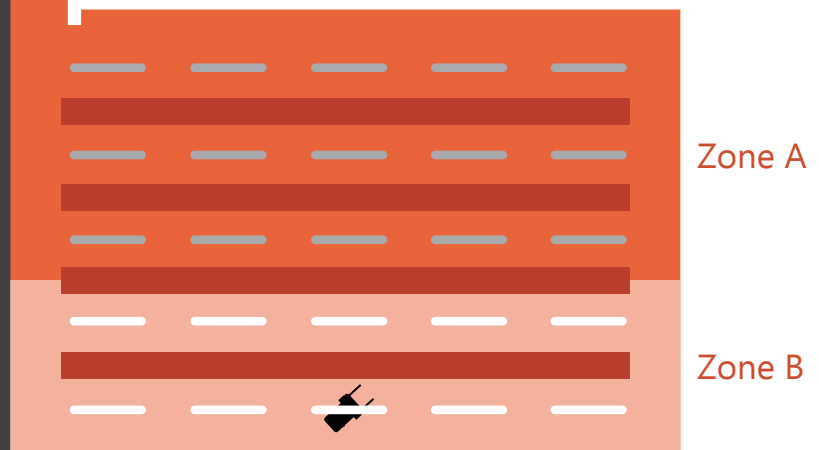
Additionally, luminaire groups may incorporate zones, where all luminaires in the defined zone behave identically on detecting motion.
The lighting group turns off only when the entire group has been unoccupied for a specified time.
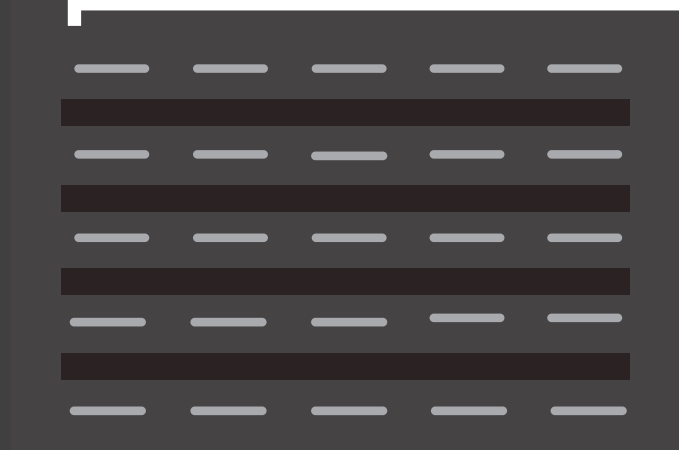
Single group

Single group with multiple zones
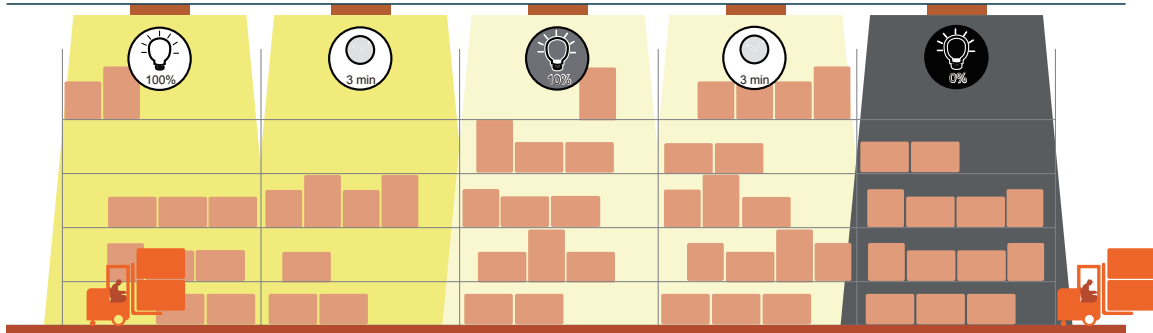
Zone A

Zone B

Unoccupied group

Simple touch and go

Litian technology is quickly and easily commissioned by the installer with a **handheld remote control** or **mobile phone** so that facility operations remain uninterrupted and installation labor costs are minimized.

mode 6:
Warehouse

- Luminaires in the group that detect motion brighten to 100%, and dim to a 10% background level three minutes after motion ceases.
- Luminaires in the group that do not detect motion remain dimmed at a 10% background level.
- The entire luminaire group will turn off if no further motion is detected for an additional three minutes.

Suitable for warehouse applications that have low occupancy movements and where, on a given day, most activities are concentrated to a limited area.
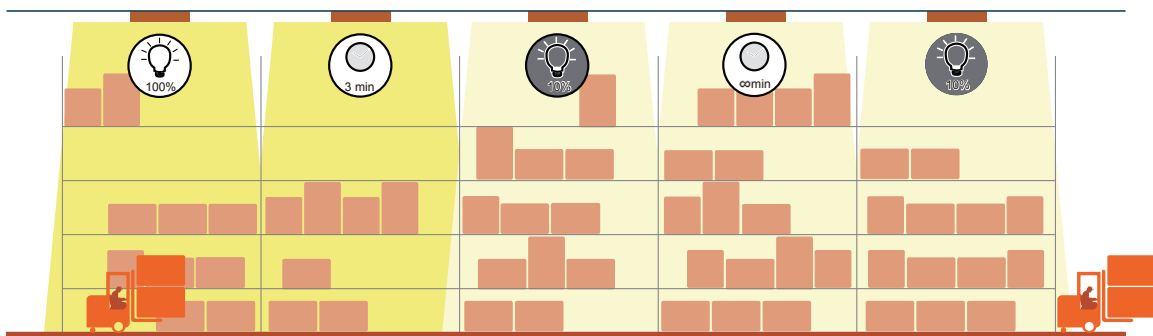
mode 8: Comfort
Warehouse

- Luminaires in the group that detect motion brighten to 100%, and dim to a 10% background level three minutes after motion ceases.
- Luminaires in the group that do not detect motion remain dimmed at a 10% background level.
- The entire luminaire group remains at a 10% background level until motion is detected again.
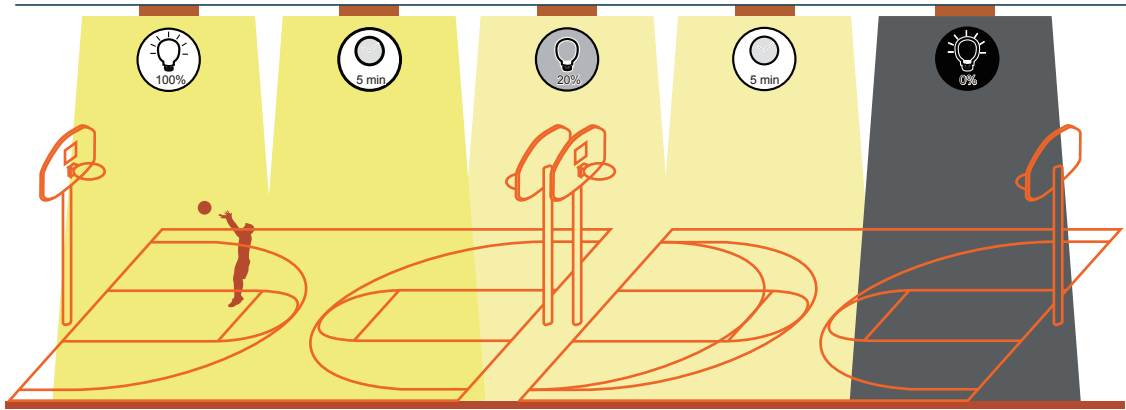

This mode is relevant for warehouse environments that are constantly occupied throughout the day or for spaces that require lights to stay at a dimmed level instead of shutting off when unoccupied.
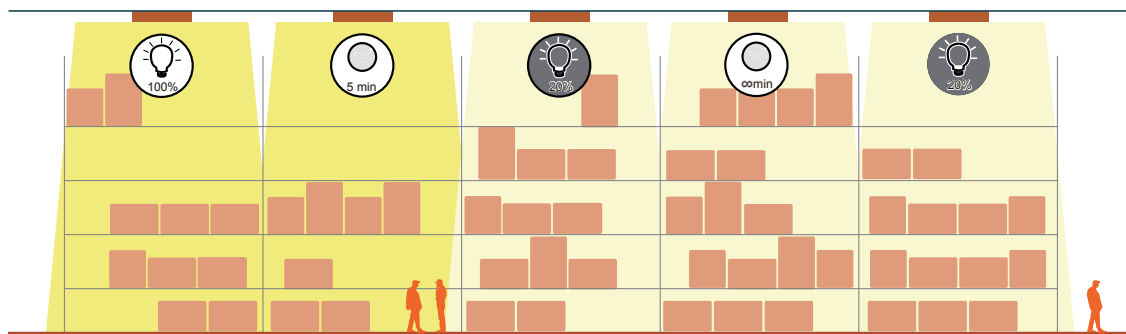
mode 7:
Gymnasium

- Luminaires, or entire defined zones, that detect motion brighten to 100%, and dim to a 20% background level five minutes after motion ceases.
- Luminaires, or entire defined zones, that do not detect motion remain dimmed at a 20% background level.
- The entire luminaire group will turn off if no further motion is detected for an additional five minutes.

Usually, gymnasiums have multiple courts next to each other and not all the courts tend to be occupied at the same time. This energy waste can be minimized with the help of SpaceWise Technology.

mode 9: Comfort
Manufacturing

- Luminaires that detect motion brighten to 100%, and dim to a 20% background level five minutes after motion ceases.
- Luminaires that do not detect motion remain dimmed at a 20% background level.
- The entire luminaire group remains at a 20% background level until motion is detected again

Traditionally, some spaces in a manufacturing facility are configured to stay on all the time, wasting a significant amount of energy. It is possible to reduce this energy waste by dimming the lights to a background level during unoccupied periods.

Ordering information

Example: LT-GK-006-100W-40K-60°-UNV-MS-A										Options	
Luminaire	Number of LEDs (CREE 3030)	power	Lumens	Color Temperature	Mounting	Distribution	Emergency	Voltage	Dimming controls	Motion sensing	Finish
I/CI Industrial / commercial lighting	144 LEDs 192 LEDs 288 LEDs 336 LEDs 448 LEDs	100W 140W 200W 240W 300W	90 lm/w (Anti-glare lens) 120 lm/w (Milky frosted PC lens) 130 lm/w (High-transmittance PC lens) 140 lm/w (Optical lens)	WW-30K Warm White 3000K (70 CRI) NW-40K Neutral White 4000K (70 CRI) CW-50K Cool White 5000K (70 CRI)	PM Pendant Mounting CM Cable Mounting	TYPE 60^0 TYPE 90^0 TYPE III $145^0 \times 80^0$ MFPC Milky frosted PC lens HTPC High-transmittance PC lens AG Anti-glare lens	EBP Emergency Battery pack (90min,25w)	UNV Universal 120-277V HVU Universal 347-480V	DD 0-10V Dimming (Standard configuration)	NONE No Motion sensing MS-A Support remote control, mobile APP, fixture group control MS-B Only supports remote control, Separate control, Creating a light group is not supported	WH White

Take the next step

See how Litian LED luminaires can provide a complete solution for your area lighting needs. Visit www.ilitianled.com more information.

Sizes

243

75.4

625

3.6kg

390

75.3

625

5.1kg

390

75.3

825

7.4kg