# GreenWarehouse – wireless lighting system, giving you control of energy savings

## Maxos LED GreenWarehouse

This dedicated system makes it easy for warehouse developers and facility managers to achieve maximum energy savings. It seamlessly integrates state-of-the-art LED lighting with an easy-to-use and reliable networked control solution. When the situation on the work floor changes, settings such as dimming levels and timing can be changed wirelessly by the end-users themselves. Luminaires can be combined in groups across the layout, and re-zoning them does not require a hardware change, thus minimizing commissioning costs. The system delivers savings over and above the actual efficiency of the LEDs and is future-proof.Easy to understand, easy to design-in, and easy to use, the GreenWarehouse is simplicity itself.

### Benefits
• Optimal operating costs for a low investment
• One system; works across other Philips product platforms – GentleSpace gen2, Maxos LED and Pacific LED
• Future-proof system: wireless adjustment of lighting settings and fast re-zoning if use of space changes

# Maxos LED GreenWarehouse

## Features

- Different lighting levels and timings can be set per sensor, group and network of luminaires
- No compromise on operators' safety, well-being and productivity
- Wireless re-zoning by the end-user
- Advanced sensor technology for effective presence detection, even from a great height
- The system is suitable for both new builds and retrofit installations
- Dedicated warehouse kits; via bundled orders

## Application

- Storage
- Distribution centers
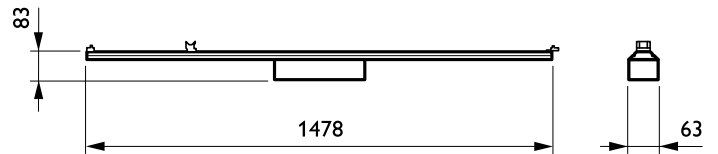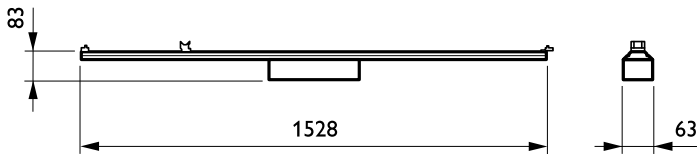- Cross-docking facilities

## Specifications

| Type | LL850X (based on Maxos LED 4MX850) |
| --- | --- |
| | - Long version (12 m): 4 units Maxos, 3 blind covers, 1 sensor |
| | - Short version (9 m): 3 units Maxos, 2 blind covers, 1 sensor |
| | - For T5 and TLD sized trunking rail |
| | LL400X (based on Maxos LED 4MX400 for TTX400 rail) |
| | - Long version (12 m): 4 units Maxos, 3 blind covers, 1 sensor |
| | - Short version (9 m): 3 units Maxos, 2 blind covers, 1 sensor |
| | - For T5 and TLD sized trunking rail |
| | LL883X (based on Maxos LED 4MX883) |
| | - Long version (12 m): 4 units Maxos (of which 1 with 3 hours 300 lumen Emergency lighting), 3 blind covers, 1 sensor |
| | - Short version (9 m): 3 units Maxos (of which 1 with 3 hrs 300 lumen Emergency lighting), 2 blind covers, 1 sensor |
| | - For T5 and TLD sized trunking rail |
| | LL433X (based on Maxos LED 4MX433 for TTX400 rail) |
| | - Long version (12 m): 4 units Maxos (of which 1 with 3 hours 300 lumen Emergency lighting), 3 blind covers, 1 sensor |
| | - Short version (9 m): 3 units Maxos (of which 1 with 3 hrs 300 lumen Emergency lighting), 2 blind covers, 1 sensor |
| | - For T5 and TLD sized trunking rail |
| Light source | Philips Fortimo LEDline 3R |
| Power (+/-10%) | 4 units: 218 W |
| | 3 units: 163 W |
| Luminous flux | Long version: 26,400 lm |
| | Short version: 19,800 lm |

| | |
| --- | --- |
| Correlated Color Temperature | 4000 K |
| Color Rendering Index | > 80 |
| Median useful life L80B50 | 50,000 hours |
| Median useful life L90B50 | 25,000 hours |
| Driver failure rate | 1% per 5000 hours |
| Average ambient temperature | +25 ºC |
| Operating temperature range | -20 to +35 ºC |
| Driver | Built-in |
| Mains voltage | 230 or 240 V / 50-60 Hz |
| Dimming | Integrated dimmer |
| Controls system input | DALI |
| Options | Emergency lighting: 3 hours (EL3), 300 lm |
| Material | Housing: steel |
| | Optical cover: PMMA |
| Color | White (WH) |
| Optic | Narrow beam (NB) |
| Installation | Reutlinger or surface mounting brackets |
| | New or Retrofit to Maxos/TTX400 installations |
| | Through-wiring possible |
| Remarks | Maxos LED GreenWarehouse can only be ordered as a system via kits |
| | Remote control and guide come with each shipment |

# Maxos LED GreenWarehouse

## Versions

| x | Maxos LED GreenWarehouse LL850X/LL883X trunking luminaire kit, 12 m |
| 4x | |
| 3x | |

| x | Maxos LED GreenWarehouse LL400X/LL433X trunking luminaire kit, 12 m |
| 4x | |
| 3x | |

| x | Maxos LED GreenWarehouse LL850X/LL883X trunking luminaire kit, 9 m |
| 3x | |
| 2x | |

| x | Maxos LED GreenWarehouse LL400X/LL433X trunking luminaire kit, 9 m |
| 3x | |
| 2x | |

## Dimensional drawing

83 · 1528 · 63

83 · 1478 · 63

**Maxos LED Warehouse system LL850X**

**Maxos LED Warehouse system LL850X**

83 · 1528 · 63

83 · 1478 · 63
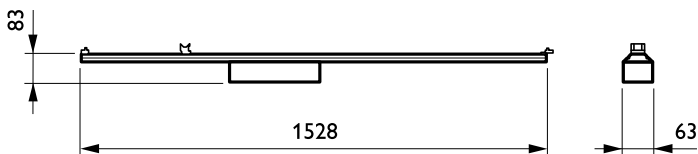
**Maxos LED Warehouse system LL400X**

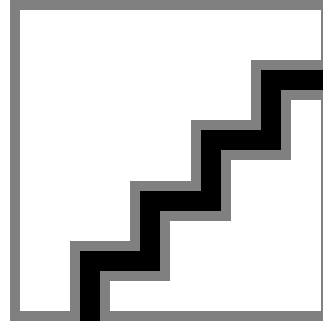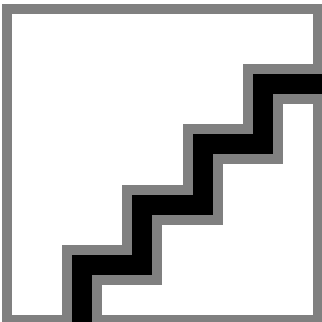**Maxos LED Warehouse system LL400X**
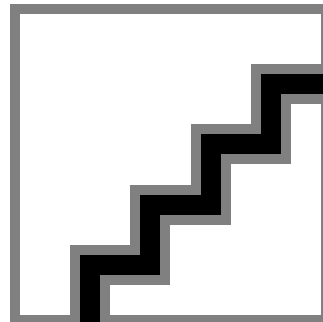
## Product details
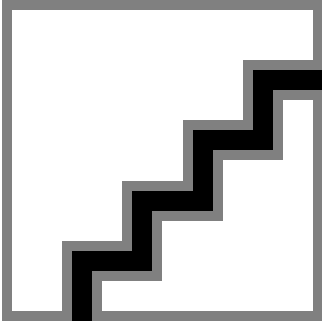


DALI cabling with C2R connectors for signal from Actilume Wireless to luminaire
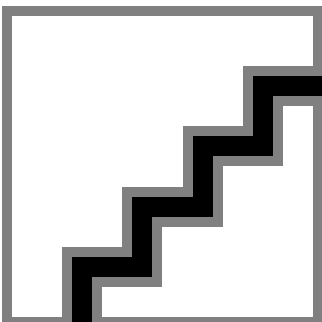


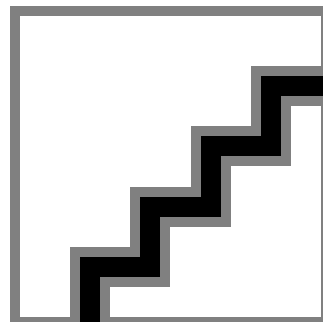High-bay sensor with Actilume Wireless DALI controller



Maxos LED GreenWarehouse gear tray with internal DALI cabling



High-bay sensor with Actilume Wireless DALI controller



DALI cabling with C2R connectors for signal from Actilume Wireless to luminaire



Maxos LED GreenWarehouse gear tray with internal DALI cabling

# Maxos LED GreenWarehouse

## Application Conditions

| | |
|---|---|
| Ambient temperature range | -15 to +35 °C |
| Average ambient temperature | 25 °C |
| Maximum dim level | 1% |
| Suitable for random switching | Yes (relates to presence/ movement detection and daylight harvesting) |

## Approval and Application

| | |
|---|---|
| Mech. impact protection code | IK02 |
| Ingress protection code | IP20 |

## Controls and Dimming

| | |
|---|---|
| Dimmable | Yes |

## Operating and Electrical

| | |
|---|---|
| Input Voltage | 220 to 240 |

## General Information

| | |
|---|---|
| CE mark | CE mark |
| Protection class IEC | Safety class I (I) |
| Optical cover/lens type | PM |
| Driver included | Yes |
| ENEC mark | ENEC mark |
| Glow-wire test | 650/5 |
| Lamp family code | LED66S |
| Embedded control | ACW |
| Light source replaceable | No |
| Optic type | NB |

## Initial Performance (IEC Compliant)

| | |
|---|---|
| Initial LED luminaire efficacy | 121 |

## Over Time Performance (IEC Compliant)

| | |
|---|---|
| Driver failure rate at 5000 h | 1 |
| Median useful life L80B50 | 50000 |
| Median useful life L90B50 | 25000 |

## General Information

| order code | Flammability mark | Product Family Code |
|---|---|---|
| 24977200 | - | LL850X |
| 24978900 | - | LL850X |
| 25600800 | - | LL883X |
| 25601500 | - | LL883X |
| 24979600 | D | LL400X |
| 24980200 | D | LL400X |
| 25602200 | D | LL433X |
| 25603900 | D | LL433X |
| 24981900 | - | LL850X |
| 24982600 | - | LL850X |
| 25604600 | - | LL883X |
| 25605300 | - | LL883X |
| 24983300 | D | LL400X |
| 24984000 | D | LL400X |
| 25607700 | D | LL433X |

## Initial Performance (IEC Compliant)

| order code | Initial chromaticy | Init. Corr. Color Temperature | Initial luminous flux | Initial input power |
|---|---|---|---|---|
| 24977200 | (0.38, 0.38) SDCM ~LT~3 | 4000 K | 26400 | 218 |
| 24978900 | (0.38, 0.38) SDCM ~LT~3 | 4000 K | 26400 | 218 |
| 25600800 | (0.38, 0.38) SDCM ~LT~3 | 4000 K | 26400 | 218 |
| 25601500 | (0.38, 0.38) SDCM ~LT~3 | 4000 K | 26400 | 218 |
| 24979600 | (0.38, 0.38) SDCM ~LT~3.5 | 3000 K | 26400 | 218 |
| 24980200 | (0.38, 0.38) SDCM ~LT~3.5 | 4000 K | 26400 | 218 |
| 25602200 | (0.38, 0.38) SDCM ~LT~3.5 | 4000 K | 26400 | 218 |
| 25603900 | (0.38, 0.38) SDCM ~LT~3.5 | 4000 K | 26400 | 218 |

| order code | Initial chromaticy | Init. Corr. Color Temperature | Initial luminous flux | Initial input power |
|---|---|---|---|---|
| 24981900 | (0.38, 0.38) SDCM ~LT~3 | 4000 K | 19800 | - |
| 24982600 | (0.38, 0.38) SDCM ~LT~3 | 4000 K | 19800 | - |
| 25604600 | (0.38, 0.38) SDCM ~LT~3 | 4000 K | 19800 | - |
| 25605300 | (0.38, 0.38) SDCM ~LT~3 | 4000 K | 19800 | - |
| 24983300 | (0.38, 0.38) SDCM ~LT~3.5 | 4000 K | 19800 | - |
| 24984000 | (0.38, 0.38) SDCM ~LT~3.5 | 4000 K | 19800 | - |
| 25607700 | (0.38, 0.38) SDCM ~LT~3.5 | 4000 K | 19800 | - |

## Mechanical and Housing

| order code | Trunking length | | order code | Trunking length |
| --- | --- | --- | --- | --- |
| 24977200 | 498 | | 24981900 | 496 |
| 24978900 | 588 | | 24982600 | 586 |
| 25600800 | 498 | | 25604600 | 496 |
| 25601500 | 588 | | 25605300 | 586 |
| 24979600 | 498 | | 24983300 | 496 |
| 24980200 | 588 | | 24984000 | 586 |
| 25602200 | 498 | | 25607700 | 586 |
| 25603900 | 588 | | | |