



# GentleSpace Green Warehouse system

## BY471X GRN170S/840 HRO GC ACW SI

GentleSpace GreenWarehouse - LED GreenLine system flux 17000 lm - 840 neutral white - High-rack optic - Clear glass - ActiLume wireless - Silver

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.

### Product data

| General Information           |   |
|-------------------------------|---|
| Number of light sources       | 12 [ 12 pcs]                                  |
| Lamp family code              | GRN170S [ LED GreenLine system flux 17000 lm] |
| Beam angle of light source    | 114 °   |
| Light source colour           | 840 neutral white                             |
| Light source replaceable      | Yes   |
| Number of gear units          | 1 unit  |
| Driver/power unit/transformer | PSD [ Power supply unit with DALI interface]  |
| Driver included               | Yes   |

|                             |  |
|-----------------------------|--|
| Optic type                  | HRO [ High-rack optic]                 |
| Optical cover/lens type     | GC [ Clear glass]                      |
| Luminaire light beam spread | 16° x 47°                              |
| Embedded control            | ACW [ ActiLume wireless]               |
| Control interface           | -                                      |
| Connection                  | External connector                     |
| Cable                       | Cord 0.5 m with cable connector 3-pole |
| Protection class IEC        | Safety class I                         |
| Mounting                    | SMT [ Suspension set twin, triangle]   |
| Glow-wire test              | Temperature 650 °C, duration 5 s       |

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|                             |   |
|-----------------------------|---|
| Flammability mark           | D [ For mounting on easily flammable surfaces]  |
| CE mark                     | CE mark   |
| ENEC mark                   | ENEC mark   |
| Design award-winner marking | Design Award Winner 2014  |
| Warranty period             | 5 years   |
| Remarks                     | *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value. |
| Constant light output       | No  |
| Number of products on MCB   | 12  |
| RoHS mark                   | RoHS mark   |
| Product Family Code         | BY471X [ GentleSpace GreenWarehouse]  |
| Unified glare rating CEN    | Not applicable  |

## Operating and Electrical

|                        |                |
|------------------------|----------------|
| Input voltage          | 220 to 240 V   |
| Input frequency        | 50 to 60 Hz    |
| Control signal voltage | 0-16 V DC DALI |
| Inrush current         | 4.8 A          |
| Inrush time            | 2.3 ms         |
| Power factor (min.)    | 0.9            |

## Controls and Dimming

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

## Mechanical and Housing

|                             |                 |
|-----------------------------|-----------------|
| Housing material            | Aluminium       |
| Reflector material          | -               |
| Optic material              | Acrylate        |
| Optical cover/lens material | Glass           |
| Fixation material           | Stainless steel |
| Optical cover/lens finish   | Clear           |
| Overall length              | 647 mm          |
| Overall width               | 450 mm          |
| Overall height              | 211 mm          |
| Colour                      | Silver          |

## Approval and Application

|                              |   |
|------------------------------|---|
| Ingress protection code      | IP65 [ Dust penetration-protected, jet-proof] |
| Mech. impact protection code | IK07 [ 2 J reinforced]                        |

## Initial Performance (IEC Compliant)

|                                |                      |
|--------------------------------|----------------------|
| Initial luminous flux          | 17000 lm             |
| Luminous flux tolerance        | +/-7%                |
| Initial LED luminaire efficacy | 153 lm/W             |
| Init. Corr. colour temperature | 4000 K               |
| Init. colour rendering index   | ≥80                  |
| Initial chromaticity           | (0.38, 0.38) SDCM <3 |
| Initial input power            | 111 W                |
| Power consumption tolerance    | +/-11%               |

## Over Time Performance (IEC Compliant)

|  |      |
|--|------|
| Control gear failure rate at median useful life 50000 h  | 5 %  |
| Control gear failure rate at median useful life 100000 h | 10 % |
| Lumen maintenance at median useful life* 50000 h         | L85  |
| Lumen maintenance at median useful life* 100000 h        | L70  |

## Application Conditions

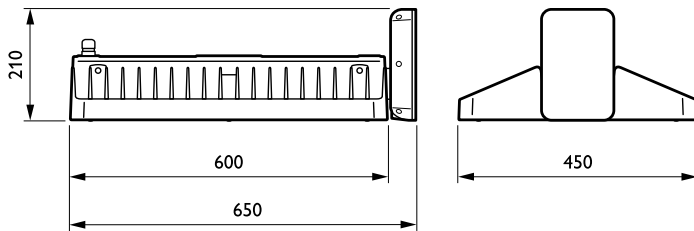
|                                    |               |
|------------------------------------|---------------|
| Ambient temperature range          | -20 to +45 °C |
| Performance ambient temperature Tq | 25 °C         |
| Maximum dimming level              | 10%           |

## Product Data

|                                 |                                  |
|---------------------------------|----------------------------------|
| Full product code               | 871869632139300                  |
| Order product name              | BY471X GRN170S/840 HRO GC ACW SI |
| EAN/UPC – product               | 8718696321393                    |
| Order code                      | 32139300                         |
| Numerator – quantity per pack   | 1                                |
| Numerator – packs per outer box | 1                                |
| Material no. (12NC)             | 910930205897                     |
| Net weight (piece)              | 15.700 kg                        |

## GentleSpace Green Warehouse system

### Dimensional drawing



GentleSpace Warehouse system BY470X/BY471X

