



# GentleSpace GreenWarehouse

## BY470X GRN130S/840 MB PC ACW SI

GentleSpace GreenWarehouse, LED GreenLine system flux 13000 lm, 840 neutral white, Medium beam, Polycarbonate bowl/cover, 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      |                                                                                                                                                               |                     |                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------|
| Lamp family code         | GRN130S [LED GreenLine system flux 13000 lm]                                                                                                                  |                     | maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value. |
| Light source replaceable | Yes                                                                                                                                                           | Product family code | BY470X [GentleSpace GreenWarehouse]                                                                                       |
| Number of gear units     | 1 unit                                                                                                                                                        | Lighting Technology | LED                                                                                                                       |
| Driver included          | Yes                                                                                                                                                           | Glow-wire test      | Temperature 650 °C, duration 5 s                                                                                          |
| Remarks                  | * -Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen | Flammability mark   | For mounting on easily flammable surfaces                                                                                 |
|                          |                                                                                                                                                               | CE mark             | Yes                                                                                                                       |
|                          |                                                                                                                                                               | ENEC mark           | ENEC mark                                                                                                                 |
|                          |                                                                                                                                                               | Warranty period     | 5 years                                                                                                                   |

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|                   |                   |
|-------------------|-------------------|
| EU RoHS compliant | Yes               |
| Embedded control  | ActiLume wireless |

## Light Technical

|                                    |                          |
|------------------------------------|--------------------------|
| Luminous Flux                      | 13,000 lm                |
| Correlated Color Temperature (Nom) | 4000 K                   |
| Luminous Efficacy (rated) (Nom)    | 148 lm/W                 |
| Color rendering index (CRI)        | ≥80                      |
| Number of light sources            | 8                        |
| Beam angle of light source         | 114 degree(s)            |
| Light source color                 | 840 neutral white        |
| Optic type                         | Medium beam              |
| Optical cover type                 | Polycarbonate bowl/cover |
| Luminaire light beam spread        | 40° x 40°                |
| Unified glare rating CEN           | 25                       |

## Operating and Electrical

|                                          |                                         |
|------------------------------------------|-----------------------------------------|
| Input Voltage                            | 220 to 240 V                            |
| Line Frequency                           | 50 to 60 Hz                             |
| Inrush current                           | 4.8 A                                   |
| Inrush time                              | 2.3 ms                                  |
| Power Consumption                        | 88 W                                    |
| Power Factor (Fraction)                  | 0.9                                     |
| Connection                               | External connector                      |
| Cable                                    | Cable 0.5 m with cable connector 3-pole |
| Number of products on MCB of 16 A type B | 12                                      |

## Temperature

|                           |               |
|---------------------------|---------------|
| Ambient temperature range | -20 to +45 °C |
|---------------------------|---------------|

## Controls and Dimming

|                               |                                       |
|-------------------------------|---------------------------------------|
| Dimmable                      | Yes                                   |
| Driver/power unit/transformer | Power supply unit with DALI interface |
| Control interface             | -                                     |
| Constant light output         | No                                    |

## Mechanical and Housing

|                        |                 |
|------------------------|-----------------|
| Housing Material       | Aluminum        |
| Reflector material     | -               |
| Optic material         | Acrylate        |
| Optical cover material | Polycarbonate   |
| Fixation material      | Stainless steel |
| Housing Color          | Silver          |

|                                     |                    |
|-------------------------------------|--------------------|
| Optical cover finish                | Clear              |
| Overall length                      | 502 mm             |
| Overall width                       | 350 mm             |
| Overall height                      | 211 mm             |
| Dimensions (Height x Width x Depth) | 211 x 350 x 502 mm |

## Approval and Application

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

## Initial Performance (IEC Compliant)

|                             |                      |
|-----------------------------|----------------------|
| Luminous flux tolerance     | +/-7%                |
| Initial chromaticity        | (0.38, 0.38) SDCM <3 |
| 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

|                                    |       |
|------------------------------------|-------|
| Performance ambient temperature Tq | 25 °C |
| Maximum dim level                  | 10%   |
| Suitable for random switching      | Yes   |

## Product Data

|                                 |                                 |
|---------------------------------|---------------------------------|
| Order product name              | BY470X GRN130S/840 MB PC ACW SI |
| Full product name               | BY470X GRN130S/840 MB PC ACW SI |
| Full product code               | 871869632145400                 |
| Order code                      | 910930205904                    |
| Material Nr. (12NC)             | 910930205904                    |
| Numerator - Quantity Per Pack   | 1                               |
| EAN/UPC - Product/Case          | 8718696321454                   |
| Numerator - Packs per outer box | 1                               |
| EAN/UPC - Case                  | 8718696321454                   |

### Dimensional drawing

