GentleSpace Green Warehouse system

BY470X GRN130S/840 HRO PC ACW SI

GentleSpace GreenWarehouse, LED GreenLine system flux 13000 lm, 840 neutral white, High-rack optic, 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]
Light source replaceable	Yes
Number of gear units	Unit
Driver included	Yes
Remarks	*- According to the Lighting Europe guidance paper 'Evaluating performance of LED based luminaires – January 2018': statistically there is no relevant difference in lumen

	maintenance between the B50 and, for example, the B10. Therefore, the median useful life (B50) value also represents the B10 value.
Product family code	BY470X [GentleSpace GreenWarehouse]
Lighting Technology	LED
Embedded control	ActiLume wireless
CE mark	Yes
Warranty period	5 years
Flammability mark	For mounting on easily flammable surfaces

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ENEC mark	ENEC mark
Glow-wire test	Temperature 650 ℃, duration 5 s
EU RoHS compliant	Yes

Light Technical

Luminous Flux	13,000 lm
Correlated Colour Temperature	4000 K
Luminous efficacy (rated) (nom.)	148 lm/W
Colour rendering index (CRI)	≥80
Beam angle of light source	114 degree(s)
Light source colour	840 neutral white
Optic type	High-rack optic
Optical cover type	Polycarbonate bowl/cover
Luminaire light beam spread	16° x 47°
Unified Glare Rating (CEN)	Not applicable

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 ℃

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	Aluminium
Reflector material	–
Optic material	Acrylate
Optical cover/lens material	Polycarbonate
Fixation material	Stainless steel
Housing Colour	Silver

Optical cover/lens 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 50,000 h	5 %
Control gear failure rate at median useful life 100,000 h	10 %
Lumen maintenance at median useful life* 50,000 h	L85
Lumen maintenance at median useful life* 100,000 h	L70

Application Conditions

Performance ambient temperature Tq	25 ℃
Maximum dim level	10%
Suitable for random switching	Yes

Product Data

Order product name	BY470X GRN130S/840 HRO PC ACW SI
Full product name	BY470X GRN130S/840 HRO PC ACW SI
Full EOC	871869632147800
Order code	32147800
Material no. (12 NC)	910930205906
SAP numerator – quantity per pack	1
EAN/UPC — Product/Case	8718696321478
Numerator – packs per outer box	1
EAN/UPC – Case	8718696321478

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Dimensional drawing