PHILIPS Lighting



GentleSpace gen2

BY471P GRN250S/840 PSD HRO GC SI

GentleSpace 2, LED GreenLine system flux 25000 lm, 840 neutral white, Power supply unit with DALI interface, High-rack optic, Clear glass, Silver

With the introduction of the GentleSpace LED luminaire in 2011, Philips achieved a breakthrough in high-bay lighting, offering a huge reduction in power consumption, a long service life and an innovative design. Now, with GentleSpace gen2, Philips is setting a new standard in the market, with an improved total cost of ownership, even in extreme conditions. In addition, a high diversity of options are available to ensure an ideal solution for your application like optics, coatings and enabling the use of a central emergency grid (PSED).

Product data

General Information	
Lamp family code	GRN250S [LED GreenLine system flux 25000
	lm]
Cap base	- [-]
Light source replaceable	Yes
Number of gear units	2 units
Gear	EB [Electronic]
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	BY471P [GentleSpace 2]	
Lighting Technology	LED	
Embedded control	-	
CE mark	Yes	
Warranty period	5 years	
Flammability mark	For mounting on easily flammable surfaces	
ENEC mark	ENEC mark	
Glow-wire test	Temperature 850 °C, duration 5 s	
EU RoHS compliant	Yes	
Light Technical		
Luminous Flux	25,000 lm	
Correlated Colour Temperature	4000 K	

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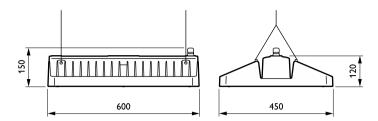
Luminous efficacy (rated) (nom.)	152 lm/W	Overall height
Colour rendering index (CRI)	≥80	Dimensions (height x width x depth)
Beam angle of light source	114 degree(s)	
Light source colour	840 neutral white	Approval and Application
Optic type	High-rack optic	Ingress protection code
Optical cover type	Clear glass	Mech. impact protection code
Luminaire light beam spread	16° x 47°	Protection class IEC
Unified Glare Rating (CEN)	Not applicable	
		Initial Performance (IEC Complia
Operating and Electrical		Luminous flux tolerance
Input Voltage	220-240 V	Initial chromaticity
Line Frequency	50 to 60 Hz	Power consumption tolerance
Inrush current	9.6 A	
Inrush time	2.3 ms	Over Time Performance (IEC Con
Power Consumption	164 W	Control gear failure rate at median use
Power Factor (Fraction)	0.9	life 50,000 h
Connection	External connector	Control gear failure rate at median use
Cable	Cord with plug Wieland/Adels compatible 5-	life 100,000 h
	pole	Lumen maintenance at median useful
Number of products on MCB of 16 A type	6	life* 50,000 h
		Luna an an ata ta ana an an an aite an aite an aite a
B		Lumen maintenance at median useful
В		Lumen maintenance at median userul life* 100,000 h
Temperature	-30 to +45 ℃	
Temperature	-30 to +45 °C	life* 100,000 h
Temperature Ambient temperature range	-30 to +45 °C	life* 100,000 h Application Conditions
Temperature Ambient temperature range Controls and Dimming	-30 to +45 °C	life* 100,000 h Application Conditions Performance ambient temperature Tq
Temperature Ambient temperature range Controls and Dimming Dimmable		life* 100,000 h Application Conditions Performance ambient temperature Tq Maximum dim level
Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer	Yes	life* 100,000 h Application Conditions Performance ambient temperature Tq Maximum dim level
Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface	Yes Power supply unit with DALI interface	life* 100,000 h Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching
Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface	Yes Power supply unit with DALI interface DALI	life* 100,000 h Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data
Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output	Yes Power supply unit with DALI interface DALI	life* 100,000 h Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name
Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing	Yes Power supply unit with DALI interface DALI	life* 100,000 h Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name
Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing Housing material	Yes Power supply unit with DALI interface DALI No	life* 100,000 h Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full EOC
Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing Housing material Reflector material	Yes Power supply unit with DALI interface DALI No	life* 100,000 h Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full EOC Order code
Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing Housing material Reflector material Optic material	Yes Power supply unit with DALI interface DALI No Aluminium	life* 100,000 h Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product name Full EOC Order code Material no. (12 NC)
Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing Housing material Reflector material Optic material Optical cover/lens material	Yes Power supply unit with DALI interface DALI No Aluminium - Acrylate	life* 100,000 h Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full Product name Full EOC Order code Material no. (12 NC) SAP numerator – quantity per pack
Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing Housing material Reflector material Optic material Optical cover/lens material Fixation material	Yes Power supply unit with DALI interface DALI No Aluminium - Acrylate Glass	life* 100,000 h Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product name Full EOC Order code Material no. (12 NC) SAP numerator – quantity per pack EAN/UPC – Product/Case
Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing Housing material Reflector material Optic material Optical cover/lens material Fixation material Housing Colour	Yes Power supply unit with DALI interface DALI No Aluminium - Acrylate Glass Stainless steel	life* 100,000 h Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product name Full EOC Order code Material no. (12 NC) SAP numerator – quantity per pack EAN/UPC – Product/Case Numerator – packs per outer box
B Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing Housing material Reflector material Optic material Optical cover/lens material Fixation material Housing Colour Optical cover/lens finish Overall length	Yes Power supply unit with DALI interface DALI No Aluminium - Acrylate Glass Stainless steel Silver	life* 100,000 h Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product name Full EOC Order code Material no. (12 NC) SAP numerator – quantity per pack EAN/UPC – Product/Case Numerator – packs per outer box

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Dimensions (height x width x depth)	150 x 450 x 600 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 Compl	iant)	
Control gear failure rate at median useful	5 %	
life 50,000 h		
Control gear failure rate at median useful	10 %	
life 100,000 h		
Lumen maintenance at median useful	L85	
life* 50,000 h		
Lumen maintenance at median useful	L70	
life* 100,000 h		
Application Conditions		
Performance ambient temperature Tq	25 ℃	
Maximum dim level	10%	
Suitable for random switching	No	
Product Data		
Order product name	BY471P GRN250S/840 PSD HRO GC SI	
Full product name	BY471P GRN250S/840 PSD HRO GC SI	
Full EOC	871869632202400	
Order code	32202400	
Material no. (12 NC)	910930205961	
SAP numerator – quantity per pack	1	
EAN/UPC - Product/Case	8718696322024	
Numerator – packs per outer box	1	
EAN/UPC - Case	8718696322024	

150 mm

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Dimensional drawing





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