# **PHILIPS** Lighting



# **GentleSpace gen2**

# BY470P GRN130S/840 PSD WB PC BR SI

GentleSpace 2, LED GreenLine system flux 13000 lm, Power supply unit with DALI interface, Wide beam, Polycarbonate bowl/cover, 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	GRN130S [LED GreenLine system flux 13000
	lm]
Cap-Base	- [-]
Light source replaceable	Yes
Number of gear units	1 unit
Gear	EB [Electronic]
Driver included	Yes
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.

Service tag	Yes
Product family code	BY470P [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	13,000 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	149 lm/W

## GentleSpace gen2

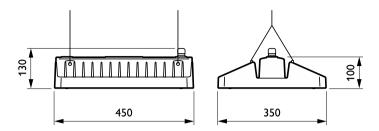
Color rendering index (CRI)	≥80	Overall height
Number of light sources	8	Dimensions (Height x Width x Depth)
Beam angle of light source	114 degree(s)	
Light source color	840 neutral white	Approval and Application
Optic type	Wide beam	Ingress protection code
Optical cover type	Polycarbonate bowl/cover	Mech. impact protection code
Luminaire light beam spread	42° x 44°	Protection class IEC
Unified glare rating CEN	25	
		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	4.8 A	
Inrush time	2.3 ms	Over Time Performance (IEC Con
Power Consumption	87 W	Control gear failure rate at median use
Power Factor (Fraction)	0.9	life 50000 h
Connection	External connector	Control gear failure rate at median use
Cable	Cord with plug Wieland/Adels compatible 5-	life 100000 h
	pole	Lumen maintenance at median useful
Number of products on MCB of 16 A type	12	life* 50000 h
В		Lumen maintenance at median useful
		life* 100000 h
Temperature	· · · · · · · · · · · · · · · · · · ·	
	-30 to +45 °C	Application Conditions
Temperature Ambient temperature range	-30 to +45 °C	Application Conditions Performance ambient temperature Tq
	-30 to +45 °C	
Ambient temperature range	-30 to +45 °C Yes	Performance ambient temperature Tq
Ambient temperature range Controls and Dimming		Performance ambient temperature Tq Maximum dim level
Ambient temperature range Controls and Dimming Dimmable	Yes	Performance ambient temperature Tq Maximum dim level
Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer	Yes Power supply unit with DALI interface	Performance ambient temperature Tq Maximum dim level Suitable for random switching
Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface	Yes Power supply unit with DALI interface DALI	Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data
Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface	Yes Power supply unit with DALI interface DALI	Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name
Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output	Yes Power supply unit with DALI interface DALI	Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name
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 No	Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code
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	Performance ambient temperature Tq         Maximum dim level         Suitable for random switching         Product Data         Order product name         Full product name         Full product code         Order code
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 Aluminum	Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code Order code Material Nr. (12NC)
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 Aluminum - Acrylate	Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code Order code Material Nr. (12NC) Numerator - Quantity Per Pack
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 material	Yes Power supply unit with DALI interface DALI No Aluminum - Acrylate Polymethyl methacrylate	Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code Order code Material Nr. (12NC) Numerator - Quantity Per Pack EAN/UPC - Product/Case
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 material Fixation material Housing Color	Yes Power supply unit with DALI interface DALI No Aluminum - Acrylate Polymethyl methacrylate Steel	Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code Order code Material Nr. (12NC) Numerator - Quantity Per Pack EAN/UPC - Product/Case Numerator - Packs per outer box
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 material Fixation material	Yes Power supply unit with DALI interface DALI No Aluminum - Acrylate Polymethyl methacrylate Steel Silver	Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code Order code Material Nr. (12NC) Numerator - Quantity Per Pack EAN/UPC - Product/Case Numerator - Packs per outer box

Dimensions (Height x Width x Depth)	130 x 350 x 450 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	5 %	
life 50000 h		
Control gear failure rate at median useful	10 %	
life 100000 h		
Lumen maintenance at median useful	L85	
life* 50000 h		
Lumen maintenance at median useful	L70	
life* 100000 h		
Application Conditions		
Performance ambient temperature Tq	25 °C	
Maximum dim level	10%	
Suitable for random switching	No	
Product Data		
Order product name	BY470P GRN130S/840 PSD WB PC BR SI	
Full product name	BY470P GRN130S/840 PSD WB PC BR SI	
Full product code	871869632209300	
Order code	32209300	
Material Nr. (12NC)	910930205968	
Numerator - Quantity Per Pack	1	
EAN/UPC - Product/Case	8718696322093	
Numerator - Packs per outer box	1	
EAN/UPC - Case	8718696322093	

130 mm

## GentleSpace gen2

#### Dimensional drawing





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