



GentleSpace gen2 – the new standard in industrial high-bay lighting, combining functionality with design

GentleSpace gen2

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).

Benefits

- Extremely favorable total cost of ownership
- Customizable for high diversity of applications
- Proven reliability

Features

- Improved efficiency of 143 lm/W; Constant Light Output technology available as an option for further energy savings
- Extremely long lifetime of up to 70,000 hours; valid over the entire temperature range from -30 °C to +45 °C
- Iconic design, reducing height and surface to meet ESFR sprinkler requirements
- High quality of light, compliant with EN-12464-1 and diverse optics to fit your application; central DC emergency lighting feature available as option (PSED), compliant with IEC 60598-2-22
- Suitable for new builds or point-for-point replacement of HPI 250 W, HPL 400 W or HPI 400 W, reducing energy consumption by over 50%

Application

- Industrial halls, food industry and warehouses
- Exhibition halls
- Showrooms and retail environments
- Swimming pools

Specifications

Type	BY470P (13,000 lm version) BY471P (17,000 and 25,000 lm versions)
Light source	Philips Fortimo LED Line 1R
Power	BY470P: 95 W BY471P: 126 and 180 W
Luminous flux	GRN versions: 13,000, 17,000 and 25,000 lm ECO versions: 13,000, 17,000, 25,000 and 32,000 lm XT versions: 17,000 and 25,000 lm
Correlated Color Temperature	4000 K
Color Rendering Index	> 80
Lumen maintenance at median useful life*	GRN versions: L85 ECO versions: L80 XT versions: L95
50000 h	
Control gear failure rate at median useful life	GRN versions: 5% ECO versions: 5% XT versions: 5%
50000 h	
Lumen maintenance at median useful life*	GRN versions: L70 ECO versions: L65 XT versions: L85
100000 h	
Control gear failure rate at median useful life	GRN versions: 10% ECO versions: 10% XT versions: 10%
100000 h	
Performance Ambient Temperature Tq	+25 °C
Driver	Built-in (self ballasted LED-module)
Mains voltage	220-240 V AC / 50-60 Hz 186-250 V DC

Dimming	Dimmable (PSD)
Controls system input	DALI (25,000 lm version requires 2 DALI addresses) The 25,000 and 30,000 versions require 2 drivers
Material	Housing: die-cast aluminum Optic: PMMA Cover: thermally toughened clear glass
Color	Silver grey (SI), white (WH) Other RAL colors available on request
Optic	Narrow beam (NB) Medium beam (MB) Wide beam (WB) High-rack (HRO) Asymmetrical mirror axis angle 50° (A50)
Optical cover	Glass cover (tempered, clear); optional PC or PMMA cover
Installation	Wall mounting Installation without removing lamps and optic/cover Y-grippe Mounting bracket (optional) External IP65 electrical connector
Accessories	Mounting brackets (BY470Z, BY471Z) Wall mounting bracket
Remarks	The lifetime for upto 100,000 hours (XT version) is valid throughout the whole temperature range of -30 °C up to +45 °C External IP65 connector and Y-grippe suspension set are included Overheat protection in XT version to ensure long maintenance-free life

Versions

	GentleSpace gen2 BY471P high-bay luminaire with wall-mounting bracket		GentleSpace 2 - LED EconomyLine 17,000 lm
	GentleSpace 2 - LED EconomyLine 25,000 lm		GentleSpace 2 - LED ProfessionalLine, system flux 17,000 lm
	GentleSpace gen2 BY470P high-bay luminaire, 13,000 lumen version		GentleSpace gen2 BY471P high-bay luminaire, 17,000 lumen version

Product details

	GentleSpace gen2		GentleSpace gen2
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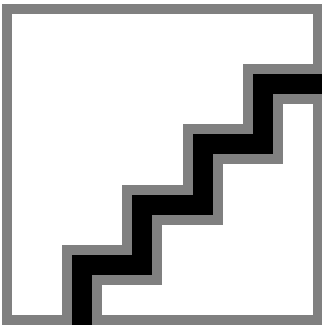
Product details



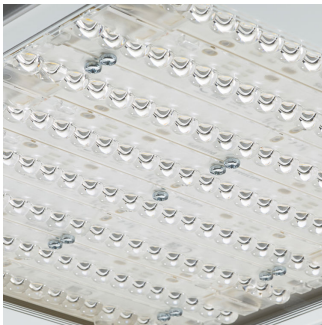
GentleSpace gen2



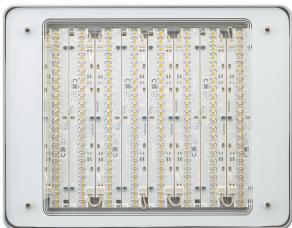
GentleSpace_gen2-BY471Z_MBW-DP07



GentleSpace gen2



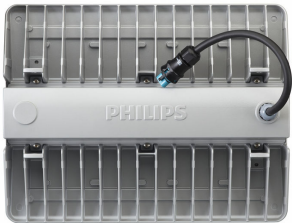
IPDP_BY470Pi_0001-Detail photo



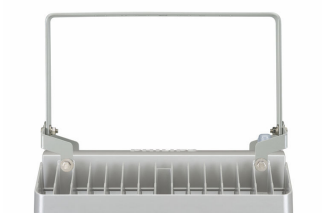
IPDP_BY470Pi_0003-Detail photo



IPDP_BY470Pi_0005-Detail photo

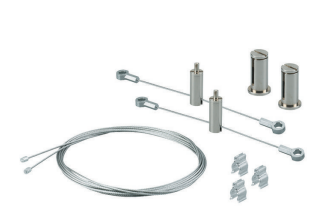


IPDP_BY470Pi_0007-Detail photo



IPDP_BY470Pi_0009-Detail photo

Accessories



Ordercode 910925255113,
910925259591



Mounting bracket
Ordercode 90047400



Mounting bracket
Ordercode 90048100



Mounting bracket
Ordercode 90866100



Mounting bracket
Ordercode 90867800

Application Conditions

Ambient temperature range -30 to +45 °C

Maximum dim level 10%

Approval and Application

Mech. impact protection code IK07

Ingress protection code IP65

Controls and Dimming

Dimmable Yes

Operating and Electrical

Input Voltage 220-240 V

General Information

Beam angle of light source 114 °

Cap-Base -

CE mark CE mark

Protection class IEC Safety class I (I)

Design Award Winner mark
Design Award
Winner 2014

Driver included Yes

Flammability mark D

Gear EB

Embedded control No

Light source replaceable Yes

Service tag Yes

Initial Performance (IEC Compliant)Initial chromaticity (0.38, 0.38) SDCM
<3

Init. Corr. Color Temperature 4000 K

Init. Color Rendering Index ≥80

Luminous flux tolerance +/-7%

Application Conditions

Order Code	Full Product Name	Suitable for random switching
34595500	BY471P GRN170S/840 PSD A50 G MBW SI SWP	Yes
34596200	BY471P GRN250S/840 PSD A50 G MBW SI SWP	Yes
34791100	BY470P ECO170S/840 PSD MB GC SI	No
34794200	BY470P ECO170S/840 PSD WB GC SI	No
34847500	BY473P GRN170S/840 PSD WB G SI	No
32180500	BY470P GRN130S/840 PSD WB GC SI	No
32183600	BY470P GRN130S/840 PSD HRO GC SI	No
32184300	BY470P GRN130S/840 PSD WB GC BR SI	No
32187400	BY470P GRN130S/840 PSD WB GC BR SI SWP	No
34793500	BY471P ECO320S/840 PSD MB GC SI	No
34795900	BY471P ECO250S/840 PSD WB GC SI	No
34796600	BY471P ECO320S/840 PSD WB GC SI	No
32189800	BY471P GRN170S/840 PSD WB GC SI	No
32190400	BY471P GRN170S/840 PSD MB GC SI	No
32229100	BY470P GRN130S/840 PSD MB GC WH	No
32235200	BY471P GRN170S/840 PSD MB GC WH	No

General Information (1/2)

Order Code	Full Product Name	Ball impact resistance mark	Optical cover/ lens type	ENEC mark	Glow-wire test
34595500	BY471P GRN170S/840 PSD A50 G MBW SI SWP	Ball Impact Resistance mark	G	ENEC mark	850/5
34596200	BY471P GRN250S/840 PSD A50 G MBW SI SWP	Ball Impact Resistance mark	G	ENEC mark	850/5
34791100	BY470P ECO170S/840 PSD MB GC SI	-	GC	ENEC mark	650/5
34794200	BY470P ECO170S/840 PSD WB GC SI	-	GC	ENEC mark	650/5
34847500	BY473P GRN170S/840 PSD WB G SI	-	G	-	650/5

Order Code	Full Product Name	Ball impact resistance mark	Optical cover/ lens type	ENEC mark	Glow-wire test
32180500	BY470P GRN130S/840 PSD WB GC SI	-	GC	ENEC mark	850/5
32183600	BY470P GRN130S/840 PSD HRO GC SI	-	GC	ENEC mark	850/5
32184300	BY470P GRN130S/840 PSD WB GC BR SI	Ball Impact Resistance mark	GC	ENEC mark	850/5
32187400	BY470P GRN130S/840 PSD WB GC BR SI SWP	Ball Impact Resistance mark	GC	ENEC mark	850/5
34793500	BY471P ECO320S/840 PSD MB GC SI	-	GC	ENEC mark	650/5

Order Code	Full Product Name	Ball impact resistance mark	Optical cover/ lens type	ENEC mark	Glow- wire test
34795900	BY471P ECO250S/840 PSD WB GC SI	-	GC	ENEC mark	650/5
34796600	BY471P ECO320S/840 PSD WB GC SI	-	GC	ENEC mark	650/5
32189800	BY471P GRN170S/840 PSD WB GC SI	Ball Impact Resistance mark	GC	ENEC mark	850/5

Order Code	Full Product Name	Ball impact resistance mark	Optical cover/ lens type	ENEC mark	Glow- wire test
32190400	BY471P GRN170S/840 PSD MB GC SI	-	GC	ENEC mark	850/5
32229100	BY470P GRN130S/840 PSD MB GC WH	-	GC	ENEC mark	850/5
32235200	BY471P GRN170S/840 PSD MB GC WH	-	GC	ENEC mark	850/5

General Information (2/2)

Order Code	Full Product Name	Lamp family code	Number of gear units	Number of light sources	Optic type	Product Family Code	Suspension accessories
34595500	BY471P GRN170S/840 PSD A50 G MBW SI SWP	GRN170S	1 unit	12	A50	BY471P	MBW
34596200	BY471P GRN250S/840 PSD A50 G MBW SI SWP	GRN250S	2 units	16	A50	BY471P	MBW
34791100	BY470P ECO170S/840 PSD MB GC SI	ECO170	1 unit	12	MB	BY470P	No
34794200	BY470P ECO170S/840 PSD WB GC SI	ECO170	1 unit	12	WB	BY470P	No
34847500	BY473P GRN170S/840 PSD WB G SI	GRN170S	1 unit	12	WB	BY473P	No
32180500	BY470P GRN130S/840 PSD WB GC SI	GRN130S	1 unit	8	WB	BY470P	No
32183600	BY470P GRN130S/840 PSD HRO GC SI	GRN130S	1 unit	8	HRO	BY470P	No
32184300	BY470P GRN130S/840 PSD WB GC BR SI	GRN130S	1 unit	8	WB	BY470P	No
32187400	BY470P GRN130S/840 PSD WB GC BR SI SWP	GRN130S	1 unit	8	WB	BY470P	No
34793500	BY471P ECO320S/840 PSD MB GC SI	ECO320	2 units	16	MB	BY471P	No
34795900	BY471P ECO250S/840 PSD WB GC SI	ECO250	2 units	16	WB	BY471P	No
34796600	BY471P ECO320S/840 PSD WB GC SI	ECO320	2 units	16	WB	BY471P	No
32189800	BY471P GRN170S/840 PSD WB GC SI	GRN170S	1 unit	12	WB	BY471P	No
32190400	BY471P GRN170S/840 PSD MB GC SI	GRN170S	1 unit	12	MB	BY471P	No
32229100	BY470P GRN130S/840 PSD MB GC WH	GRN130S	1 unit	8	MB	BY470P	No
32235200	BY471P GRN170S/840 PSD MB GC WH	GRN170S	1 unit	12	MB	BY471P	No

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
34595500	BY471P GRN170S/840 PSD A50 G MBW SI SWP	155 lm/W	17000 lm	110 W
34596200	BY471P GRN250S/840 PSD A50 G MBW SI SWP	152 lm/W	25000 lm	164 W
34791100	BY470P ECO170S/840 PSD MB GC SI	142 lm/W	17000 lm	120 W
34794200	BY470P ECO170S/840 PSD WB GC SI	142 lm/W	17000 lm	120 W
34847500	BY473P GRN170S/840 PSD WB G SI	155 lm/W	17000 lm	110 W
32180500	BY470P GRN130S/840 PSD WB GC SI	149 lm/W	13000 lm	87 W
32183600	BY470P GRN130S/840 PSD HRO GC SI	149 lm/W	13000 lm	87 W
32184300	BY470P GRN130S/840 PSD WB GC BR SI	149 lm/W	13000 lm	87 W

Order Code	Full Product Name	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
32187400	BY470P GRN130S/840 PSD WB GC BR SI SWP	149 lm/W	13000 lm	87 W
34793500	BY471P ECO320S/840 PSD MB GC SI	147 lm/W	32000 lm	218 W
34795900	BY471P ECO250S/840 PSD WB GC SI	144 lm/W	25000 lm	177 W
34796600	BY471P ECO320S/840 PSD WB GC SI	147 lm/W	32000 lm	218 W
32189800	BY471P GRN170S/840 PSD WB GC SI	155 lm/W	17000 lm	110 W
32190400	BY471P GRN170S/840 PSD MB GC SI	155 lm/W	17000 lm	110 W
32229100	BY470P GRN130S/840 PSD MB GC WH	149 lm/W	13000 lm	87 W

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Order Code	Full Product Name	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
32235200	BY471P GRN170S/840 PSD MB GC WH	155 lm/W	17000 lm	110 W

Mechanical and Housing

Order Code	Full Product Name	Color
34595500	BY471P GRN170S/840 PSD A50 G MBW SI SWP	Silver
34596200	BY471P GRN250S/840 PSD A50 G MBW SI SWP	Silver
34791100	BY470P ECO170S/840 PSD MB GC SI	Silver
34794200	BY470P ECO170S/840 PSD WB GC SI	Silver
34847500	BY473P GRN170S/840 PSD WB G SI	Silver
32180500	BY470P GRN130S/840 PSD WB GC SI	Silver
32183600	BY470P GRN130S/840 PSD HRO GC SI	Silver
32184300	BY470P GRN130S/840 PSD WB GC BR SI	Silver

Order Code	Full Product Name	Color
32187400	BY470P GRN130S/840 PSD WB GC BR SI SWP	Silver
34793500	BY471P ECO320S/840 PSD MB GC SI	Silver
34795900	BY471P ECO250S/840 PSD WB GC SI	Silver
34796600	BY471P ECO320S/840 PSD WB GC SI	Silver
32189800	BY471P GRN170S/840 PSD WB GC SI	Silver
32190400	BY471P GRN170S/840 PSD MB GC SI	Silver
32229100	BY470P GRN130S/840 PSD MB GC WH	White
32235200	BY471P GRN170S/840 PSD MB GC WH	White

