



Philips GentleSpace – High efficiency, excellent light quality and connectivity options. Now every highbay application has met its match.

GentleSpace Gen3

GentleSpace gen3 provides a smart combination of versatile offer with high efficiency, connectivity options and reliability. It provides a wide variety of options in terms of optics, beam angles (from very narrow to wide) and lumen packages, each delivering on best-in-class quality of light for enhanced safety, productivity, and comfort. With GentleSpace gen3 you can easily create a tailor-made and ideal lighting solution for almost any high ceiling and/or industrial application. It supports changes in application requirements (such as layout changes) thanks to its flexible optical system, which can be easily adjusted even after installation. Additionally, a choice of mounting possibilities and pre-mounted IP65 connector enables quick and easy installation. You can choose various cover materials, special variants for extreme temperatures (XT), or hazardous areas (ATEX 2/22), or sports applications. In addition, GentleSpace gen3 also provides the option of advanced connectivity and is ready to be connected to IoT-based system and software applications such as Interact Industry. Created with Circularity principles in mind, GentleSpace is serviceable luminaire with all information available at hand, via Signify ServiceTag app. Whether you are looking for a reliable “fit & forget” solution or one that can be

GentleSpace Gen3

adapted and controlled after installation, GentleSpace gen3 is the ideal solution for your application.

Benefits

- Increased safety, productivity and comfort in application, thanks to high quality visibility combined with great uniformity and reduced glare
- Robust and reliable solution for long service life
- Highly efficient solution, reducing energy consumption by up to 65% comparing to conventional HPI-based solutions. Offers an attractive total cost of ownership.
- Works in smart lighting systems (Interact Ready)
- Serviceable design, and easy access to spare parts information, for extended product lifecycle.

Features

- High efficiency (HE) of up to 174 lm/W
- Long service life of up to L90 at 100K hrs
- Wide variety of optics (WB/MB/NB/XNB/HRO), including the option of adjustable optics variant (NBA) with the flexibility to shift from NB to WB with easy adjustment mechanism
- Special options to serve broad applications: Extreme version (XT) up to 70°C, ATEX 2/22 (BY482P, BY483P) Safety Class I or II, Swimming pool protected version (SWP) and VDE certified ball-proof (BP) option
- Detachable mounting system for easy installation and IP65 pre-mounted connector
- Option for dust cover to meet requirements of the food industry
- Access to the Signify Service tag app with service, maintenance information

Application

- Manufacturing sites (from food/beverage to heavy industry)
- Warehouses and logistics centers
- Indoor sports halls, swimming pools, and exhibition halls

Versions



GentleSpace Gen3 BY481 WH



GentleSpace Gen3 BY481 MB WH



GentleSpace Gen3 BY481P-BR



GentleSpace Gen3 BY481X-IRE

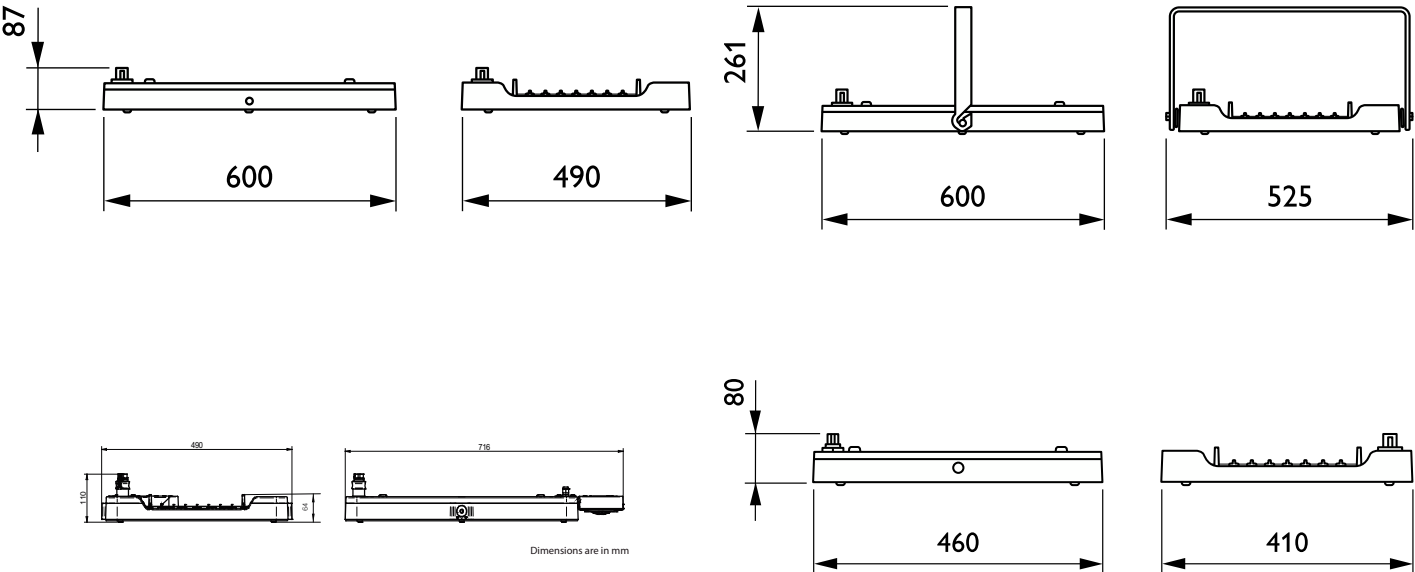
Versions



GentleSpace Gen3 BY481 MB

GentleSpace Gen3 BY481

Dimensional drawing



General Information	
Driver included	Yes
Light source replaceable	Yes
Number of gear units	1 unit
Service tag	Yes
Light Technical	
Beam angle of light source	114 degree(s)
Correlated Color Temperature (Nom)	4000 K
Color rendering index (CRI)	>80
Operating and Electrical	
Input Voltage	220-240 V
Line Frequency	50 to 60 Hz
Suitable for random switching	No
Controls and Dimming	
Dimmable	Yes
Maximum dim level	10%
Mechanical and Housing	
Ingress protection code	IP65
Approval and Application	
CE mark	Yes
ENEC mark	ENEC mark
Flammability mark	For mounting on easily flammable surfaces
Glow-wire test	Temperature 650 °C, duration 30 s
Initial Performance (IEC Compliant)	
Initial chromaticity	(0.38, 0.38) SDCM <3
Luminous flux tolerance	+/-10%

Light Technical

Order Code	Full Product Name	Luminous Efficacy		Luminous Flux	Optic type
		(rated) (Nom)			
910505100778	BY481P LED350S/840 PSD WB GC SI XT	148 lm/W		35,000 lm	Wide beam
910500465594	BY481P LED250S/840 PSD WB GC WH BR	160 lm/W		25,000 lm	Wide beam
910505100982	BY481P LED250S/840 PSD MB GC II SI BR XT	160 lm/W		25,000 lm	Medium beam
910500465539	BY480P LED130S/840 PSD WB GC SI	152 lm/W		13,000 lm	Wide beam
910500465542	BY480P LED170S/840 PSD WB GC SI	150 lm/W		17,000 lm	Wide beam
910500465568	BY480P LED130S/840 PSD WB PC SI	152 lm/W		13,000 lm	Wide beam
910505101268	BY480P LED130S/840 PSD HE WB GC SI	173 lm/W		13,000 lm	Wide beam
910505101801	BY480X LED130S/840 SIA HE WB GC SI H4	173 lm/W		13,000 lm	Wide beam
910500465608	BY481P LED350S/840 PSD WB GC SI BR	148 lm/W		35,000 lm	Wide beam
910500465573	BY481P LED350S/840 PSD HRO GC SI	148 lm/W		35,000 lm	High-rack optic

Operating and Electrical

Order Code	Full Product Name	Protection class	Power
		IEC	Consumption
910505100778	BY481P LED350S/840 PSD WB GC SI XT	Safety class I	235 W
910500465594	BY481P LED250S/840 PSD WB GC WH BR	Safety class I	156 W
910505100982	BY481P LED250S/840 PSD MB GC II SI BR XT	Safety class II	156 W
910500465539	BY480P LED130S/840 PSD WB GC SI	Safety class I	85 W
910500465542	BY480P LED170S/840 PSD WB GC SI	Safety class I	113 W

Order Code	Full Product Name	Protection class	Power
		IEC	Consumption
910500465568	BY480P LED130S/840 PSD WB PC SI	Safety class I	85 W
910505101268	BY480P LED130S/840 PSD HE WB GC SI	Safety class I	75 W
910505101801	BY480X LED130S/840 SIA HE WB GC SI H4	Safety class I	75 W
910500465608	BY481P LED350S/840 PSD WB GC SI BR	Safety class I	235 W
910500465573	BY481P LED350S/840 PSD HRO GC SI	Safety class I	235 W

Controls and Dimming

Order Code	Full Product Name	Embedded control
910505100778	BY481P LED350S/840 PSD WB GC SI XT	-
910500465594	BY481P LED250S/840 PSD WB GC WH BR	-
910505100982	BY481P LED250S/840 PSD MB GC II SI BR XT	-
910500465539	BY480P LED130S/840 PSD WB GC SI	-
910500465542	BY480P LED170S/840 PSD WB GC SI	-

Mechanical and Housing

Order Code	Full Product Name	Housing Color	Mech. impact protection code
910505100778	BY481P LED350S/840 PSD WB GC SI XT	Silver	IK07
910500465594	BY481P LED250S/840 PSD WB GC WH BR	White	IK07
910505100982	BY481P LED250S/840 PSD MB GC II SI BR XT	Silver	IK07
910500465539	BY480P LED130S/840 PSD WB GC SI	Silver	IK07
910500465542	BY480P LED170S/840 PSD WB GC SI	Silver	IK07

Approval and Application

Order Code	Full Product Name	Ambient temperature range	Flickering value (PstLM) - Flickering value as per EN 61000-3-3	Stroboscopic effect visibility measure (SVM)
910505100778	BY481P LED350S/840 PSD WB GC SI XT	-30 to +60 °C	0.22	0.01
910500465594	BY481P LED250S/840 PSD WB GC WH BR	-30 to +45 °C	0.12	0.07
910505100982	BY481P LED250S/840 PSD MB GC II SI BR XT	-40 to +70 °C	0.12	0.07
910500465539	BY480P LED130S/840 PSD WB GC SI	-30 to +45 °C	0.12	0.07
910500465542	BY480P LED170S/840 PSD WB GC SI	-30 to +45 °C	0.12	0.07

Product Data

Order Code	Full Product Name	Product family code
910505100778	BY481P LED350S/840 PSD WB GC SI XT	BY481P
910500465594	BY481P LED250S/840 PSD WB GC WH BR	BY481P
910505100982	BY481P LED250S/840 PSD MB GC II SI BR XT	BY481P

Order Code	Full Product Name	Embedded control
910500465568	BY480P LED130S/840 PSD WB PC SI	-
910505101268	BY480P LED130S/840 PSD HE WB GC SI	-
910505101801	BY480X LED130S/840 SIA HE WB GC SI H4	Sensor SNH (R) 210
910500465608	BY481P LED350S/840 PSD WB GC SI BR	-
910500465573	BY481P LED350S/840 PSD HRO GC SI	-

Order Code	Full Product Name	Housing Color	Mech. impact protection code
910500465568	BY480P LED130S/840 PSD WB PC SI	Silver	IK08
910505101268	BY480P LED130S/840 PSD HE WB GC SI	Silver	IK07
910505101801	BY480X LED130S/840 SIA HE WB GC SI H4	Silver	IK02
910500465608	BY481P LED350S/840 PSD WB GC SI BR	Silver	IK07
910500465573	BY481P LED350S/840 PSD HRO GC SI	Silver	IK07

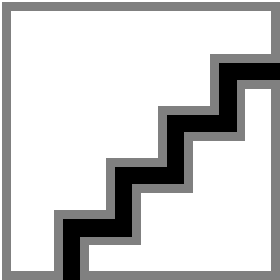
Order Code	Full Product Name	Ambient temperature range	Flickering value (PstLM) - Flickering value as per EN 61000-3-3	Stroboscopic effect visibility measure (SVM)
910500465568	BY480P LED130S/840 PSD WB PC SI	-30 to +45 °C	0.12	0.07
910505101268	BY480P LED130S/840 PSD HE WB GC SI	-30 to +45 °C	0.12	0.07
910505101801	BY480X LED130S/840 SIA HE WB GC SI H4	-30 to +45 °C	1	0.4
910500465608	BY481P LED350S/840 PSD WB GC SI BR	-30 to +45 °C	0.22	0.01
910500465573	BY481P LED350S/840 PSD HRO GC SI	-30 to +45 °C	0.22	0.01

Order Code	Full Product Name	Product family code
910500465539	BY480P LED130S/840 PSD WB GC SI	BY480P
910500465542	BY480P LED170S/840 PSD WB GC SI	BY480P
910500465568	BY480P LED130S/840 PSD WB PC SI	BY480P

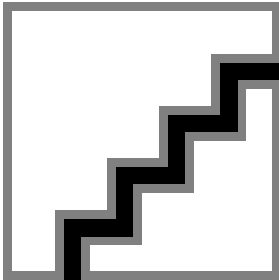
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910505101801	BY480X LED130S/840 SIA HE WB GC SI H4	BY480X

Order Code	Full Product Name	Product family code
910500465608	BY481P LED350S/840 PSD WB GC SI BR	BY481P
910500465573	BY481P LED350S/840 PSD HRO GC SI	BY481P

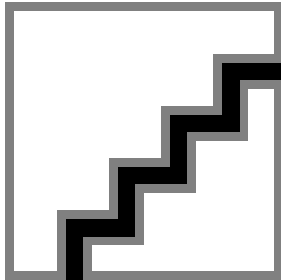
Polar Wide Diagrams



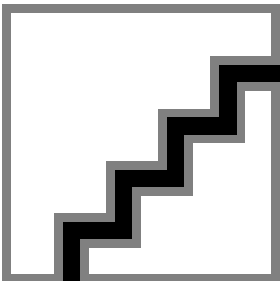
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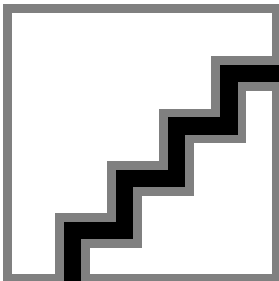
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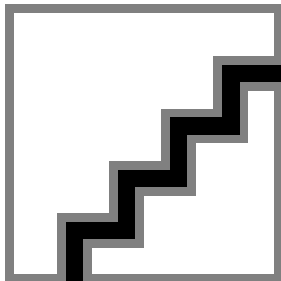
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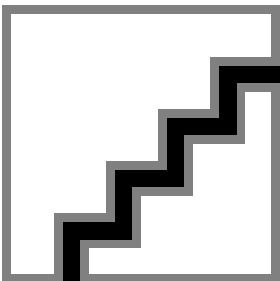
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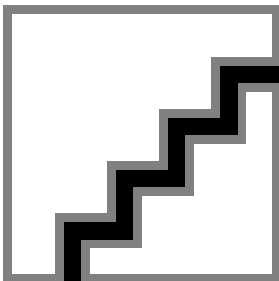
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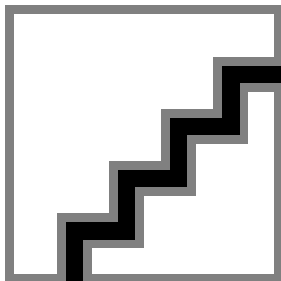
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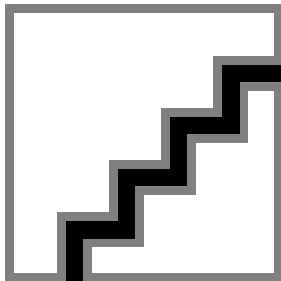


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Polar Normal (separate) - BY480PI - 910505100982

Polar Wide Diagrams



Polar Normal (separate) - BY480PI -
910505101801

