



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

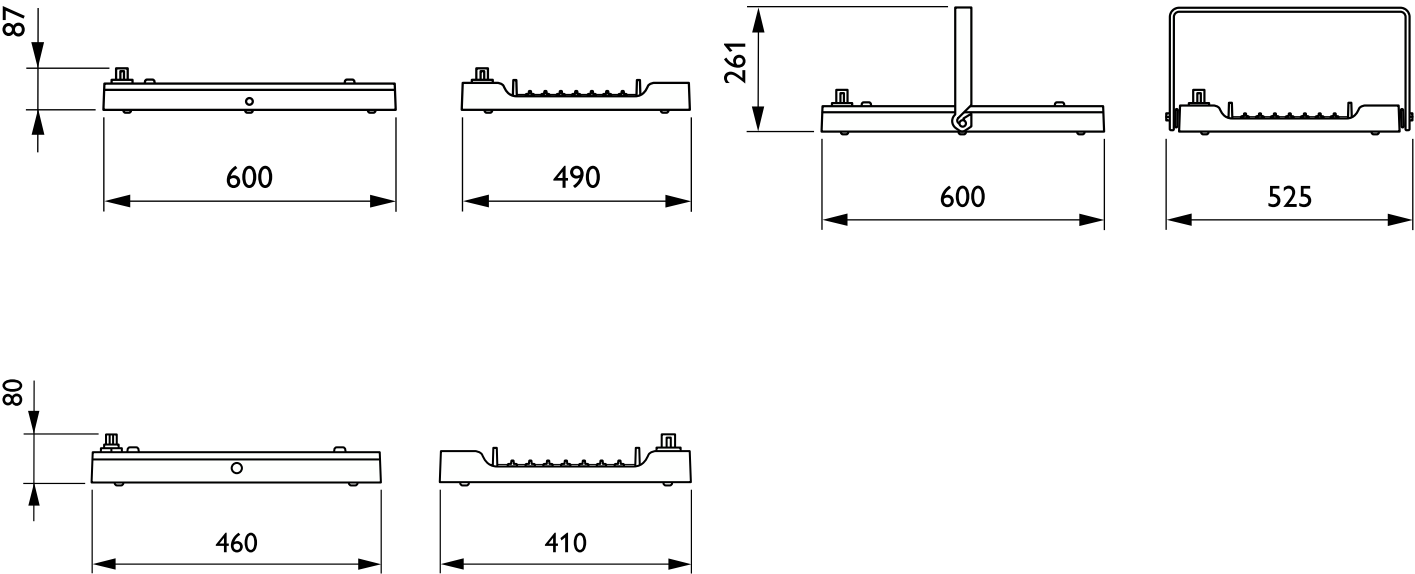


GentleSpace Gen3 BY481P-BR



GentleSpace Gen3 BY481 MB

Dimensional drawing



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

General Information

Order Code	Full Product Name	Explosion hazard class	Product family code
910500465607	BY481P LED250S/840 PSD HRO GC WH	-	BY481P
910500465689	BY481P LED350S/865 PSD WB PC SI BR	-	BY481P
910500465539	BY480P LED130S/840 PSD WB GC SI	-	BY480P
910505100773	BY482P LED170S/840 PSD WB GC SI	Zone 2 and 22	BY482P
910505100776	BY480P LED170S/840 PSD WB GC SI XT	-	BY480P
910500465608	BY481P LED350S/840 PSD WB GC SI BR	-	BY481P
910500465538	BY481P LED350S/840 PSD MB GC SI	-	BY481P
910500465549	BY481P LED350S/840 PSD WB GC SI	-	BY481P
910500465599	BY481P LED350S/840 PSD WB PC SI	-	BY481P

Light Technical (1/2)

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux	Optic type
910500465607	BY481P LED250S/840 PSD HRO GC WH	4000 K	160 lm/W	25,000 lm	High-rack optic
910500465689	BY481P LED350S/865 PSD WB PC SI BR	6500 K	148 lm/W	35,000 lm	Wide beam
910500465539	BY480P LED130S/840 PSD WB GC SI	4000 K	152 lm/W	13,000 lm	Wide beam

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux	Optic type
910505100773	BY482P LED170S/840 PSD WB GC SI	4000 K	150 lm/W	17,000 lm	Wide beam
910505100776	BY480P LED170S/840 PSD WB GC SI XT	4000 K	150 lm/W	17,000 lm	Wide beam
910500465608	BY481P LED350S/840 PSD WB GC SI BR	4000 K	148 lm/W	35,000 lm	Wide beam

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux	Optic type
910500465538	BY481P LED350S/840 PSD MB GC SI	4000 K	148 lm/W	35,000 lm	Medium beam
910500465549	BY481P LED350S/840 PSD WB GC SI	4000 K	148 lm/W	35,000 lm	Wide beam

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux	Optic type
910500465599	BY481P LED350S/840 PSD WB PC SI	4000 K	148 lm/W	35,000 lm	Wide beam

Light Technical (2/2)

Order Code	Full Product Name	Flickering value (PstLM) - Flickering value as per EN 61000-3-3	Stroboscopic effect visibility measure (SVM)
910500465607	BY481P LED250S/840 PSD HRO GC WH	0.12	0.07
910500465689	BY481P LED350S/865 PSD WB PC SI BR	0.22	0.01
910500465539	BY480P LED130S/840 PSD WB GC SI	0.12	0.07
910505100773	BY482P LED170S/840 PSD WB GC SI	0.12	0.07
910505100776	BY480P LED170S/840 PSD WB GC SI XT	0.12	0.07

Order Code	Full Product Name	Flickering value (PstLM) - Flickering value as per EN 61000-3-3	Stroboscopic effect visibility measure (SVM)
910500465608	BY481P LED350S/840 PSD WB GC SI BR	0.22	0.01
910500465538	BY481P LED350S/840 PSD MB GC SI	0.22	0.01
910500465549	BY481P LED350S/840 PSD WB GC SI	0.22	0.01
910500465599	BY481P LED350S/840 PSD WB PC SI	0.22	0.01

Operating and Electrical

Order Code	Full Product Name	Power Consumption
910500465607	BY481P LED250S/840 PSD HRO GC WH	156 W
910500465689	BY481P LED350S/865 PSD WB PC SI BR	235 W
910500465539	BY480P LED130S/840 PSD WB GC SI	85 W
910505100773	BY482P LED170S/840 PSD WB GC SI	113 W
910505100776	BY480P LED170S/840 PSD WB GC SI XT	113 W

Order Code	Full Product Name	Power Consumption
910500465608	BY481P LED350S/840 PSD WB GC SI BR	235 W
910500465538	BY481P LED350S/840 PSD MB GC SI	235 W
910500465549	BY481P LED350S/840 PSD WB GC SI	235 W
910500465599	BY481P LED350S/840 PSD WB PC SI	235 W

Temperature

Order Code	Full Product Name	Ambient temperature range
910500465607	BY481P LED250S/840 PSD HRO GC WH	-30 to +45 °C
910500465689	BY481P LED350S/865 PSD WB PC SI BR	-30 to +45 °C
910500465539	BY480P LED130S/840 PSD WB GC SI	-30 to +45 °C
910505100773	BY482P LED170S/840 PSD WB GC SI	-30 to +45 °C
910505100776	BY480P LED170S/840 PSD WB GC SI XT	-30 to +60 °C

Order Code	Full Product Name	Ambient temperature range
910500465608	BY481P LED350S/840 PSD WB GC SI BR	-30 to +45 °C
910500465538	BY481P LED350S/840 PSD MB GC SI	-30 to +45 °C
910500465549	BY481P LED350S/840 PSD WB GC SI	-30 to +45 °C
910500465599	BY481P LED350S/840 PSD WB PC SI	-30 to +45 °C

Mechanical and Housing

Order Code	Full Product Name	Housing Color
910500465607	BY481P LED250S/840 PSD HRO GC WH	White
910500465689	BY481P LED350S/865 PSD WB PC SI BR	Silver

Order Code	Full Product Name	Housing Color
910500465539	BY480P LED130S/840 PSD WB GC SI	Silver
910505100773	BY482P LED170S/840 PSD WB GC SI	Silver

GentleSpace Gen3

Order Code	Full Product Name	Housing Color
910505100776	BY480P LED170S/840 PSD WB GC SI XT	Silver
910500465608	BY481P LED350S/840 PSD WB GC SI BR	Silver
910500465538	BY481P LED350S/840 PSD MB GC SI	Silver

Order Code	Full Product Name	Housing Color
910500465549	BY481P LED350S/840 PSD WB GC SI	Silver
910500465599	BY481P LED350S/840 PSD WB PC SI	Silver

Approval and Application

Order Code	Full Product Name	Mech. impact protection code
910500465607	BY481P LED250S/840 PSD HRO GC WH	IK07
910500465689	BY481P LED350S/865 PSD WB PC SI BR	IK08
910500465539	BY480P LED130S/840 PSD WB GC SI	IK07
910505100773	BY482P LED170S/840 PSD WB GC SI	IK07
910505100776	BY480P LED170S/840 PSD WB GC SI XT	IK07

Order Code	Full Product Name	Mech. impact protection code
910500465608	BY481P LED350S/840 PSD WB GC SI BR	IK07
910500465538	BY481P LED350S/840 PSD MB GC SI	IK07
910500465549	BY481P LED350S/840 PSD WB GC SI	IK07
910500465599	BY481P LED350S/840 PSD WB PC SI	IK08

