

GentleSpace Gen3

BY480P LED170S/840 PSD WB GC SI

New Highbay - 840 neutral white - Power supply unit with DALI interface - Medium beam - Silver

With the third generation of the GentleSpace high-bay luminaire, we continue to bring innovations to the market by offering adaptable high bay lighting solutions for high ceiling and industrial applications. GentleSpace gen3 offers a wide variety of options in terms of optics and beam angles (from very narrow to wide), a choice of mounting possibilities and cover materials and a variety of lumen packages. This means that GentleSpace gen3 can easily help you create a tailor-made and ideal lighting solution for almost any high ceiling and/or industrial application. It can also support changes in application requirements (such as layout changes) thanks to its flexible optical system, which can be easily adjusted even after installation. 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. Overall, whether you are looking for a reliable “fit & forget” solution or one that can be adapted and controlled after installation, GentleSpace gen3 is the ideal solution for your application.

Product data

General Information	
Beam angle of light source	114 °
Light source color	840 neutral white
Light source replaceable	Yes
Number of gear units	1 unit
Driver/power unit/transformer	Power supply unit with DALI interface
Driver included	Yes
Optic type	Medium beam
Luminaire light beam spread	42° x 44°
Control interface	DALI

Connection	Plug-in connector 5-pole Wieland/Adels compatible
Cable	Cord with plug Wieland/Adels compatible 5-pole
Protection class IEC	Safety class I
Glow-wire test	Temperature 850 °C, duration 5 s
Flammability mark	For mounting on easily flammable surfaces
CE mark	CE mark
ENEC mark	ENEC mark

GentleSpace Gen3

Warranty period	5 years
Constant light output	No
Number of products on MCB of 16 A type B	12
RoHS mark	RoHS mark
Product family code	BY480P [New Highbay]
Unified glare rating CEN	22

Operating and Electrical

Input Voltage	220-240 V
Input Frequency	50 to 60 Hz
Inrush current	4.8 A
Inrush time	2.3 ms
Power Factor (Min)	0.9

Controls and Dimming

Dimmable	Yes

Mechanical and Housing

Housing Material	Aluminum
Reflector material	-
Optic material	Acrylate
Optical cover/lens material	Glass
Fixation material	Steel
Optical cover/lens finish	Clear
Overall length	460 mm
Overall width	410 mm
Overall height	80 mm
Color	Silver

Approval and Application

Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK07 [2 J reinforced]

Initial Performance (IEC Compliant)

Initial luminous flux (system flux)	17000 lm
Luminous flux tolerance	+/-10%
Initial LED luminaire efficacy	142 lm/W
Init. Corr. Color Temperature	4000 K
Init. Color Rendering Index	≥80
Initial chromaticity	(0.38, 0.38) SDCM <3
Initial input power	120 W
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 50000 h	5 %
Median useful life L70B50	100000 h
Median useful life L80B50	100000 h
Median useful life L90B50	50000 h
Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance at median useful life* 50000 h	L90
Lumen maintenance at median useful life* 100000 h	L80

Application Conditions

Ambient temperature range	-30 to +45 °C
Performance ambient temperature Tq	45 °C
Maximum dim level	10%
Suitable for random switching	No

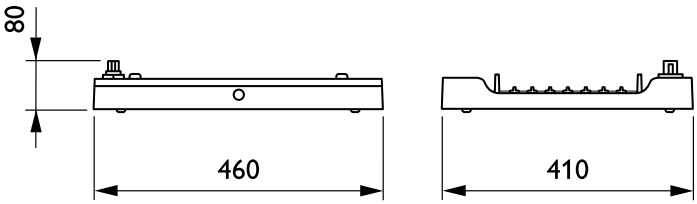
Product Data

Full product code	871869940736000
Order product name	BY480P LED170S/840 PSD WB GC SI
EAN/UPC - Product	8718699407360
Order code	910500465542
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	1
Material Nr. (12NC)	910500465542
Net Weight (Piece)	7.900 kg



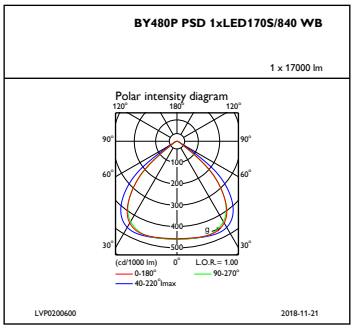
GentleSpace Gen3

Dimensional drawing

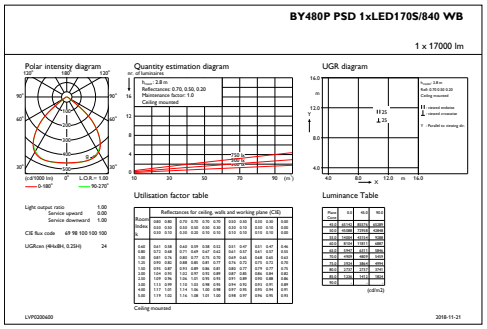


GentleSpace gen3 BY480P-BY483P

Photometric data



IFPC1_BY480PPSD1xLED170S840WB



IFGU1_BY480PPSD1xLED170S840WB

© 2019 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.