



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

GentleSpace Gen3

The GentleSpace gen3 provides a smart combination of versatility with high efficiency, connectivity options and reliability. It provides a wide variety of optics, beam angles (from very narrow to wide) and lumen packages, each delivering best-in-class quality of light for enhanced safety, productivity and comfort. With the 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 a pre-mounted IP65 connector enables quick-and-easy installation. You can choose various cover materials and special variants for extreme temperatures (XT), hazardous areas (ATEX 2/22) or sports applications. In addition, the GentleSpace gen3 also provides the option of advanced connectivity and is ready to be connected to an IoT-based system and software applications, such as Interact Industry. Created with circularity principles in mind, the GentleSpace is a serviceable luminaire with all the information available via the 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, the GentleSpace gen3 is the ideal solution for your application.

Benefits

- High-quality visibility combined with great uniformity and reduced glare
- A robust and reliable solution for a long service life
- A highly efficient solution, offering an attractive total cost of ownership
- Flexibility enabled by a high degree of adaptability to changing application needs
- Ready to be connected to existing and upcoming system and cloud based IoT software applications
- Extensive application coverage including food production, manufacturing with different ceiling height, hallways
- Integrated 3 hour emergency lighting options available
- Certified option available for safe lighting in ATEX 2/22 explosive zones
- Ideal for indoor sports centres with both a swimming pool and ball proof certified version available

Features

- High efficiency (HE) of up to 174 lm/W
- Extreme temperature version (XT) up to 70 Degrees Celsius
- Long service life of the L80 at 100 K hrs
- Detachable mounting system for ease of installation
- Fully compliant with EN-12464-1; low-glare rating and colour rendering of ≥ 80
- Optional dust cover to meet the hygienic requirements of the food & beverage industry
- Suitable for new builds or point-for-point replacement of HPI 250 W, HPL 400 W or HPI 400 W, reducing energy consumption by up to 65%
- Wide variety of optics to meet application requirements, also with the option of adjustable optics variant with the flexibility to shift from NB to MB to WB with an easy adjustment mechanism
- Safety Class I or II versions available
- Interact Industry ready and Philips GreenWarehouse ready options
- Optional 3 hour emergency versions available

Application

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

Versions

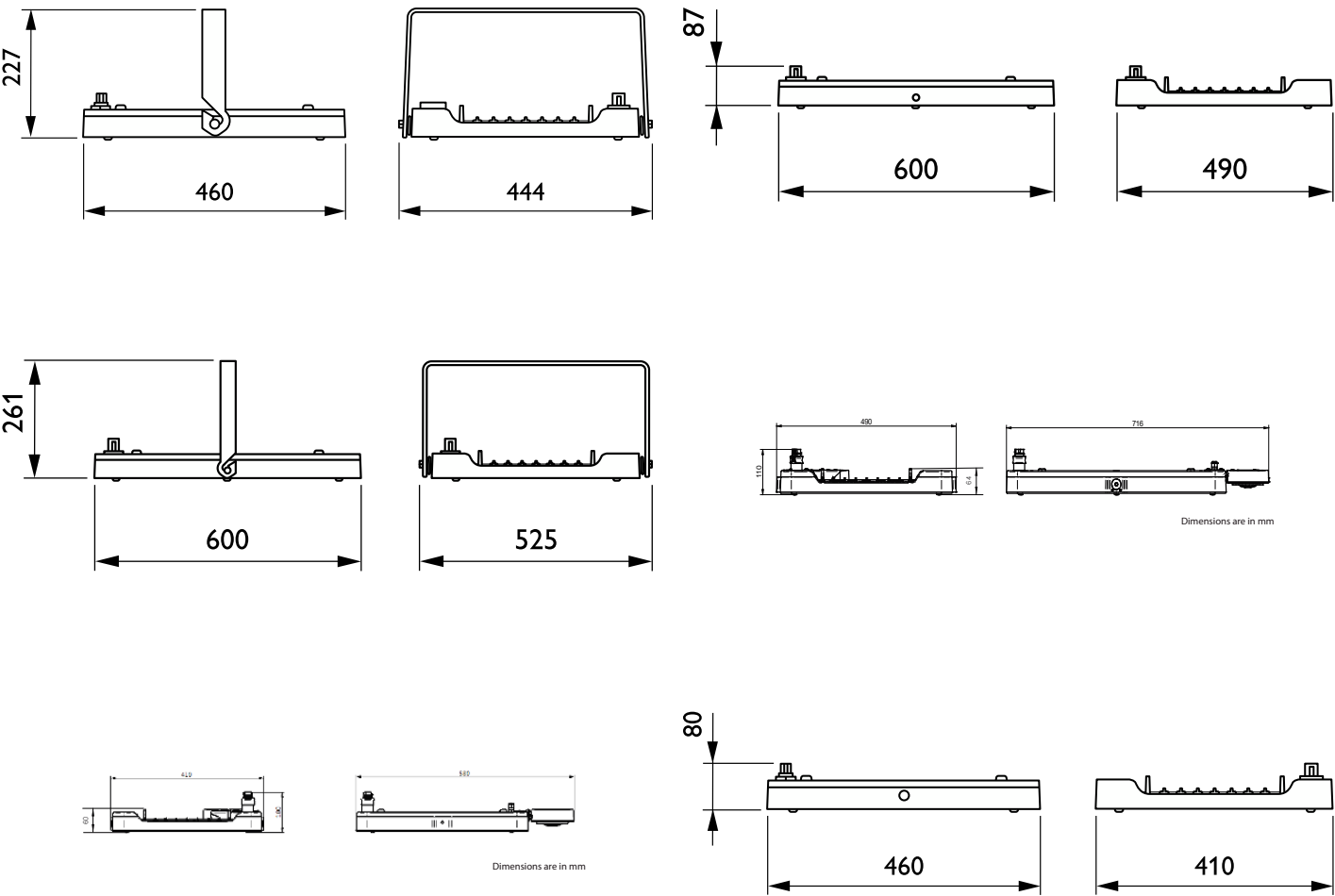


GentleSpace Gen3 BY481 WH



GentleSpace Gen3 BY481X-IRE

Dimensional drawing



General Information

CE mark	Yes
Driver included	Yes
ENEC mark	ENEC mark
Flammability mark	-
Light source replaceable	Yes
Number of gear units	Unit

Light Technical

Beam angle of light source	114 degree(s)
Correlated Colour Temperature	4000 K
Colour rendering index (CRI)	>80

Operating and Electrical

Input Voltage	220-240 V
Line Frequency	50 to 60 Hz

Controls and Dimming

Dimmable	Yes
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Mechanical and Housing

Housing Colour	Silver
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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	Glow-wire test	Embedded control	Product family code
40752000	BY480P LED170S/840 PSD WB GC SI BR	Temperature 650 °C, duration 30 s	-	BY480P
40755100	BY480P LED130S/840 PSD MB GC SI BR	Temperature 650 °C, duration 30 s	-	BY480P
40766700	BY480P LED130S/840 PSD WB GC SI BR	Temperature 650 °C, duration 30 s	-	BY480P
40779700	BY480P LED170S/840 PSD MB GC SI BR	Temperature 650 °C, duration 30 s	-	BY480P
40784100	BY480P LED130S/840 PSD HRO GC SI BR	Temperature 650 °C, duration 30 s	-	BY480P
40832900	BY481P LED350S/840 PSD WB GC SI ELD3	Temperature 850 °C, duration 30 s	-	BY481P
40733900	BY480P LED130S/840 PSD WB GC SI	Temperature 650 °C, duration 30 s	-	BY480P
40736000	BY480P LED170S/840 PSD WB GC SI	Temperature 650 °C, duration 30 s	-	BY480P
40738400	BY480P LED130S/840 PSD MB GC SI	Temperature 650 °C, duration 30 s	-	BY480P
40739100	BY480P LED170S/840 PSD HRO GC SI	Temperature 650 °C, duration 30 s	-	BY480P
40742100	BY480P LED130S/840 PSD HRO GC SI	Temperature 650 °C, duration 30 s	-	BY480P
40745200	BY480P LED170S/840 PSD MB GC SI	Temperature 650 °C, duration 30 s	-	BY480P
98114300	BY480X LED170S/840 SIA WB GC SI H4	Temperature 650 °C, duration 30 s	Sensor SNH (R) 210	BY480X
98115000	BY481X LED250S/840 SIA WB GC SI H4	Temperature 650 °C, duration 30 s	Sensor SNH (R) 210	BY481X
40750600	BY481P LED250S/840 PSD MB GC SI BR	Temperature 650 °C, duration 30 s	-	BY481P
40758200	BY481P LED250S/840 PSD WB GC SI BR	Temperature 650 °C, duration 30 s	-	BY481P
40786500	BY481P LED250S/840 PSD HRO GC SI BR	Temperature 650 °C, duration 30 s	-	BY481P
40790200	BY481P LED350S/840 PSD MB GC SI BR	Temperature 650 °C, duration 30 s	-	BY481P
40801500	BY481P LED350S/840 PSD WB GC SI BR	Temperature 650 °C, duration 30 s	-	BY481P
40730800	BY481P LED250S/840 PSD WB GC SI	Temperature 650 °C, duration 30 s	-	BY481P
40731500	BY481P LED250S/840 PSD MB GC SI	Temperature 650 °C, duration 30 s	-	BY481P
40732200	BY481P LED350S/840 PSD MB GC SI	Temperature 650 °C, duration 30 s	-	BY481P
40741400	BY481P LED250S/840 PSD WB PC SI	Temperature 650 °C, duration 30 s	-	BY481P
40743800	BY481P LED350S/840 PSD WB GC SI	Temperature 650 °C, duration 30 s	-	BY481P

Order Code	Full Product Name	Glow-wire test	Embedded control	Product family code
40763600	BY481P LED250S/840 PSD HRO GC SI	Temperature 650 °C, duration 30 s	-	BY481P
40767400	BY481P LED350S/840 PSD HRO GC SI	Temperature 650 °C, duration 30 s	-	BY481P
40768100	BY481P LED350S/840 PSD NB GC SI	Temperature 650 °C, duration 30 s	-	BY481P

Light Technical (1/2)

Order Code	Full Product Name	Luminous efficacy (rated) (nom.)	Luminous Flux	Optic type	Flickering value (PstLM)
40752000	BY480P LED170S/840 PSD WB GC SI BR	150 lm/W	17,000 lm	Wide beam	0.12
40755100	BY480P LED130S/840 PSD MB GC SI BR	152 lm/W	13,000 lm	Medium beam	0.12
40766700	BY480P LED130S/840 PSD WB GC SI BR	152 lm/W	13,000 lm	Wide beam	0.12
40779700	BY480P LED170S/840 PSD MB GC SI BR	150 lm/W	17,000 lm	Medium beam	0.12
40784100	BY480P LED130S/840 PSD HRO GC SI BR	152 lm/W	13,000 lm	High-rack optic	0.12
40832900	BY481P LED350S/840 PSD WB GC SI ELD3	145 lm/W	35,000 lm	Wide beam	0.22
40733900	BY480P LED130S/840 PSD WB GC SI	152 lm/W	13,000 lm	Wide beam	0.12
40736000	BY480P LED170S/840 PSD WB GC SI	150 lm/W	17,000 lm	Wide beam	0.12
40738400	BY480P LED130S/840 PSD MB GC SI	152 lm/W	13,000 lm	Medium beam	0.12
40739100	BY480P LED170S/840 PSD HRO GC SI	150 lm/W	17,000 lm	High-rack optic	0.12
40742100	BY480P LED130S/840 PSD HRO GC SI	152 lm/W	13,000 lm	High-rack optic	0.12
40745200	BY480P LED170S/840 PSD MB GC SI	150 lm/W	17,000 lm	Medium beam	0.12

Order Code	Full Product Name	Luminous efficacy (rated) (nom.)	Luminous Flux	Optic type	Flickering value (PstLM)
98114300	BY480X LED170S/840 SIA WB GC SI H4	150 lm/W	17,000 lm	Wide beam	1
98115000	BY481X LED250S/840 SIA WB GC SI H4	160 lm/W	25,000 lm	Wide beam	1
40750600	BY481P LED250S/840 PSD MB GC SI BR	160 lm/W	25,000 lm	Medium beam	0.12
40758200	BY481P LED250S/840 PSD WB GC SI BR	160 lm/W	25,000 lm	Wide beam	0.12
40786500	BY481P LED250S/840 PSD HRO GC SI BR	160 lm/W	25,000 lm	High-rack optic	0.12
40790200	BY481P LED350S/840 PSD MB GC SI BR	148 lm/W	35,000 lm	Medium beam	0.22
40801500	BY481P LED350S/840 PSD WB GC SI BR	148 lm/W	35,000 lm	Wide beam	0.22
40730800	BY481P LED250S/840 PSD WB GC SI	160 lm/W	25,000 lm	Wide beam	0.12
40731500	BY481P LED250S/840 PSD MB GC SI	160 lm/W	25,000 lm	Medium beam	0.12
40732200	BY481P LED350S/840 PSD MB GC SI	148 lm/W	35,000 lm	Medium beam	0.22
40741400	BY481P LED250S/840 PSD WB PC SI	160 lm/W	25,000 lm	Wide beam	0.12
40743800	BY481P LED350S/840 PSD WB GC SI	148 lm/W	35,000 lm	Wide beam	0.22

Order Code	Full Product Name	Luminous efficacy	Luminous	Flickering value	
		(rated) (nom.)	Flux	Optic type	(PstLM)
40763600	BY481P LED250S/840 PSD HRO GC SI	160 lm/W	25,000 lm	High-rack optic	0.12
40767400	BY481P LED350S/840 PSD HRO GC SI	148 lm/W	35,000 lm	High-rack optic	0.22

Order Code	Full Product Name	Luminous efficacy	Luminous	Flickering value	
		(rated) (nom.)	Flux	Optic type	(PstLM)
40768100	BY481P LED350S/840 PSD NB GC SI	148 lm/W	35,000 lm	Narrow beam	0.22

Light Technical (2/2)

Order Code	Full Product Name	Stroboscopic effect
40752000	BY480P LED170S/840 PSD WB GC SI BR	0.07
40755100	BY480P LED130S/840 PSD MB GC SI BR	0.07
40766700	BY480P LED130S/840 PSD WB GC SI BR	0.07
40779700	BY480P LED170S/840 PSD MB GC SI BR	0.07
40784100	BY480P LED130S/840 PSD HRO GC SI BR	0.07
40832900	BY481P LED350S/840 PSD WB GC SI ELD3	0.01
40733900	BY480P LED130S/840 PSD WB GC SI	0.07
40736000	BY480P LED170S/840 PSD WB GC SI	0.07
40738400	BY480P LED130S/840 PSD MB GC SI	0.07
40739100	BY480P LED170S/840 PSD HRO GC SI	0.07
40742100	BY480P LED130S/840 PSD HRO GC SI	0.07
40745200	BY480P LED170S/840 PSD MB GC SI	0.07
98114300	BY480X LED170S/840 SIA WB GC SI H4	0.4
98115000	BY481X LED250S/840 SIA WB GC SI H4	0.4

Order Code	Full Product Name	Stroboscopic effect
40750600	BY481P LED250S/840 PSD MB GC SI BR	0.07
40758200	BY481P LED250S/840 PSD WB GC SI BR	0.07
40786500	BY481P LED250S/840 PSD HRO GC SI BR	0.07
40790200	BY481P LED350S/840 PSD MB GC SI BR	0.01
40801500	BY481P LED350S/840 PSD WB GC SI BR	0.01
40730800	BY481P LED250S/840 PSD WB GC SI	0.07
40731500	BY481P LED250S/840 PSD MB GC SI	0.07
40732200	BY481P LED350S/840 PSD MB GC SI	0.01
40741400	BY481P LED250S/840 PSD WB PC SI	0.07
40743800	BY481P LED350S/840 PSD WB GC SI	0.01
40763600	BY481P LED250S/840 PSD HRO GC SI	0.07
40767400	BY481P LED350S/840 PSD HRO GC SI	0.01
40768100	BY481P LED350S/840 PSD NB GC SI	0.01

Operating and Electrical

Order Code	Full Product Name	Power Consumption
40752000	BY480P LED170S/840 PSD WB GC SI BR	113 W
40755100	BY480P LED130S/840 PSD MB GC SI BR	85 W
40766700	BY480P LED130S/840 PSD WB GC SI BR	85 W
40779700	BY480P LED170S/840 PSD MB GC SI BR	113 W
40784100	BY480P LED130S/840 PSD HRO GC SI BR	85 W
40832900	BY481P LED350S/840 PSD WB GC SI ELD3	240 W
40733900	BY480P LED130S/840 PSD WB GC SI	85 W
40736000	BY480P LED170S/840 PSD WB GC SI	113 W
40738400	BY480P LED130S/840 PSD MB GC SI	85 W
40739100	BY480P LED170S/840 PSD HRO GC SI	113 W
40742100	BY480P LED130S/840 PSD HRO GC SI	85 W
40745200	BY480P LED170S/840 PSD MB GC SI	113 W
98114300	BY480X LED170S/840 SIA WB GC SI H4	113 W
98115000	BY481X LED250S/840 SIA WB GC SI H4	156 W

Order Code	Full Product Name	Power Consumption
40750600	BY481P LED250S/840 PSD MB GC SI BR	156 W
40758200	BY481P LED250S/840 PSD WB GC SI BR	156 W
40786500	BY481P LED250S/840 PSD HRO GC SI BR	156 W
40790200	BY481P LED350S/840 PSD MB GC SI BR	235 W
40801500	BY481P LED350S/840 PSD WB GC SI BR	235 W
40730800	BY481P LED250S/840 PSD WB GC SI	156 W
40731500	BY481P LED250S/840 PSD MB GC SI	156 W
40732200	BY481P LED350S/840 PSD MB GC SI	235 W
40741400	BY481P LED250S/840 PSD WB PC SI	156 W
40743800	BY481P LED350S/840 PSD WB GC SI	235 W
40763600	BY481P LED250S/840 PSD HRO GC SI	156 W
40767400	BY481P LED350S/840 PSD HRO GC SI	235 W
40768100	BY481P LED350S/840 PSD NB GC SI	235 W

Temperature

Order Code	Full Product Name	Ambient temperature range
40752000	BY480P LED170S/840 PSD WB GC SI BR	-30 to +45 °C
40755100	BY480P LED130S/840 PSD MB GC SI BR	-30 to +45 °C
40766700	BY480P LED130S/840 PSD WB GC SI BR	-30 to +45 °C

Order Code	Full Product Name	Ambient temperature range
40779700	BY480P LED170S/840 PSD MB GC SI BR	-30 to +45 °C
40784100	BY480P LED130S/840 PSD HRO GC SI BR	-30 to +45 °C
40832900	BY481P LED350S/840 PSD WB GC SI ELD3	0 to +25 °C

Order Code	Full Product Name	Ambient temperature range
40733900	BY480P LED130S/840 PSD WB GC SI	-30 to +45 °C
40736000	BY480P LED170S/840 PSD WB GC SI	-30 to +45 °C
40738400	BY480P LED130S/840 PSD MB GC SI	-30 to +45 °C
40739100	BY480P LED170S/840 PSD HRO GC SI	-30 to +45 °C
40742100	BY480P LED130S/840 PSD HRO GC SI	-30 to +45 °C
40745200	BY480P LED170S/840 PSD MB GC SI	-30 to +45 °C
98114300	BY480X LED170S/840 SIA WB GC SI H4	-30 to +45 °C
98115000	BY481X LED250S/840 SIA WB GC SI H4	-30 to +45 °C
40750600	BY481P LED250S/840 PSD MB GC SI BR	-30 to +45 °C
40758200	BY481P LED250S/840 PSD WB GC SI BR	-30 to +45 °C
40786500	BY481P LED250S/840 PSD HRO GC SI BR	-30 to +45 °C

Order Code	Full Product Name	Ambient temperature range
40790200	BY481P LED350S/840 PSD MB GC SI BR	-30 to +45 °C
40801500	BY481P LED350S/840 PSD WB GC SI BR	-30 to +45 °C
40730800	BY481P LED250S/840 PSD WB GC SI	-30 to +45 °C
40731500	BY481P LED250S/840 PSD MB GC SI	-30 to +45 °C
40732200	BY481P LED350S/840 PSD MB GC SI	-30 to +45 °C
40741400	BY481P LED250S/840 PSD WB PC SI	-30 to +45 °C
40743800	BY481P LED350S/840 PSD WB GC SI	-30 to +45 °C
40763600	BY481P LED250S/840 PSD HRO GC SI	-30 to +45 °C
40767400	BY481P LED350S/840 PSD HRO GC SI	-30 to +45 °C
40768100	BY481P LED350S/840 PSD NB GC SI	-30 to +45 °C

Approval and Application

Order Code	Full Product Name	Mech. impact protection code
40752000	BY480P LED170S/840 PSD WB GC SI BR	IK07
40755100	BY480P LED130S/840 PSD MB GC SI BR	IK07
40766700	BY480P LED130S/840 PSD WB GC SI BR	IK07
40779700	BY480P LED170S/840 PSD MB GC SI BR	IK07
40784100	BY480P LED130S/840 PSD HRO GC SI BR	IK07
40832900	BY481P LED350S/840 PSD WB GC SI ELD3	IK07
40733900	BY480P LED130S/840 PSD WB GC SI	IK07
40736000	BY480P LED170S/840 PSD WB GC SI	IK07
40738400	BY480P LED130S/840 PSD MB GC SI	IK07
40739100	BY480P LED170S/840 PSD HRO GC SI	IK07
40742100	BY480P LED130S/840 PSD HRO GC SI	IK07
40745200	BY480P LED170S/840 PSD MB GC SI	IK07
98114300	BY480X LED170S/840 SIA WB GC SI H4	IK02
98115000	BY481X LED250S/840 SIA WB GC SI H4	IK02

Order Code	Full Product Name	Mech. impact protection code
40750600	BY481P LED250S/840 PSD MB GC SI BR	IK07
40758200	BY481P LED250S/840 PSD WB GC SI BR	IK07
40786500	BY481P LED250S/840 PSD HRO GC SI BR	IK07
40790200	BY481P LED350S/840 PSD MB GC SI BR	IK07
40801500	BY481P LED350S/840 PSD WB GC SI BR	IK07
40730800	BY481P LED250S/840 PSD WB GC SI	IK07
40731500	BY481P LED250S/840 PSD MB GC SI	IK07
40732200	BY481P LED350S/840 PSD MB GC SI	IK07
40741400	BY481P LED250S/840 PSD WB PC SI	IK08
40743800	BY481P LED350S/840 PSD WB GC SI	IK07
40763600	BY481P LED250S/840 PSD HRO GC SI	IK07
40767400	BY481P LED350S/840 PSD HRO GC SI	IK07
40768100	BY481P LED350S/840 PSD NB GC SI	IK07

