



GentleSpace – High-quality, efficient lighting engineered for excellence in tough environments

GentleSpace gen4 is the ultimate lighting solution for industrial settings and indoor sports facilities. It exceeds expectations by ensuring superior light quality, improving employee safety and productivity, and complying with all the relevant safety regulations. Engineered for longevity, GentleSpace gen4 reduces the frequency, hassle, and costs of maintenance, making it ideal for high-ceiling installations. Its energy-efficient design cuts operational expenses, offering maximum application efficiency and an attractive total cost of ownership (TCO). This product range offers a wide variety of optics, beam angles (from very narrow to wide), lumen packages, and connectivity options. With GentleSpace gen4 you can easily create a tailor-made lighting solution for every high-ceiling application. Its modern, flat design makes it easier to install, clean, and maintain. The single optical window design provides superior visual performance. A variety of mounting possibilities and connectors, like the pre-mounted IP65 connector, enable quick and easy installation. The robust design

allows to withstand harsh conditions in all sorts of environments. You can choose between various cover materials, including specialized variants for extreme temperatures (XT), hazardous areas (ATEX 2/22), and sports applications. Additionally, GentleSpace gen4 offers advanced connectivity options. It's ready to use in connected lighting systems like Interact. Reliable, high-efficiency lighting with smart connectivity – a bright choice for a better future. Embrace sustainability with GentleSpace gen4, the highbay lighting solution that complies with the principles of the circular economy by prioritizing durability and recyclability. The luminaire is serviceable, with all the information available at your fingertips via the Signify Service tag app. Whether you are looking for a reliable “fit and forget” solution or one that can be adapted and controlled after installation, GentleSpace gen4 is the right choice for you.

Benefits

- Robust design, created to withstand harsh conditions in all sorts of environments
- Compact product architecture, resistant to high impact (IK08), water, and dust (IP65)
- Excellent light uniformity and low glare for optimized working conditions with improved safety and greater visual comfort
- Attractive total cost of ownership thanks to its high luminous efficacy (up to 189 lm/W), long lifetime (100,000 hours @L85), and optimized lighting plan that requires fewer luminaires per application
- Easy installation. Single-piece, lighter architecture (approximately 20% lighter than the previous generation) with multiple mounting options for flexible installation in various environments and conditions
- Interact Ready connectivity for smart lighting. Connect to the cloud and discover additional ways to save energy through optimized efficiency, motion sensing and daylight harvesting, as well as improved lighting management, productivity, and safety
- Engineered with sustainability in mind. Meets lighting for circularity criteria to help you achieve your sustainability goals

Applications

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

Features

- Exceptional performance with UltraEfficient (UE, 189 lm/W) and High-Efficiency (HE, 183 lm/W) versions
- Long service life of 100,000 hours at L85
- High water (IP65) and impact protection (IK08)
- Wide variety of optics (wide beam/medium beam/narrow beam/extra narrow beam/high-rack/asymmetrical)
- Special options for a broad range of applications: Extreme version (XT) up to 70°C, Safety Class I or II, swimming pool protected version (SWP), marine protection (MSP), VDE certified ball-proof (BP) option, ATEX 2/22 certified version. Tested against a broad list of chemical substances that may be present in industrial settings
- Detachable mounting system for easy installation, including various mounting options and connectors (IP65 pre-mounted connector, or fly-wire cable)
- Robust, die-cast aluminum housing with efficient thermal management and flat front and rear design for easy installation, cleaning, and maintenance
- Single LED module design for superior light quality
- Access to the Signify Service tag app with service and maintenance information

Versions



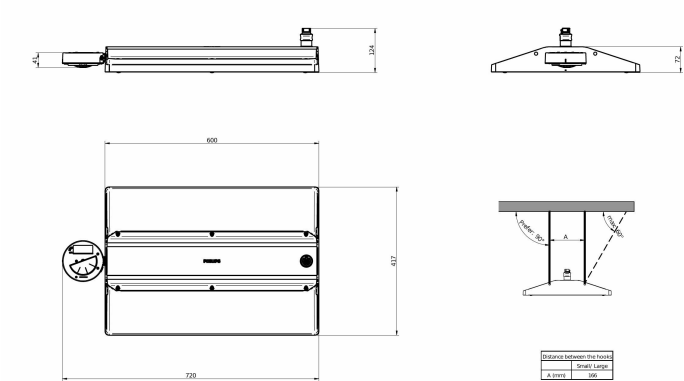
GentleSpace gen4-large,
suspension, Interact ready



GentleSpace gen4-large,
suspension

Dimensional drawing

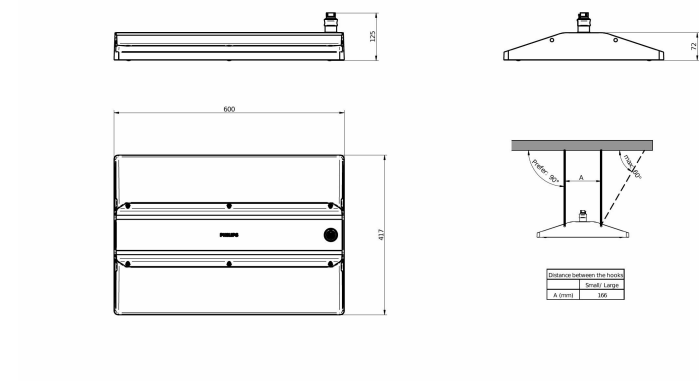
BY581X suspended



With Wieland connector on a cable or free cable finish, cable length is: 0.5m or 1m or 1.5m. or 2m

BY581X 250S/840 SIA HE WB GC SI H4

BY581P, BY583P suspended



With Wieland connector on a cable or free cable finish, cable length is: 0.5m or 1m or 1.5m. or 2m

BY581P 250S/840 DIA WB PC SI

Product details



GentleSpace gen4-large,
suspension

General Information

Number of gear units	1 unit
Driver included	Yes
Service tag	Yes

Light Technical

Luminous Flux	25,000 lm
Color rendering index (CRI)	>80
Optic type	Wide beam

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Protection class IEC	Safety class I

Controls and Dimming

Dimmable	Yes
Maximum dim level	10%
Embedded control	Sensor SNH (R) 210

Mechanical and Housing

Housing Color	Silver
Ingress protection code	IP65 [Dust penetration-protected, jet-proof]

Emergency Operation

Central Emergency	No
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Approval and Application

Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on easily flammable surfaces
CE mark	Yes
ENEC mark	ENEC mark
Ambient temperature range	-30 to +55 °C

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
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Light Technical

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)
910505102862	BY581X 250S/840 SIA HE WB GC SI H4	4000 K	184 lm/W
910505102887	BY581P 250S/840 DIA WB PC SI	4000 K	162 lm/W
910505102933	BY581P 250S/830 DIA HE WB GC SI	3000 K	171 lm/W

Operating and Electrical

Order Code	Full Product Name	Power Consumption	Suitable for random switching
910505102862	BY581X 250S/840 SIA HE WB GC SI H4	136 W	Yes (relates to presence/ movement detection and daylight harvesting)
910505102887	BY581P 250S/840 DIA WB PC SI	154 W	No
910505102933	BY581P 250S/830 DIA HE WB GC SI	146 W	No

Mechanical and Housing

Order Code	Full Product Name	Mech. impact protection code
910505102862	BY581X 250S/840 SIA HE WB GC SI H4	IK03
910505102887	BY581P 250S/840 DIA WB PC SI	IK07
910505102933	BY581P 250S/830 DIA HE WB GC SI	IK07

Approval and Application

Order Code	Full Product Name	Flickering value (PstLM) - Flickering value as per EN 61000-3-3	Stroboscopic effect visibility measure (SVM)
910505102862	BY581X 250S/840 SIA HE WB GC SI H4	1	0.4
910505102887	BY581P 250S/840 DIA WB PC SI	0.12	0.07
910505102933	BY581P 250S/830 DIA HE WB GC SI	0.12	0.07

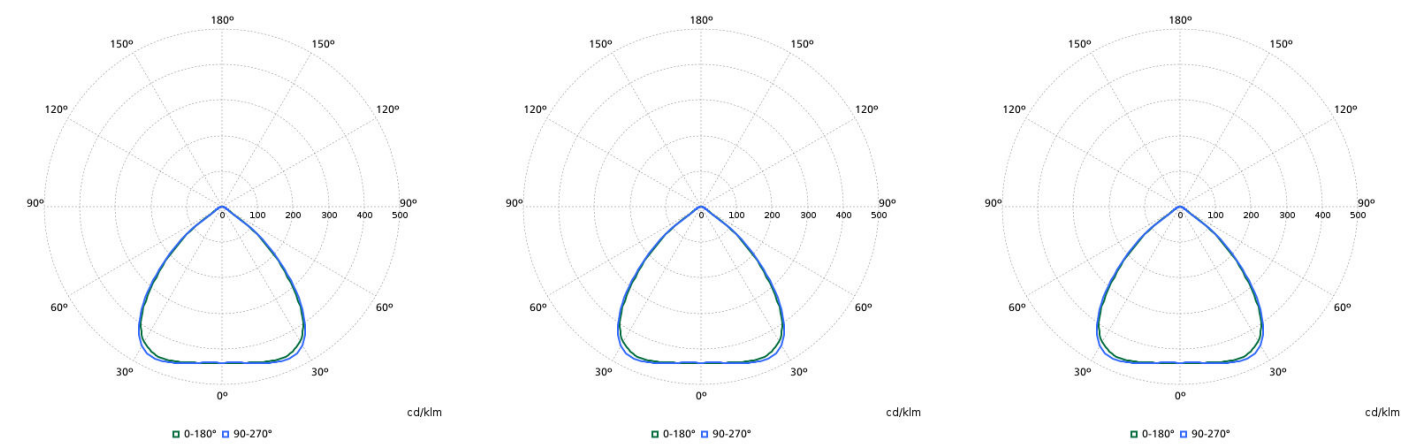
Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial chromaticity
910505102862	BY581X 250S/840 SIA HE WB GC SI H4	(0.383, 0.377) SDCM 3
910505102887	BY581P 250S/840 DIA WB PC SI	(0.380, 0.375) SDCM 3
910505102933	BY581P 250S/830 DIA HE WB GC SI	(0.435, 0.401) SDCM 3

Product Data

Order Code	Full Product Name	Product family code
910505102862	BY581X 250S/840 SIA HE WB GC SI H4	BY581X
910505102887	BY581P 250S/840 DIA WB PC SI	BY581P
910505102933	BY581P 250S/830 DIA HE WB GC SI	BY581P

Polar normal diagrams



BY580PI - 910505102933

BY580PI - 910505102862

BY580PI - 910505102887

