

# GentleSpace Gen3

## BY481P LED250S/840 PSD HRO PC SI

GentleSpace Gen3, 156 W, 25000 lm, 4000 K, DALI, High-rack optic, IP65, IK08

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

### Product data

| General Information | |
|---|---|
| **Light source replaceable** | Yes |
| **Number of gear units** | 1 unit |
| **Driver included** | Yes |
| **Service tag** | Yes |
| **Product family code** | BY481P [Gentlespace gen3 Large] |

| | |
|---|---|
| **Lighting Technology** | LED |
| **Value ladder** | Specification |
| **CE mark** | Yes |
| **Warranty period** | 5 years |
| **Flammability mark** | - |
| **ENEC mark** | ENEC mark |

# GentleSpace Gen3

| | |
|---|---|
| **Glow-wire test** | Temperature 650 °C, duration 30 s |
| **EU RoHS compliant** | Yes |

## Light Technical

| | |
|---|---|
| **Luminous Flux** | 25,000 lm |
| **Correlated Color Temperature (Nom)** | 4000 K |
| **Luminous Efficacy (rated) (Nom)** | 160 lm/W |
| **Color rendering index (CRI)** | >80 |
| **Flickering value (PstLM) - Flickering value as per EN 61000-3-3** | 0.12 |
| **Stroboscopic effect visibility measure (SVM)** | 0.07 |
| **Beam angle of light source** | 114 degree(s) |
| **Light source color** | 840 neutral white |
| **Optic type** | High-rack optic |
| **Luminaire light beam spread** | 16° x 47° |
| **Unified glare rating CEN** | Not applicable |

## Operating and Electrical

| | |
|---|---|
| **Input Voltage** | 220-240 V |
| **Line Frequency** | 50 to 60 Hz |
| **Average CLO power consumption** | - W |
| **Inrush current** | 5.1 A |
| **Inrush time** | 76 ms |
| **Power Consumption** | 156 W |
| **Power Factor (Fraction)** | 0.9 |
| **Connection** | External connector |
| **Cable** | Cord with plug Wieland/Adels compatible 5-pole |
| **Number of products on MCB of 16 A type B** | 12 |

## Temperature

| | |
|---|---|
| **Ambient temperature range** | -30 to +45 °C |

## Controls and Dimming

| | |
|---|---|
| **Dimmable** | Yes |
| **Driver/power unit/transformer** | Power supply unit with DALI interface |
| **Control interface** | DALI |
| **Constant light output** | No |

## Mechanical and Housing

| | |
|---|---|
| **Housing Material** | Aluminum |
| **Reflector material** | - |
| **Optic material** | Polycarbonate |
| **Optical cover material** | Polycarbonate |
| **Fixation material** | Steel |
| **Housing Color** | Silver |
| **Optical cover finish** | Clear |

| | |
|---|---|
| **Overall length** | 600 mm |
| **Overall width** | 490 mm |
| **Overall height** | 110 mm |
| **Dimensions (Height x Width x Depth)** | 110 x 490 x 600 mm |

## Approval and Application

| | |
|---|---|
| **Ingress protection code** | IP65 [Dust penetration-protected, jet-proof] |
| **Mech. impact protection code** | IK08 [5 J vandal-protected] |
| **Sustainability rating** | Lighting for circularity |
| **Protection class IEC** | Safety class I |
| **Photobiological risk** | Photobiological risk group 1 @200mm to EN62778 |

## Initial Performance (IEC Compliant)

| | |
|---|---|
| **Luminous flux tolerance** | +/-10% |
| **Initial chromaticity** | (0.38, 0.38) SDCM <3 |
| **Power consumption tolerance** | +/-10% |

## Over Time Performance (IEC Compliant)

| | |
|---|---|
| **Control gear failure rate at median useful life 50000 h** | 5 % |
| **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

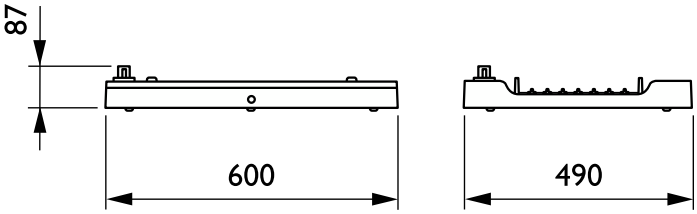
| | |
|---|---|
| **Performance ambient temperature Tq** | 45 °C |
| **Maximum dim level** | 10% |
| **Suitable for random switching** | No |

## Product Data

| | |
|---|---|
| **Order product name** | BY481P LED250S/840 PSD HRO PC SI |
| **Full product name** | BY481P LED250S/840 PSD HRO PC SI |
| **Full product code** | 871869940769800 |
| **Order code** | 40769800 |
| **Material Nr. (12NC)** | 910500465575 |
| **Numerator - Quantity Per Pack** | 1 |
| **EAN/UPC - Product/Case** | 8718699407698 |
| **Numerator - Packs per outer box** | 1 |
| **EAN/UPC - Case** | 8718699407698 |

# GentleSpace Gen3

## Dimensional drawing




© 2023 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.