



GentleSpace Gen3

BY481P LED250S/840 PSD HRO GC SI

New Highbay - 840 neutral white - Power supply unit with DALI interface - High-rack optic - 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 systems and software applications such as the Interact Industry. Overall, whether you are looking for a reliable 'fit and 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 | | Control interface | |
|-------------------------------|--|----------------------|---|
| Beam angle of light source | 114 ° | Control interface | DALI |
| Light source colour | 840 neutral white | Connection | Plug-in connector 5-pole Wieland/Adels compatible |
| Light source replaceable | Yes | Cable | Cord with plug Wieland/Adels compatible 5-pole |
| Number of gear units | 1 unit | Protection class IEC | Safety class I |
| Driver/power unit/transformer | PSD [Power supply unit with DALI interface] | Glow-wire test | Temperature 850 °C, duration 5 s |
| Driver included | Yes | Flammability mark | D [For mounting on easily flammable surfaces] |
| Optic type | HRO [High-rack optic] | CE mark | CE mark |
| Luminaire light beam spread | 16° x 47° | | |

GentleSpace Gen3

| | |
|---------------------------|-----------------------|
| ENEC mark | ENEC mark |
| Warranty period | 5 years |
| Constant light output | No |
| Number of products on MCB | 12 |
| RoHS mark | RoHS mark |
| Product Family Code | BY481P [New Highbay] |
| Unified glare rating CEN | 25 |

Operating and Electrical

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|---------------------|-------------|
| 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

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|----------|-----|
| Dimmable | Yes |
|----------|-----|

Mechanical and Housing

| | |
|-----------------------------|-----------|
| Housing material | Aluminium |
| Reflector material | - |
| Optic material | Acrylate |
| Optical cover/lens material | Glass |
| Fixation material | Steel |
| Optical cover/lens finish | Clear |
| Overall length | 600 mm |
| Overall width | 490 mm |
| Overall height | 85 mm |
| Colour | 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)

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|-------------------------|----------|
| Initial luminous flux | 25000 lm |
| Luminous flux tolerance | +/-10% |

| | |
|--------------------------------|----------------------|
| Initial LED luminaire efficacy | 154 lm/W |
| Init. Corr. colour temperature | 4000 K |
| Init. colour rendering index | ≥80 |
| Initial chromaticity | (0.38, 0.38) SDCM <3 |
| Initial input power | 162 W |
| Power consumption tolerance | +/-10% |

Over Time Performance (IEC Compliant)

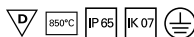
| | |
|--|----------|
| Control gear failure rate at median useful life 50000 h | 5 % |
| Median useful life L70B50 | 100000 h |
| Median useful life L80B50 | 100000 h |
| Median useful life L90B50 | 50000 h |
| Control gear failure rate at median useful life 100000 h | 10 % |
| Lumen maintenance at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

Application Conditions

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

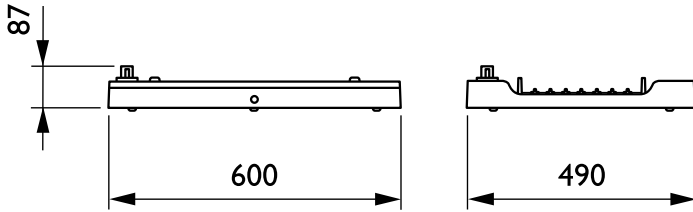
Product Data

| | |
|---------------------------------|----------------------------------|
| Full product code | 871869940763600 |
| Order product name | BY481P LED250S/840 PSD HRO GC SI |
| EAN/UPC – product | 8718699407636 |
| Order code | 40763600 |
| Numerator – quantity per pack | 1 |
| Numerator – packs per outer box | 1 |
| Material no. (12NC) | 910500465569 |
| Net weight (piece) | 12.000 kg |



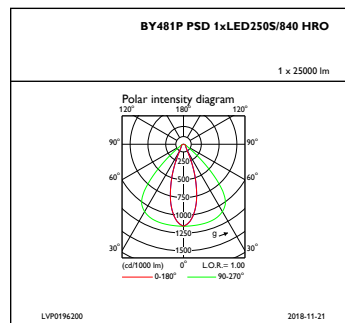
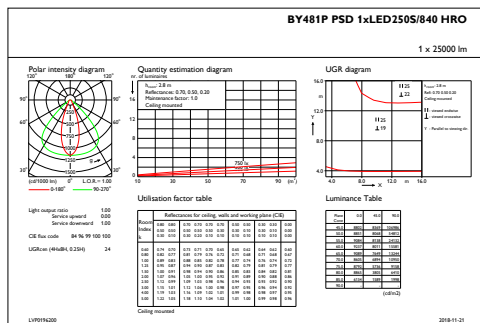
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Dimensional drawing



GentleSpace gen3 BY480P-BY483P

Photometric data



IFGU1_BY481PPSD1xLED250S840HRO

IFPC1_BY481PPSD1xLED250S840HRO

