# **PHILIPS** Lighting



# **GentleSpace Gen3**

# BY481P LED250S/840 PSD MB GC WH

GentleSpace Gen3, 156 W, 25000 lm, 4000 K, DALI, Medium beam, IP65, IK07

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

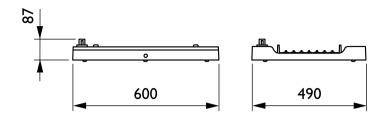
## GentleSpace Gen3

Club motionTemperature club e dutation so sLight TechnicalLuminous Flux25,000 lmCorrelated Color Temperature (Nom)4000 KLuminous Efficacy (rated) (Nom)160 lm//WColor rendering index (CRI)>80Flickering value (PstLM) - Flickering value as0.12per EN 61000-3-30.07Beam angle of light source114 degree(s)Light source color840 neutral whiteOptic typeMedium beamLuminaire light beam spread40° x 40°Unified glare rating CENNot applicableOperating and Electrical114Innut Nottage220-240 VLine Frequency50 to 60 HzAverage CLO power consumption-WInrush time76 msPower Factor (Fraction)0.9ConnectionExternal connectorCableCord with plug Wieland/Adels compatible 5-poleNumber of products on MCB of 16 A type B12Temperature-30 to +45 °CAmbient temperature range-30 to +45 °CDriver/power unit/transformerPower supply unit with DALI interfaceConstant light outputNoMechanical and HousingHousing MaterialHousing MaterialAluminumReflector material-Optic at cover materialSteelHousing ColorWhiteOptical cover finishClear	Glow-wire test	Temperature 650 °C, duration 30 s
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 oliz       0.12         per EN 6100-3-3       0.07         Beam angle of light source       114 degree(s)         Light source color       840 neutral white         Optic type       Medium beam         Luminaire light beam spread       40° x 40°         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       5.1A         Inrush current       5.6W         Power Consumption       9.9         Connection       External connector         Cable       Cord with plug Wieland/Adels         compatible 5-pole       No         Number of products on MCB of 16 A type B       12         Temperature       -30 to +45 °C         Controls and Dimming       Power supply unit with DALI interface         Driver/pow		
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Luminaire light beam spread40° × 40°Unified glare rating CENNot applicableOperating and ElectricalInput VoltageInput Voltage220-240 VLine Frequency50 to 60 HzAverage CLO power consumption- WInrush current5.1 AInrush time76 msPower Consumption156 WPower Consumption0.9ConnectionExternal connectorCableCord with plug Wieland/Adels compatible 5-poleNumber of products on MCB of 16 A type B12Temperature-30 to +45 °CAmbient temperature range-30 to +45 °CDinmableYesDriver/power unit/transformerPower supply unit with DALI interfaceControl interfaceDALIConstant light outputNoMechanical and Housing-Housing MaterialAluminumReflector material-Optical cover materialGlassFixation materialSteelHousing ColorWhite	Light source color	840 neutral white
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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 Consumption       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       -30 to +45 °C         Mobient temperature range       -30 to +45 °C         Controls and Dimming       Yes         Driver/power unit/transformer       Power supply unit with DALI interface         Control interface       DALI         Constant light output       No         Mechanical and Housing       Aluminum         Reflector material       -         Optic material       Glass         Fixation material       Steel         Housing Color       White	Luminaire light beam spread	40° x 40°
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 acver material Glass Fixation material Steel Housing Color White	Unified glare rating CEN	Not applicable
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 acver material Glass Fixation material Steel Housing Color White		
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Inrush time76 msPower Consumption156 WPower Factor (Fraction)0.9ConnectionExternal connectorCableCord with plug Wieland/Adels compatible 5-poleNumber of products on MCB of 16 A type B12Temperature-30 to +45 °CAmbient temperature range-30 to +45 °CDimmableYesDriver/power unit/transformerPower supply unit with DALI interfaceControl interfaceDALIConstant light outputNoMechanical and Housing-Housing MaterialAluminumReflector material-Optic materialSteelHousing ColorWhite	Average CLO power consumption	- W
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CableCord with plug Wieland/Adels compatible 5-poleNumber of products on MCB of 16 A type B12Number of products on MCB of 16 A type B12Temperature-30 to +45 °CAmbient temperature range-30 to +45 °CControls and DimmingYesDimmableYesDriver/power unit/transformerPower supply unit with DALI interfaceControl interfaceDALIConstant light outputNoMechanical and HousingAluminumReflector material-Optic materialGlassFixation materialSteelHousing ColorWhite	Power Factor (Fraction)	0.9
Number of products on MCB of 16 A type B       12         Temperature       -30 to +45 °C         Ambient temperature range       -30 to +45 °C         Controls and Dimming       Yes         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       Glass         Fixation material       Steel         Housing Color       White	Connection	External connector
Number of products on MCB of 16 A type B       12         Temperature       -30 to +45 °C         Ambient temperature range       -30 to +45 °C         Controls and Dimming       Yes         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       Glass         Fixation material       Steel         Housing Color       White	Cable	Cord with plug Wieland/Adels
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       Glass         Fixation material       Steel         Housing Color       White		compatible 5-pole
Ambient temperature range       -30 to +45 °C         Controls and Dimming       Yes         Dimmable       Yes         Driver/power unit/transformer       Power supply unit with DALI interface         Control interface       DALI         Constant light output       No         Mechanical and Housing       Housing Material         Reflector material       -         Optic material       Glass         Fixation material       Steel         Housing Color       White	Number of products on MCB of 16 A type B	12
Ambient temperature range       -30 to +45 °C         Controls and Dimming       Yes         Dimmable       Yes         Driver/power unit/transformer       Power supply unit with DALI interface         Control interface       DALI         Constant light output       No         Mechanical and Housing       Housing Material         Reflector material       -         Optic material       Glass         Fixation material       Steel         Housing Color       White		
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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     Glass       Fixation material     Steel       Housing Color     White	Controls and Dimming	
Control interface     DALI       Constant light output     No       Mechanical and Housing     .       Housing Material     Aluminum       Reflector material     -       Optic material     Glass       Fixation material     Steel       Housing Color     White	Dimmable	Yes
Constant light output     No       Mechanical and Housing       Housing Material     Aluminum       Reflector material     -       Optic material     Polycarbonate       Optical cover material     Glass       Fixation material     Steel       Housing Color     White	Driver/power unit/transformer	Power supply unit with DALI interface
Mechanical and Housing         Housing Material       Aluminum         Reflector material       -         Optic material       Polycarbonate         Optical cover material       Glass         Fixation material       Steel         Housing Color       White	Control interface	DALI
Housing MaterialAluminumReflector material-Optic materialPolycarbonateOptical cover materialGlassFixation materialSteelHousing ColorWhite	Constant light output	No
Housing MaterialAluminumReflector material-Optic materialPolycarbonateOptical cover materialGlassFixation materialSteelHousing ColorWhite		
Reflector material     -       Optic material     Polycarbonate       Optical cover material     Glass       Fixation material     Steel       Housing Color     White	Mechanical and Housing	
Optic material     Polycarbonate       Optical cover material     Glass       Fixation material     Steel       Housing Color     White		Aluminum
Optical cover material     Glass       Fixation material     Steel       Housing Color     White		-
Fixation material     Steel       Housing Color     White		
Housing Color White		
Optical cover finish Clear		
	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-
ingress protection code	proof]
Mech. impact protection code	IK07 [2 J reinforced]
Sustainability rating	Lighting for circularity
Protection class IEC	Safety class I
Photobiological risk	Photobiological risk group 1@200mm t
Photobiological fisk	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	5%
50000 h	5 /0
Control gear failure rate at median useful life	10 %
100000 h	
Lumen maintenance at median useful life*	L90
50000 h	
Lumen maintenance at median useful life*	L80
100000 k	190
100000 h	
Application Conditions	
	45 °C 10%
Application Conditions Performance ambient temperature Tq	45 °C
Application Conditions Performance ambient temperature Tq Maximum dim level	45 °C 10%
Application Conditions Performance ambient temperature Tq Maximum dim level	45 °C 10%
Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching	45 °C 10% No
Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data	45 °C 10%
Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name	45 °C 10% No BY481P LED250S/840 PSD MB GC WH
Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name	45 °C 10% No BY481P LED250S/840 PSD MB GC WH BY481P LED250S/840 PSD MB GC WH
Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code	45 °C 10% No BY481P LED250S/840 PSD MB GC WH 8Y481P LED250S/840 PSD MB GC WH 871869940757500
Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code Order code	45 °C 10% No BY481P LED250S/840 PSD MB GC WH BY481P LED250S/840 PSD MB GC WH 871869940757500 40757500
Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code Order code Material Nr. (12NC)	45 °C 10% No BY481P LED250S/840 PSD MB GC WH BY481P LED250S/840 PSD MB GC WH 871869940757500 40757500 910500465563
Application Conditions Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code Order code Material Nr. (12NC) Numerator - Quantity Per Pack	45 °C 10% No BY481P LED250S/840 PSD MB GC WH BY481P LED250S/840 PSD MB GC WH 871869940757500 40757500 910500465563 1

### GentleSpace Gen3

#### Dimensional drawing





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