CoreLine Value Highbay

BY100P LED100S/840 PSU WB

CoreLine Value Highbay, 77 W, 10500 lm, 4000 K, Wide beam, IP65, IK06

CoreLine Value High-bay is the right choice for projects where essential specification and ease of installation are key. It comes with a trusted, high light quality, good service lifetime, energy savings and less maintenance. CoreLine Value High-bay delivers clear benefits for the installer too. The luminaire can be installed on the existing grid, and electrical connection is straightforward – there is no need to open the luminaire for installation and the external IP65 connector makes things easy to handle. A selection of optional accessories are available, including reflectors and a bracket to further increase installation flexibility.

Product data

General Information		Luminous Efficacy (rated) (Nom)	136 lm/W
Light source replaceable	No	Color rendering index (CRI)	>80
Number of gear units	1 unit	Light source color	840 neutral white
Driver included	Yes	Optic type	Wide beam
Lighting Technology	LED	Luminaire light beam spread	90°
Value ladder	Performance	Unified glare rating CEN	28
Warranty period	5 years		
Sustainability rating	–		
		Operating and Electrical	
		Input Voltage	220 to 240 V
Light Technical		Line Frequency	50 or 60 Hz
Luminous Flux	10,500 lm	Inrush current	40 A
Saturated Red (R9)	<50	Inrush time	0.6 ms
Correlated Color Temperature (Nom)	4000 K	Power Consumption	77 W

CoreLine Value Highbay

Power Factor (Fraction)	0.95
Connection	Connection unit 3-pole
Cable	Cable 0.3 m with connector 3-pole
Number of products on MCB of 16 A type B	8
Suitable for random switching	No
Protection class IEC	Safety class I
Total harmonic distortion	15 %

Controls and Dimming

Dimmable	No
Driver/power unit/transformer	Power supply unit (On/Off)
Control interface	–
Constant light output	No

Mechanical and Housing

Housing Material	Aluminium die-cast ADC1 – alloy grade (EN AC-47100)
Reflector material	Polycarbonate
Optic material	Polycarbonate
Optical cover material	Polycarbonate
Fixation material	Steel
Housing Color	Gray
Optical cover finish	Matte
Overall height	89 mm
Overall diameter	278 mm
Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK06 [1 J]
Net Weight (Piece)	1.900 kg

Approval and Application

Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	–

CE mark	Yes
ENEC mark	–
Photobiological risk specification	0.4 m
EU RoHS compliant	Yes
Performance ambient temperature Tq	35 °C
Ambient temperature range	–20 to +45 °C

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(0.385, 0.380) SDCM<5
Power consumption tolerance	+/-10%
Standard Deviation of Colour Matching (McAdam ellipse)	SDCM≤5

Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 50000 h	5 %
Lumen maintenance at median useful life* 50000 h	L70

Product Data

Order product name	BY100P LED100S/840 PSU WB
Full product name	BY100P LED100S/840 PSU WB
Full product code	871951454298300
Order code	911401671107
Material Nr. (12NC)	911401671107
Numerator – Quantity Per Pack	1
EAN/UPC – Product/Case	8719514542983
Numerator – Packs per outer box	1
EAN/UPC – Case	8719514542983

Dimensional drawing

CoreLine Value Highbay

www.lighting.philips.com

2025, January 10 – data subject to change