SmartBright Highbay RCA

BY235P LED100/NW PSU NB RU

SmartBright Highbay RCA, 100 W, 10000 lm, 4000 K, 60°

SmartBright Highbay is a high efficient and reliable LED luminaire. Designed as the point to point replacement for HPI 250W/400W luminaires, it offers customers all the benefits of LED lighting – reduced energy consumption, longer service time and less maintenance.
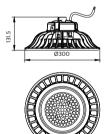
Product data

General Information

Light source replaceable	No
Number of gear units	1 unit
Driver included	Yes
Light source engine type	LED
Service tag	Yes
CE mark	CE mark
Warranty period	3 years
Flammability mark	–
ENEC mark	–
Glow-wire test	Temperature 650 °C, duration 5 s
EU RoHS compliant	No

Light Technical

Luminous Flux	10,000 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	100 lm/W
Color rendering index (CRI)	70

Beam angle of light source	– degree(s)
Light source color	840 neutral white
Optic type	–
Optical cover type	Polycarbonate bowl/cover foggy
Luminaire light beam spread	60°

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Initial CLO power consumption	– W
Average CLO power consumption	– W
Inrush current	40 A
Power Consumption	100 W
Power Factor (Fraction)	0.9
Connection	–
Cable	Cable 0.3 m without plug
Number of products on MCB of 16 A type B	–

SmartBright Highbay RCA

Temperature

Ambient temperature range	–20 to +45 °C

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	Aluminum die cast
Reflector material	–
Optic material	–
Optical cover material	Polycarbonate
Fixation material	Aluminum
Housing Color	Black
Optical cover finish	Clear
Overall height	131.5 mm
Overall diameter	300 mm

Approval and Application

Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK05 [0.7 J]
Protection class IEC	Safety class I

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/–10%

Initial chromaticity

Initial chromaticity	(0.38.0.38)SDCM<5
Power consumption tolerance	+/–10%

Over Time Performance (IEC Compliant)

Driver failure rate at 5000 h	0.01 %
Median useful life L70B50	30,000 hour(s)
Median useful life L80B50	20,000 hour(s)
Median useful life L90B50	10,000 hour(s)

Application Conditions

Maximum dim level	Not applicable

Product Data

Order product name	BY235P LED100/NW PSU NB RU
Full product name	BY235P LED100/NW PSU NB RU
Full product code	871016333890300
Order code	911401579651
Material Nr. (12NC)	911401579651
Numerator – Quantity Per Pack	1
EAN/UPC – Product/Case	8710163338903
Numerator – Packs per outer box	1
EAN/UPC – Case	8710163338903

Dimensional drawing

SmartBright Highbay RCA

www.lighting.philips.com

2023, December 5 – data subject to change