



Mini 300 LED gen2

BBP400 ECO121-3S/757 I PRW WH MDU PH CFR

Mini300 LED gen2, LED EconomyLine 12100 lm, Petrol rotational symmetric wide, Movement detection unit, Photocell included

With operating margins under pressure, companies are looking for ways to save energy. LED products like our Mini 300 LED gen2 luminaires are a perfect solution. Designed for petrol-station canopies and low-bay applications, these ultra-efficient retrofit fixtures offer outstanding light quality, effective thermal management, and a very long lifespan. Reduced maintenance, replacement and energy cost means a short payback period, making Mini 300 LED gen2 a shining example of how businesses can save money by opting for green products. A movement detector combined with a daylight sensor enables further energy savings. Our Mini 300 LED gen2 app gives users control in ways that are simply not possible with other luminaires — for instance, reading status and managing lighting from the floor by laptop or Smartphone via Bluetooth.

Product data

General Information	
Lamp family code	ECO121 [LED EconomyLine 12100 lm]
Light source replaceable	Yes
Number of gear units	1 unit
Driver included	Yes
Photocell	Photocell included
Light source engine type	LED
Product family code	BBP400 [Mini300 LED gen2]
Lighting Technology	LED
Embedded control	Movement detection unit
CE mark	Yes

Warranty period	5 years
Flammability mark	-
ENEC mark	ENEC mark
Glow-wire test	Temperature 960 °C, duration 5 s
EU RoHS compliant	No
Light Technical	
Upward light output ratio	0
Luminous Flux	12,700 lm
Standard tilt angle posttop	O°
Standard tilt angle side entry	O°

Datasheet, 2023, April 29 data subject to change

Mini 300 LED gen2

Correlated Color Temperature (Nom)	5700 K
Luminous Efficacy (rated) (Nom)	123 lm/W
Color rendering index (CRI)	≥70
Number of light sources	48
Light source color	757 cool white
Optical cover type	Flat glass
Luminaire light beam spread	135°
Optic type outdoor	Petrol rotational symmetric wide
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	53 A
Inrush time	0.3 ms
Power Consumption	88 W
Power Factor (Fraction)	0.97
Connection	Screw connection block 3-pole
Cable	Cable 2.0 m with screw connector
Number of products on MCB of 16 A type	e B 8
-	
Temperature	20.1 40.05
Ambient temperature range	-30 to +40 °C
Controls and Dimming	
Dimmable	Yes
Driver/power unit/transformer	Power supply unit regulating external
Control interface	-
Constant light output	No
Mochanical and Harris	
Mechanical and Housing	Alimateria
Housing Material	Aluminum
Reflector material	-
Optic material	Acrylate
Optical cover material	Glass
Fixation material	Steel
Housing Color	White
Mounting device	-
Optical cover shape	Convex lens
Optical cover finish	Clear

Overall length 413 mm Overall width 95 mm Effective projected area 0 m² Dimensions (Height x Width x Depth) 95 x 413 x 413 mm Approval and Application Ingress protection code IP65 [Dust penetration-protected, jet-proof] Mech. impact protection code IKO8 [5 J vandal-protected] Surge Protection (Common/Differential) Phillips standard surge protection level Protection class IEC Safety class I Initial Performance (IEC Compliant) Luminous flux tolerance +/-7% Initial chromaticity (0.341, 0.329) SDCM <5 Power consumption tolerance +/-10% Init. Color Rendering Index Tolerance +/-2 Over Time Performance (IEC Compliant) Driver failure rate at 5000 h 0.1% Application Conditions Maximum dim level 10% Product Data Order product name BBP400 ECO121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 ECO121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1 EAN/UPC - Case 8718291878520			
Overall height 95 mm Effective projected area 0 m² Dimensions (Height x Width x Depth) 95 x 413 x 413 mm Approval and Application Ingress protection code IP65 [Dust penetration-protected, jet-proof] Mech. impact protection code IK08 [5 J vandal-protected] Surge Protection (Common/Differential) Phillips standard surge protection level Protection class IEC Safety class I Initial Performance (IEC Compliant) Luminous flux tolerance +/-7% Initial chromaticity (0.341, 0.329) SDCM <5 Power consumption tolerance +/-10% Init. Color Rendering Index Tolerance +/-2 Over Time Performance (IEC Compliant) Driver failure rate at 5000 h 0.1 % Application Conditions Maximum dim level 10% Product Data Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Overall length	413 mm	
Effective projected area Dimensions (Height x Width x Depth) Dimensions (Height x Width x Depth) Approval and Application Ingress protection code IRO8 [5 J vandal-protected, jet-proof] Mech. impact protection code IKO8 [5 J vandal-protected] Phillips standard surge protection level Protection class IEC Safety class I Initial Performance (IEC Compliant) Luminous flux tolerance Initial chromaticity Power consumption tolerance Init. Color Rendering Index Tolerance Init. Color Rendering Index Tolerance Initial rerate at 5000 h O.1 % Application Conditions Maximum dim level Toler BBP400 ECO121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 ECO121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Overall width	413 mm	
Dimensions (Height x Width x Depth) Approval and Application Ingress protection code Mech. impact protection code Mech. impact protection (Common/Differential) Protection (Common/Differential) Protection class IEC Safety class I Initial Performance (IEC Compliant) Luminous flux tolerance +/-7% Initial chromaticity (0.341, 0.329) SDCM <5 Power consumption tolerance +/-10% Init. Color Rendering Index Tolerance +/-2 Over Time Performance (IEC Compliant) Driver failure rate at 5000 h O.1% Application Conditions Maximum dim level 10% Product Data Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Packs per outer box 1	Overall height	95 mm	
Approval and Application Ingress protection code IP65 [Dust penetration-protected, jet-proof] Mech. impact protection code IK08 [5 J vandal-protected] Surge Protection (Common/Differential) Philips standard surge protection level Protection class IEC Safety class I Initial Performance (IEC Compliant) Luminous flux tolerance +/-7% Initial chromaticity (0.341, 0.329) SDCM <5 Power consumption tolerance +/-10% Init. Color Rendering Index Tolerance +/-2 Over Time Performance (IEC Compliant) Driver failure rate at 5000 h 0.1% Application Conditions Maximum dim level 10% Product Data Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Effective projected area	0 m²	
Ingress protection code IP65 [Dust penetration-protected, jet-proof] Mech. impact protection code IK08 [5 J vandal-protected] Surge Protection (Common/Differential) Protection class IEC Safety class I Initial Performance (IEC Compliant) Luminous flux tolerance +/-7% Initial chromaticity (0.341, 0.329) SDCM <5 Power consumption tolerance +/-10% Init. Color Rendering Index Tolerance +/-2 Over Time Performance (IEC Compliant) Driver failure rate at 5000 h O.1% Application Conditions Maximum dim level 10% Product Data Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Dimensions (Height x Width x Depth)	95 x 413 x 413 mm	
Ingress protection code IP65 [Dust penetration-protected, jet-proof] Mech. impact protection code IK08 [5 J vandal-protected] Surge Protection (Common/Differential) Protection class IEC Safety class I Initial Performance (IEC Compliant) Luminous flux tolerance +/-7% Initial chromaticity (0.341, 0.329) SDCM <5 Power consumption tolerance +/-10% Init. Color Rendering Index Tolerance +/-2 Over Time Performance (IEC Compliant) Driver failure rate at 5000 h O.1% Application Conditions Maximum dim level 10% Product Data Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1			
Mech. impact protection code Surge Protection (Common/Differential) Protection class IEC Safety class I Initial Performance (IEC Compliant) Luminous flux tolerance +/-7% Initial chromaticity (0.341, 0.329) SDCM <5 Power consumption tolerance +/-10% Init. Color Rendering Index Tolerance +/-2 Over Time Performance (IEC Compliant) Driver failure rate at 5000 h O.1% Application Conditions Maximum dim level 10% Product Data Order product name BBP400 ECO121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 ECO121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Approval and Application		
Surge Protection (Common/Differential) Philips standard surge protection level Protection class IEC Safety class I Initial Performance (IEC Compliant) Luminous flux tolerance +/-7% Initial chromaticity (0.341, 0.329) SDCM <5 Power consumption tolerance +/-10% Init. Color Rendering Index Tolerance +/-2 Over Time Performance (IEC Compliant) Driver failure rate at 5000 h 0.1% Application Conditions Maximum dim level 10% Product Data Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Ingress protection code	IP65 [Dust penetration-protected, jet-proof]	
Protection class IEC Safety class I Initial Performance (IEC Compliant) Luminous flux tolerance +/-7% Initial chromaticity (0.341, 0.329) SDCM <5 Power consumption tolerance +/-10% Init. Color Rendering Index Tolerance +/-2 Over Time Performance (IEC Compliant) Driver failure rate at 5000 h 0.1% Application Conditions Maximum dim level 10% Product Data Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Mech. impact protection code	IK08 [5 J vandal-protected]	
Initial Performance (IEC Compliant) Luminous flux tolerance +/-7% Initial chromaticity (0.341, 0.329) SDCM <5 Power consumption tolerance +/-10% Init. Color Rendering Index Tolerance +/-2 Over Time Performance (IEC Compliant) Driver failure rate at 5000 h 0.1% Application Conditions Maximum dim level 10% Product Data Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Surge Protection (Common/Differential)	Philips standard surge protection level	
Luminous flux tolerance +/-7% Initial chromaticity (0.341, 0.329) SDCM <5 Power consumption tolerance +/-10% Init. Color Rendering Index Tolerance +/-2 Over Time Performance (IEC Compliant) Driver failure rate at 5000 h 0.1 % Application Conditions Maximum dim level 10% Product Data Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Protection class IEC	Safety class I	
Luminous flux tolerance +/-7% Initial chromaticity (0.341, 0.329) SDCM <5 Power consumption tolerance +/-10% Init. Color Rendering Index Tolerance +/-2 Over Time Performance (IEC Compliant) Driver failure rate at 5000 h 0.1 % Application Conditions Maximum dim level 10% Product Data Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1			
Initial chromaticity (0.341, 0.329) SDCM <5 Power consumption tolerance +/-10% Init. Color Rendering Index Tolerance +/-2 Over Time Performance (IEC Compliant) Driver failure rate at 5000 h 0.1 % Application Conditions Maximum dim level 10% Product Data Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Initial Performance (IEC Compliant)		
Power consumption tolerance +/-10% Init. Color Rendering Index Tolerance +/-2 Over Time Performance (IEC Compliant) Driver failure rate at 5000 h 0.1% Application Conditions Maximum dim level 10% Product Data Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Luminous flux tolerance	+/-7%	
Init. Color Rendering Index Tolerance +/-2 Over Time Performance (IEC Compliant) Driver failure rate at 5000 h 0.1 % Application Conditions Maximum dim level 10% Product Data Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Initial chromaticity	(0.341, 0.329) SDCM <5	
Over Time Performance (IEC Compliant) Driver failure rate at 5000 h Application Conditions Maximum dim level 10% Product Data Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Power consumption tolerance	+/-10%	
Driver failure rate at 5000 h 0.1% Application Conditions 10% Maximum dim level 10% Product Data BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Init. Color Rendering Index Tolerance	+/-2	
Driver failure rate at 5000 h 0.1% Application Conditions 10% Maximum dim level 10% Product Data BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1			
Application Conditions Maximum dim level 10% Product Data Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Over Time Performance (IEC Compliant)		
Maximum dim level 10% Product Data BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Driver failure rate at 5000 h	0.1 %	
Maximum dim level 10% Product Data BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1			
Product Data Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Application Conditions		
Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Maximum dim level	10%	
Order product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1			
Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Product Data		
Full product name BBP400 EC0121-3S/757 I PRW WH MDU PH CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Order product name	BBP400 ECO121-3S/757 I PRW WH MDU PH	
CFR Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1		CFR	
Full product code 871829187852000 Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Full product name	BBP400 ECO121-3S/757 I PRW WH MDU PH	
Order code 87852000 Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1		CFR	
Material Nr. (12NC) 910930205367 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Full product code	871829187852000	
Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Order code	87852000	
EAN/UPC - Product/Case 8718291878520 Numerator - Packs per outer box 1	Material Nr. (12NC)	910930205367	
Numerator - Packs per outer box 1	Numerator - Quantity Per Pack	1	
	EAN/UPC - Product/Case	8718291878520	
EAN/UPC - Case 8718291878520	Numerator - Packs per outer box	1	
	EAN/UPC - Case	8718291878520	

Mini 300 LED gen2

Dimensional drawing



