



SpeedStar

BGP322 ECO85--3S/740 I DM FG AL SI

SpeedStar Medium, LED EconomyLine 8500 lm, Distribution medium, Flat glass

Municipalities are under pressure to meet energy conservation goals by reducing their energy consumption and carbon footprint while complying with lighting norms and standards. Our SpeedStar LED luminaire addresses these fundamental issues and provides a solution to reduce the impact on our environment. SpeedStar is an energy-efficient luminaire requiring minimal maintenance and incorporating the easy-to-upgrade LEDGINE, which can be connected to lighting regulation systems for further energy savings. This carbon-neutral luminaire is the ideal solution for functional road and street lighting.

Product data

General Information	
Lamp family code	ECO85 [LED EconomyLine 8500 lm]
Light source replaceable	Yes
Number of gear units	Unit
Driver included	Yes
Photocell	-
Remarks	*- According to the Lighting Europe guidance
	paper 'Evaluating performance of LED based
	luminaires – January 2018': statistically there
	is no relevant difference in lumen
	maintenance between the B50 and, for
	example, the B10. Therefore, the median
	useful life (B50) value also represents the
	B10 value.
Light source engine type	LED
Product family code	BGP322 [SpeedStar Medium]

Lighting Technology	LED
Embedded control	-
CE mark	Yes
Warranty period	5 years
Flammability mark	-
ENEC mark	ENEC mark
Glow-wire test	Temperature 650 °C, duration 5 s
EU RoHS compliant	Yes
Light Technical	
Upwards light output ratio	0.03
Luminous Flux	8,900 lm
Standard tilt angle post-top	5°
Standard tilt angle side entry	0°
Correlated Colour Temperature	4000 K
-	-

Datasheet, 2023, April 29 data subject to change

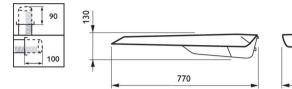
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Luminous efficacy (rated) (nom.)	124 lm/W
	70
Colour rendering index (CRI)	740 neutral white
Light source colour	
Optical cover type	Flat glass
Luminaire light beam spread	180°
Optic type outdoor	Distribution medium
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	46 A
Inrush time	0.25 ms
Power Consumption	72 W
Power Factor (Fraction)	0.8
Connection	-
Cable	
Number of products on MCB of 16 A type	7
B	•
Temperature	
Ambient temperature range	-20 to +50 °C
Controls and Dimming	
Dimmable	No
Driver/power unit/transformer	Power supply unit regulating
Control interface	-
Constant light output	No
Mechanical and Housing	
Housing material	Aluminium
Reflector material	-
Optic material	Polycarbonate
Optical cover/lens material	Glass
Fixation material	Aluminium
Housing Colour	Silver
Mounting device	Universal for diameter 42 to 76 mm
Optical cover/lens shape	Convex lens
Optical cover/lens finish	Clear
Overall length	768 mm
Overall teligin	700 111111

Overall height	129 mm	
Effective projected area	0.034 m²	
Dimensions (height x width x depth)	129 x 394 x 768 mm	
Parts colour	All parts coloured	
Approval and Application		
Ingress protection code	IP66 [Dust penetration-protected, jet-proof]	
Mech. impact protection code	IK08 [5 J vandal-protected]	
Surge Protection (Common/Differential)	Luminaire surge protection level up to 6 kV $$	
	differential mode and 6 kV common mode	
Protection class IEC	Safety class I	
Initial Performance (IEC Compliant)		
Luminous flux tolerance	+/-7%	
Initial chromaticity	(0.380, 0.370) SDCM <3	
Power consumption tolerance	+/-10%	
Init. Color Rendering Index Tolerance	+/-2	
Over Time Performance (IEC Compliant)		
Control gear failure rate at median useful	7.5 %	
life 50,000 h		
Lumen maintenance at median useful life	* L80	
75000 h		
Application Conditions		
Performance ambient temperature Tq	25 ℃	
Maximum dim level	Not applicable	
Product Data		
Order product name	BGP322 ECO853S/740 I DM FG AL SI	
Full product name	BGP322 ECO853S/740 I DM FG AL SI	
Full EOC	871829133595500	
Order code	33595500	
Material no. (12 NC)	910505016408	
SAP numerator – quantity per pack	1	
EAN/UPC — Product/Case	8718291335955	
Numerator – packs per outer box	1	
Numerator – packs per outer box EAN/UPC - Case		

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Dimensional drawing



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