Copenhagen LED – discreet and timeless design

Copenhagen LED Big

Copenhagen LED was co-designed together with Copenhagen's Office of City Architecture in order to enhance the aesthetic appeal of the city's lighting. The luminaire's timeless design comes in two sizes – mini and large – to ensure that the dimensions of the luminaire and pole are well balanced, and that the installation blends in harmoniously with its surroundings. A variety of suspensions are available, offering maximum freedom in the overall design of the installation. A choice of symmetrical or asymmetrical distributions and state-of-the-art LED technology complete the specification of an extremely adaptable luminaire.

Benefits
· Unique opal canopy enables creation of a comfortable lighting ambience
· Cutting-edge LED technology in combination with the latest lighting controls
· Future-proof: LED engine and driver serviceable and upgradeable

Features
· LEDGINE inside – state-of-the-art, future-proof LED technology
· Timeless design
· Application flexibility thanks to the choice of mounting options

Application
· Residential streets
· Pedestrian and cycle paths
· Minor roads

Specifications

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Type	BRS441 (side entry version)		**Inrush current**	130 A / 165 µs (50%)
	BDS441 (central version)		**Dimming**	LumiStep: 6 and 8 hours
	BSS441 (suspended version)			DynaDimmer
Light source	Build-in LED-module			SDU
Power (steady state in W, +/- 10%)	19 up to 136 W			External Dimming 1-10 V and DALI
				StarSense RF
Correlated Color Temperature	3000 K (Warm white)			AmpDim
	4000 K (Neutral white)		**Optic**	Distribution comfort (DC)
Luminous flux	GreenLine: 1600 up to 9760 lm			Distribution medium (DM)
	EconomyLine: 2322 up to 14161 lm			Distribution wide (DW)
Luminaire efficacy	Up to 79 lm/W (for 3000 K)			Distribution wet road (DK)
	Up to 104 lm/W (for 4000 K)			Distribution pedestrian crossing right (DP-R)
Color Rendering Index	84 (3000 K)			Disribution symmetrical narrow (DSN)
	76 (4000 K)			Asymmetrical (A)
Lumen maintenance at median useful life* 100000 h	GreenLine: min L80		**Optical cover**	Glass, flat
			Material	Housing: PMMA, impact resistant
Lumen maintenance at median useful life* 75000 h	EconomyLine: min L80			Top flange: cast aluminum
				Heat sink: cast aluminum
				Cover: glass, tempered
Control gear failure rate at median useful life 100000 h	GreenLine: 10%		**Color**	Top flange standard: light gray
				Housing standard: light gray (RAL7035) or opal
Control gear failure rate at median useful life 75000 h	EconomyLine: 7.5%			Other RAL colors available on request
			Maintenance	Three tools to open the luminaire for all maintenance activites (Torx15, Torx25, Torx25)
Performance Ambient Temperature Tq	+25 ºC		**Installation**	Delivered with 10.5 m cable
				Recommended mounting height: 6 to 10 m
Operating temperature range	–20 ºC to +25 ºC			Standard tilt angle: 0º
				Adjustable tilt angle: 2º
Driver	Built-in (self ballasted LED-module)			Max SCx: 0,13 m²
			Accessories	Mounting brackets for suspended version BSS441
Mains voltage	220-240 V / 50-60 Hz		**Remarks**	BSS441: order mounting bracket separately

Versions

Big Copenhague LED BRS441
urban-lighting luminaire

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Product details

OPDP_BGS441i_0001-Detail photo

Approval and Application

Mech. impact protection code	IK08
Surge Protection (Common/ Differential)	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode

Controls and Dimming

Dimmable	No

General Information

Luminaire light beam spread	180°
CE mark	CE mark
Optical cover/lens type	FG
Driver included	Yes
Flammability mark	F
Green Flagship mark	Green Flagship
Light source replaceable	Yes
Lamp version	3S
Number of gear units	1 unit
Number of light sources	1
Product Family Code	BRS441

Light Technical

Standard tilt angle side entry	0°
Standard tilt angle posttop	0°
Upward light output ratio	0

Operating and Electrical

Order Code	Full Product Name	Driver current
56074600	BRS441 GRN80-3S/830 II DK CLO-DDF6 C10K	385 mA
56079100	BRS441 GRN32-3S/830 II O-DK CLO-DDF6 C10	590 mA
56080700	BRS441 GRN64-3S/830 II O-DK CLO-DDF6 C10	402 mA
56081400	BRS441 GRN80-3S/830 II O-DK CLO-DDF6 C10	385 mA
56084500	BRS441 GRN78-3S/740 II DK CLO-DDF6 C10K	410 mA
56085200	BRS441 GRN98-3S/740 II DK CLO-DDF6 C10K	385 mA
08113500	BRS441 GRN48-3S/830 II DK GR CLO-DDF6	455 mA
08117300	BRS441 GRN40-3S/830 II DK GR CLO-DDF6	380 mA
56024100	BRS441 GRN64-3S/830 II DK GR CLO C10K	402 mA
56025800	BRS441 GRN48-3S/830 II DK GR CLO C10K	455 mA
56327300	BRS441 GRN96-3S/830 II DK GR CLO-DDF6	465 mA
98582200	BRS441 GRN39-3S/740 II DC GR CLO C10K	300 mA
98714700	BRS441 GRN49-3S/740 II DK CLO C10K	380 mA

General Information

Order Code	Full Product Name	Light source color	Lamp family code	Optic type
56074600	BRS441 GRN80-3S/830 II DK CLO-DDF6 C10K	830 warm white	GRN80	Distribution wet road (DK)
56079100	BRS441 GRN32-3S/830 II O-DK CLO-DDF6 C10	830 warm white	GRN32	Distribution wet road (DK)

Order Code	Full Product Name	Light source color	Lamp family code	Optic type
56080700	BRS441 GRN64-3S/830 II O-DK CLO-DDF6 C10	830 warm white	GRN64	Distribution wet road (DK)
56081400	BRS441 GRN80-3S/830 II O-DK CLO-DDF6 C10	830 warm white	GRN80	Distribution wet road (DK)

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Order Code	Full Product Name	Light source color	Lamp family code	Optic type
56084500	BRS441 GRN78-3S/740 II DK CLO-DDF6 C10K	740 neutral white	GRN78	Distribution wet road (DK)
56085200	BRS441 GRN98-3S/740 II DK CLO-DDF6 C10K	740 neutral white	GRN98	Distribution wet road (DK)
08113500	BRS441 GRN48-3S/830 II DK GR CLO-DDF6	830 warm white	GRN48	Distribution wet road (DK)
08117300	BRS441 GRN40-3S/830 II DK GR CLO-DDF6	830 warm white	GRN40	Distribution wet road (DK)
56024100	BRS441 GRN64-3S/830 II DK GR CLO C10K	830 warm white	GRN64	Distribution wet road (DK)

Order Code	Full Product Name	Light source color	Lamp family code	Optic type
56025800	BRS441 GRN48-3S/830 II DK GR CLO C10K	830 warm white	GRN48	Distribution wet road (DK)
56327300	BRS441 GRN96-3S/830 II DK GR CLO-DDF6	830 warm white	GRN96	Distribution wet road (DK)
98582200	BRS441 GRN39-3S/740 II DC GR CLO C10K	740 neutral white	GRN39	Distribution comfort
98714700	BRS441 GRN49-3S/740 II DK CLO C10K	740 neutral white	GRN49	Distribution wet road (DK)

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
56074600	BRS441 GRN80-3S/830 II DK CLO-DDF6 C10K	3000 K	≥80	6880 lm
56079100	BRS441 GRN32-3S/830 II O-DK CLO-DDF6 C10	3000 K	≥80	2480 lm
56080700	BRS441 GRN64-3S/830 II O-DK CLO-DDF6 C10	3000 K	≥80	5360 lm
56081400	BRS441 GRN80-3S/830 II O-DK CLO-DDF6 C10	3000 K	≥80	6880 lm
56084500	BRS441 GRN78-3S/740 II DK CLO-DDF6 C10K	4000 K	≥70	6560 lm
56085200	BRS441 GRN98-3S/740 II DK CLO-DDF6 C10K	4000 K	≥70	8240 lm
08113500	BRS441 GRN48-3S/830 II DK GR CLO-DDF6	3000 K	≥80	4000 lm

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
08117300	BRS441 GRN40-3S/830 II DK GR CLO-DDF6	3000 K	≥80	3440 lm
56024100	BRS441 GRN64-3S/830 II DK GR CLO C10K	3000 K	≥80	5360 lm
56025800	BRS441 GRN48-3S/830 II DK GR CLO C10K	3000 K	≥80	4000 lm
56327300	BRS441 GRN96-3S/830 II DK GR CLO-DDF6	3000 K	≥80	8160 lm
98582200	BRS441 GRN39-3S/740 II DC GR CLO C10K	4000 K	≥70	3280 lm
98714700	BRS441 GRN49-3S/740 II DK CLO C10K	4000 K	≥70	4080 lm

Mechanical and Housing

Order Code	Full Product Name	Color
56074600	BRS441 GRN80-3S/830 II DK CLO-DDF6 C10K	Opal
56079100	BRS441 GRN32-3S/830 II O-DK CLO-DDF6 C10	Opal
56080700	BRS441 GRN64-3S/830 II O-DK CLO-DDF6 C10	Opal
56081400	BRS441 GRN80-3S/830 II O-DK CLO-DDF6 C10	Opal
56084500	BRS441 GRN78-3S/740 II DK CLO-DDF6 C10K	Opal
56085200	BRS441 GRN98-3S/740 II DK CLO-DDF6 C10K	Opal
08113500	BRS441 GRN48-3S/830 II DK GR CLO-DDF6	grey

Order Code	Full Product Name	Color
08117300	BRS441 GRN40-3S/830 II DK GR CLO-DDF6	grey
56024100	BRS441 GRN64-3S/830 II DK GR CLO C10K	grey
56025800	BRS441 GRN48-3S/830 II DK GR CLO C10K	grey
56327300	BRS441 GRN96-3S/830 II DK GR CLO-DDF6	grey
98582200	BRS441 GRN39-3S/740 II DC GR CLO C10K	grey
98714700	BRS441 GRN49-3S/740 II DK CLO C10K	Opal

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