Philips Copenhagen LED Gen2: timeless design and future-ready technology

Copenhagen LED gen2 small

The original Copenhagen luminaire was co-designed with Copenhagen's Office of City Architecture in the 1960s with the aim of enhancing the aesthetic appeal of the city through lighting. This timeless luminaire design comes in two types: Copenhagen City LED Gen2 is for city and residential areas where light comfort is important; Copenhagen LED Gen2 delivers high performance for road lighting applications. The second generation of Copenhagen LED is available in a range of sizes, from mini to mega. This makes it suitable for any type of application while ensuring the dimensions of the luminaire and pole are well balanced, so every installation blends harmoniously into its surroundings. Various suspensions are available, allowing a variety of mounting options to provide maximum freedom during installation. Thanks to the built in Philips LEDGINE-O engine, and the wide range of application-tailored optics, Copenhagen LED luminaires deliver the right amount of light and in the right direction on your street, enabling important energy savings. The luminaire is available with one or two Zhaga-D4i (ZD4i) System Ready (SR) sockets, which makes the luminaire future ready. This means Copenhagen LED Gen2 is ready to pair with advanced control and lighting software applications such as Interact, or sensors such as the Philips Outdoor Sensor Bundle (OSB). And because the top SR socket is integrated into the canopy, it has no impact on the beautiful, clean design of the luminaire. Furthermore, every Copenhagen LED Gen2 BPS559, BRS561, BRS562 and BRS563 luminaire is uniquely identifiable, thanks to the Signify Service tag app. By simply scanning a QR code, placed inside the door of the mast or directly on the luminaire, you can instantly access the configuration of the luminaire. This makes maintenance and programing operations faster and easier and enables you to create a digital library of lighting assets and spare parts.

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Benefits
- Excellent energy savings and light distribution thanks to LEDGINE–O high system efficacy and a large choice of optics
- Future-ready with Zhaga-D4i SR sockets to connect with Interact controls and sensors
- Service tag for easy installation and maintenance

Features
- 4 sizes (mini, small, large, and mega) to fit all mounting heights and possibilities: side entry, wall–arm, post-top, catenary, or central fixing
- 50+ choice of beams, and internal louvers to match all configurations
- Choice of color temperatures and color rendering for different ambiences: 2200K, 2700K, 3000K and 4000K
- Efficacy up to 167 lm/W
- Marine salt protection
- 5-year standard warranty (option to extend up to 10 years)

Application
- Traffic roads: motorways, highways (mega and large versions)
- Large streets and industrial areas (large)
- Small streets and car parks (small)
- Cycle paths, footpaths, pedestrian crossings (mini)

Specifications

Type	BRS561: Side entry	**Accessories**	Back light cover
	BPS561: ø60 mm post top		Satin diffuser
	BDS561: Center, 3/4" thread suspended	**Ingress protection**	IP66
	BSS561: Suspended/ Wire	**Certification**	CE,
Material	Housing: PE		ENEC+
	Front glass: tempered glass, silk screen printed	**Serviceability class**	Class A
Installation	Side entry		
	ø60 mm post top		
	Center, 3/4" thread suspended		
	Suspended/ Wire		
Luminous flux	2100 lm to 12000 lm system flux		
Correlated color temperature – CCT	722, 727, 730, 740, 827, 830, 840		
Luminaire efficacy	up to 167 lm/W		
Dimming	PSU: Non–dimmable power supply unit,		
	PSR: Dimmable driver with LineSwitch,		
	PSD: Dimmable Power supply unit with DALI interface (integrated),		
	PSA: Dimmable driver with AmpDim integrated,		
	PSDD: Dimmable driver Dynadim integrated,		
	PSD-SR: Power supply unit with DALI and SystemReady interface,		
	PSM: Power supply unit with Coded Mains integrated		

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Versions

Small Copenhagen LED gen2 with side entry adaptor diam 48 mm with top (hidden) and bottom socket
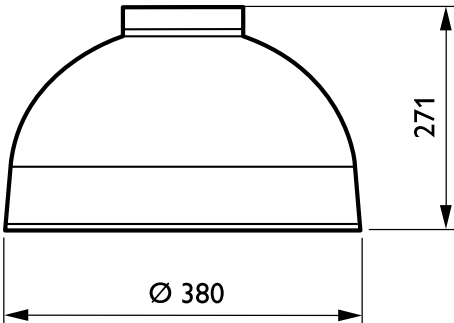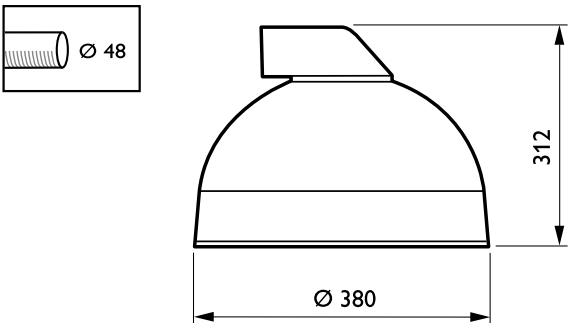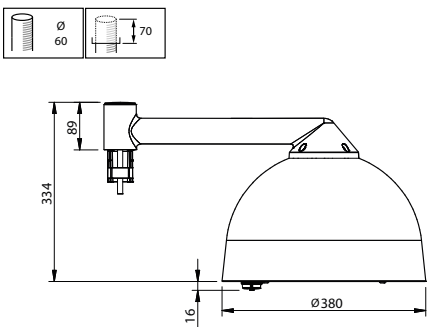
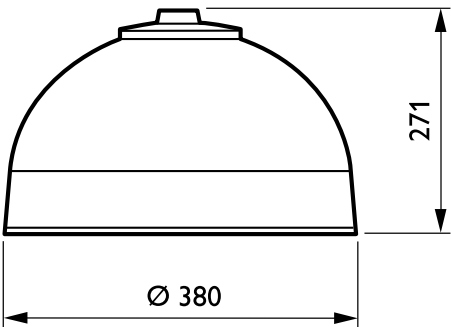**Copenhagen City LED gen2 small BSS761**

Copenhagen LED gen2 large centered

Small Copenhagen LED gen2 with side entry adaptor diam 48mm

Dimensional drawing

271

Ø 380

Ø 60

70

89

334

16

Ø 380

Ø 48

312

Ø 380

271

Ø 380

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Product details

Small Copenhagen LED gen2 and Copenhagen City LED gen2 Top System Ready socket location

Small Copenhagen LED gen2 and Copenhagen City LED gen2 CityTouch node location

General Information

CE mark	Yes
Driver included	Yes
Flammability mark	–
Light source replaceable	Yes
Number of gear units	1 unit

Light Technical

Luminaire light beam spread	–
Optical cover type	Flat glass
Standard tilt angle side entry	0°
Standard tilt angle posttop	0°

Controls and Dimming

Dimmable	Yes

Approval and Application

Mech. impact protection code	IK08
Ingress protection code	IP66

General Information

Order Code	Full Product Name	Lamp family code	Product family code
919008633835	BRS561 LED32/830 II GL-DM50 SRTB C10K	LED32	BRS561
919008636279	BSS561LED48/830IIGL-DSM2CLO-SRTBSTDEC10K	48S	BSS561
919008636278	BDS561 LED40/830IIGL-DM31CLO-SRTSTDEC10K	40S	BDS561
919008633837	BRS561LED32/830 II GL-DM50 CLOLS850 C10K	LED32	BRS561
919008633838	BRS561 LED48/830II GL-DM50 CLOLS850 C10K	LED48	BRS561
919008635240	BRS561 LED24/740 II DN10 GR CLO C10K FQQ	LED24	BRS561
919008635241	BRS561 LED32/740 II DM11 GR CLO C10K FQQ	LED32	BRS561
919008636723	BPS561 LED35/830II DM31 GR CLO-SRTB C10K	LED35	BPS561
919008636724	BPS561 LED35/830 II DM31 GW CLO C10K 60P	LED35	BPS561

Light Technical (1/2)

Order Code	Full Product Name	Light source color	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Flux
919008633835	BRS561 LED32/830 II GL-DM50 SRTB C10K	830 warm white	3000 K	≥80	2,816 lm
919008636279	BSS561LED48/830IIGL-DSM2CLO-SRTBSTDEC10K	830 warm white	3000 K	>80	4,418 lm
919008636278	BDS561 LED40/830IIGL-DM31CLO-SRTSTDEC10K	830 warm white	3000 K	>80	3,432 lm
919008633837	BRS561LED32/830 II GL-DM50 CLOLS850 C10K	830 warm white	3000 K	≥80	2,728 lm

Order Code	Full Product Name	Light source color	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Flux
919008633838	BRS561 LED48/830II GL-DM50 CLOLS850 C10K	830 warm white	3000 K	≥80	4,136 lm
919008635240	BRS561 LED24/740 II DN10 GR CLO C10K FQQ	740 neutral white	4000 K	≥70	2,088 lm
919008635241	BRS561 LED32/740 II DM11 GR CLO C10K FQQ	740 neutral white	4000 K	≥70	2,697 lm
919008636723	BPS561 LED35/830II DM31 GR CLO-SRTB C10K	830 warm white	3000 K	80	2,992 lm

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Order Code	Full Product Name	Light source color	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Flux
919008636724	BPS561 LED35/830 II DM31 GW CLO C10K 60P	830 warm white	3000 K	80	2,992 lm

Light Technical (2/2)

Order Code	Full Product Name	Optic type outdoor	Upward light output ratio
919008633835	BRS561 LED32/830 II GL-DM50 SRTB C10K	Distribution medium 50	0
919008636279	BSS561LED48/830IIGL-DSM2CLO-SRTBSTDEC10K	Distribution symmetrical medium 2	0
919008636278	BDS561 LED40/830IIGL-DM31CLO-SRTSTDEC10K	Distribution medium 31	0
919008633837	BRS561LED32/830 II GL-DM50 CLOLS850 C10K	Distribution medium 50	0
919008633838	BRS561 LED48/830II GL-DM50 CLOLS850 C10K	Distribution medium 50	0

Order Code	Full Product Name	Optic type outdoor	Upward light output ratio
919008635240	BRS561 LED24/740 II DN10 GR CLO C10K FQQ	Distribution narrow 10	0
919008635241	BRS561 LED32/740 II DM11 GR CLO C10K FQQ	Distribution medium 11	0
919008636723	BPS561 LED35/830II DM31 GR CLO-SRTB C10K	Distribution medium 31	0
919008636724	BPS561 LED35/830 II DM31 GW CLO C10K 60P	Distribution medium 31	0.5

Operating and Electrical

Order Code	Full Product Name	Power Consumption
919008633835	BRS561 LED32/830 II GL-DM50 SRTB C10K	25 W
919008636279	BSS561LED48/830IIGL-DSM2CLO-SRTBSTDEC10K	35 W
919008636278	BDS561 LED40/830IIGL-DM31CLO-SRTSTDEC10K	29.5 W
919008633837	BRS561LED32/830 II GL-DM50 CLOLS850 C10K	24.5 W

Order Code	Full Product Name	Power Consumption
919008633838	BRS561 LED48/830II GL-DM50 CLOLS850 C10K	34.5 W
919008635240	BRS561 LED24/740 II DN10 GR CLO C10K FQQ	14.8 W
919008635241	BRS561 LED32/740 II DM11 GR CLO C10K FQQ	19.2 W
919008636723	BPS561 LED35/830II DM31 GR CLO-SRTB C10K	26.5 W
919008636724	BPS561 LED35/830 II DM31 GW CLO C10K 60P	26.5 W

Mechanical and Housing

Order Code	Full Product Name	Housing Color
919008633835	BRS561 LED32/830 II GL-DM50 SRTB C10K	White
919008636279	BSS561LED48/830IIGL-DSM2CLO-SRTBSTDEC10K	White
919008636278	BDS561 LED40/830IIGL-DM31CLO-SRTSTDEC10K	White
919008633837	BRS561LED32/830 II GL-DM50 CLOLS850 C10K	White
919008633838	BRS561 LED48/830II GL-DM50 CLOLS850 C10K	White

Order Code	Full Product Name	Housing Color
919008635240	BRS561 LED24/740 II DN10 GR CLO C10K FQQ	Gray
919008635241	BRS561 LED32/740 II DM11 GR CLO C10K FQQ	Gray
919008636723	BPS561 LED35/830II DM31 GR CLO-SRTB C10K	Grey
919008636724	BPS561 LED35/830 II DM31 GW CLO C10K 60P	Opal

Approval and Application

Order Code	Full Product Name	Surge Protection (Common/Differential)
919008633835	BRS561 LED32/830 II GL-DM50 SRTB C10K	Luminaire surge protection level until 6 kV differential mode and 6 kV common mode

Order Code	Full Product Name	Surge Protection (Common/Differential)
919008636279	BSS561LED48/830IIGL-DSM2CLO-SRTBSTDEC10K	Luminaire surge protection level until 6 kV differential mode and 10 kV common mode

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Order Code	Full Product Name	Surge Protection (Common/ Differential)	Order Code	Full Product Name	Surge Protection (Common/ Differential)
919008636278	BDS561 LED40/830IIGL-DM31CLO-SRTSTDEC10K	Luminaire surge protection level until 6 kV differential mode and 10 kV common mode	919008635241	BRS561 LED32/740 II DM11 GR CLO C10K FQQ	Luminaire surge protection level until 6 kV differential mode and 6 kV common mode
919008633837	BRS561LED32/830 II GL-DM50 CLOLS850 C10K	Luminaire surge protection level until 6 kV differential mode and 6 kV common mode	919008636723	BPS561 LED35/830II DM31 GR CLO-SRTB C10K	Luminaire surge protection level until 6 kV differential mode and 10 kV common mode
919008633838	BRS561 LED48/830II GL-DM50 CLOLS850 C10K	Luminaire surge protection level until 6 kV differential mode and 6 kV common mode	919008636724	BPS561 LED35/830 II DM31 GW CLO C10K 60P	Luminaire surge protection level until 6 kV differential mode and 10 kV common mode
919008635240	BRS561 LED24/740 II DN10 GR CLO C10K FQQ	Luminaire surge protection level until 6 kV differential mode and 6 kV common mode			

Over Time Performance (IEC Compliant)

Order Code	Full Product Name	Driver failure rate at 5000 h	Order Code	Full Product Name	Driver failure rate at 5000 h
919008633835	BRS561 LED32/830 II GL-DM50 SRTB C10K	0.01 %	919008635240	BRS561 LED24/740 II DN10 GR CLO C10K FQQ	–
919008636279	BSS561LED48/830IIGL-DSM2CLO-SRTBSTDEC10K	–	919008635241	BRS561 LED32/740 II DM11 GR CLO C10K FQQ	–
919008636278	BDS561 LED40/830IIGL-DM31CLO-SRTSTDEC10K	–	919008636723	BPS561 LED35/830II DM31 GR CLO-SRTB C10K	–
919008633837	BRS561LED32/830 II GL-DM50 CLOLS850 C10K	0.01 %	919008636724	BPS561 LED35/830 II DM31 GW CLO C10K 60P	–
919008633838	BRS561 LED48/830II GL-DM50 CLOLS850 C10K	0.01 %			

Application Conditions

Order Code	Full Product Name	Maximum dim level	Order Code	Full Product Name	Maximum dim level
919008633835	BRS561 LED32/830 II GL-DM50 SRTB C10K	–	919008635240	BRS561 LED24/740 II DN10 GR CLO C10K FQQ	–
919008636279	BSS561LED48/830IIGL-DSM2CLO-SRTBSTDEC10K	10%	919008635241	BRS561 LED32/740 II DM11 GR CLO C10K FQQ	–
919008636278	BDS561 LED40/830IIGL-DM31CLO-SRTSTDEC10K	10%	919008636723	BPS561 LED35/830II DM31 GR CLO-SRTB C10K	10%
919008633837	BRS561LED32/830 II GL-DM50 CLOLS850 C10K	–	919008636724	BPS561 LED35/830 II DM31 GW CLO C10K 60P	10%
919008633838	BRS561 LED48/830II GL-DM50 CLOLS850 C10K	–			

Polar Wide Diagrams

Polar Normal (separate) – BRS561I – 919008633837

Polar Normal (separate) – BRS561I – 919008633838

Polar Normal (separate) – BRS561I – 919008635240

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Polar Wide Diagrams

Polar Normal (separate) – BRS561I – 919008636723

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2023, December 6 – data subject to change