Copenhagen LED Gen2: timeless design and future-ready technology

Copenhagen LED gen2 large & mega

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 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 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		Material	
BRS562: Side entry large		88% bio-based polyethylene canopy	
BDS562: Center, 3/4" thread suspended large		88% recycled aluminum bracket and heatsink	
BSS562: Wire suspended large		silk screen printed, tempered front glass	
BRS563: Side entry mega		Correlated color temperature – CCT	722, 727, 730, 740, 827, 830, 840
BDS563: Center, 3/4" thread suspended mega			
BSS563: Wire suspended mega		Serviceability class	Class A

Versions

Copenhagen LED gen2 mega
BRS563

Copenhagen LED gen2 large
suspended with bottom socket

Copenhagen LED gen2 large & mega

Versions

Copenhagen LED gen2 large side entry diam 48mm with bottom socket

Copenhagen LED gen2 large centered

Copenhagen LED gen2 mega centered

Copenhagen LED gen2 mega suspended
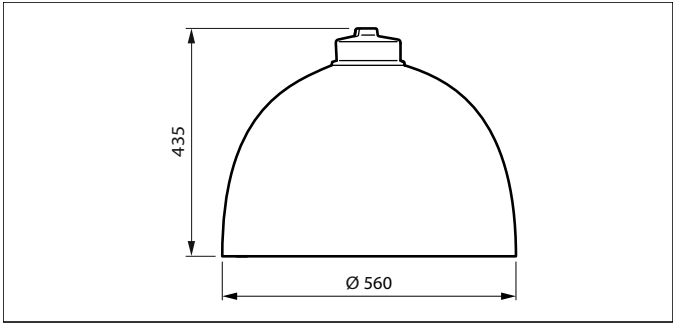

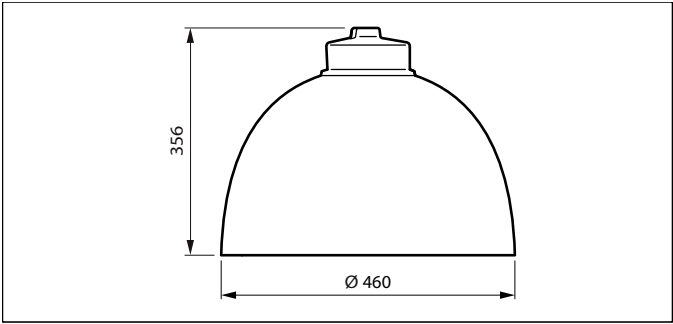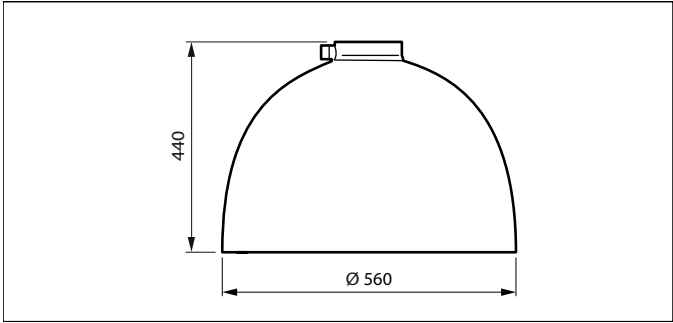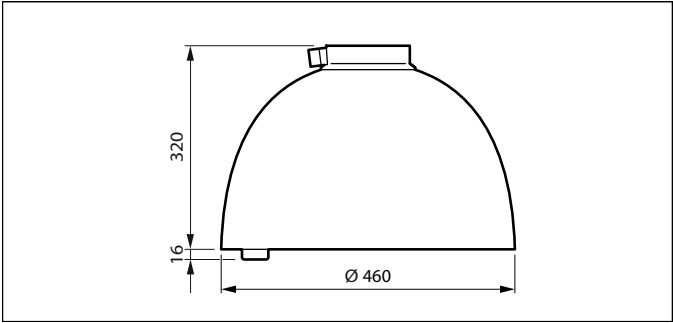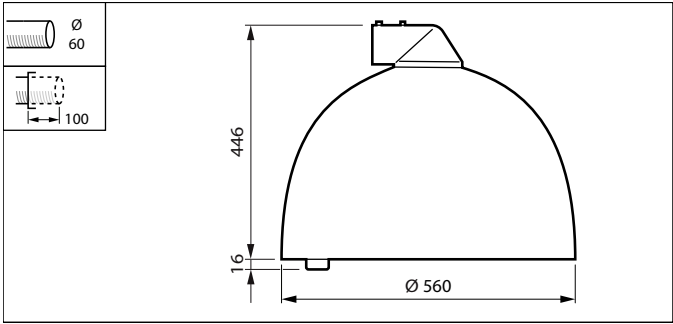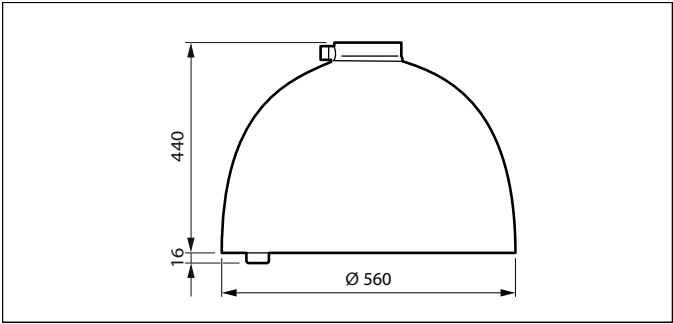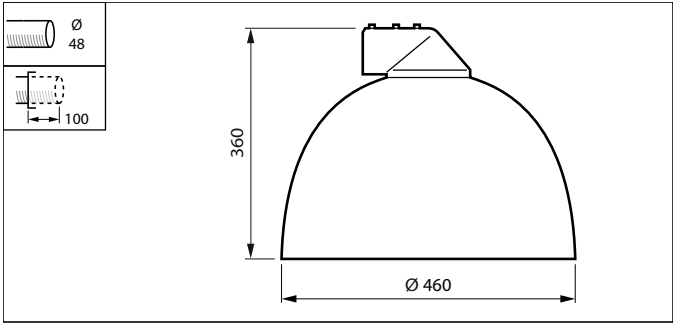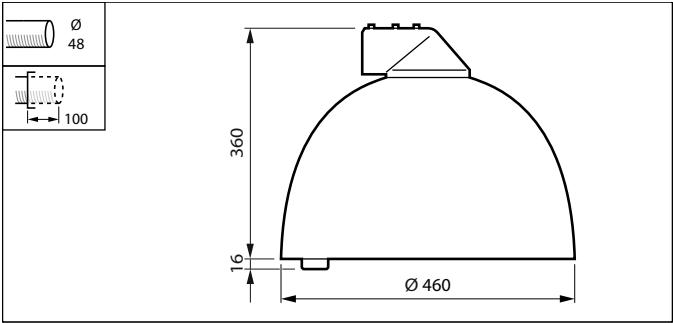**Copenhagen LED gen2 large side entry diam 48mm with gray canopy**

Copenhagen LED gen2 large side entry diam 48mm

Copenhagen LED gen2 mega suspended with bottom socket

Copenhagen LED gen2 large & mega

Dimensional drawing

Ø 48
100
360
16
Ø 460

Ø 48
100
360
Ø 460

440
16
Ø 560

Ø 60
100
446
16
Ø 560

320
16
Ø 460

440
Ø 560

356
Ø 460

435
Ø 560

Copenhagen LED gen2 large & mega

General Information

Driver included	Yes
Light source replaceable	Yes
Number of gear units	1 unit
Service tag	Yes

Light Technical

Luminaire light beam spread	–
Upward light output ratio	0

Controls and Dimming

Dimmable	Yes

Mechanical and Housing

Optical cover type	Flat glass
Ingress protection code	IP66
Standard tilt angle side entry	0°
Standard tilt angle posttop	0°

Approval and Application

CE mark	Yes
Flammability mark	–

General Information

Order Code	Full Product Name	Lamp family code
919008636280	BRS563LED120/740IIDM31CLOSRTBSTDEC13K60S	120S
919008634399	BSS562LED170/830IIGL-DM50CLO-LS850SRTB	LED170
919008634395	BRS562 LED56/830IIGLDM50CLO-LS850 SRTB	LED56
919008634398	BDS562 LED170/830IIGL-DM50 CLO-LS850C10K	LED170
919008634404	BDS563 LED100/830II GL-DM50CLOLS850 C10K	LED100
919008634406	BSS563 LED300/830IIGL-DM50 CLO-LS850C10K	LED300
919008634397	BRS562 LED80/830II DM50 GR CLOLS850 C10K	LED80
919008634939	BRS562 LED58/740 II DM11 GR CLO C10K FQQ	LED58
919008634396	BRS562 LED56/830IIGLDM50 CLO-LS850 C10K	LED56
919008634405	BSS563LED230/830II GL-DM50 CLOLS850 SRTB	LED230

Light Technical (1/2)

Order Code	Full Product Name	Light source color	Correlated Color Temperature (Nom)	Order Code	Full Product Name	Light source color	Correlated Color Temperature (Nom)	Color rendering index (CRI)
919008636280	BRS563LED120/740IIDM31CLOSRTBSTDEC13K60S	740 neutral white	4000 K	919008634406	BSS563 LED300/830IIGL-DM50 CLO-LS850C10K	830 warm white	3000 K	80
919008634399	BSS562LED170/830IIGL-DM50CLO-LS850SRTB	830 warm white	3000 K	919008634397	BRS562 LED80/830II DM50 GR CLOLS850 C10K	830 warm white	3000 K	80
919008634395	BRS562 LED56/830IIGLDM50CLO-LS850 SRTB	830 warm white	3000 K	919008634939	BRS562 LED58/740 II DM11 GR CLO C10K FQQ	740 neutral white	4000 K	70
919008634398	BDS562 LED170/830IIGL-DM50 CLO-LS850C10K	830 warm white	3000 K	919008634396	BRS562 LED56/830IIGLDM50 CLO-LS850 C10K	830 warm white	3000 K	80
919008634404	BDS563 LED100/830II GL-DM50CLOLS850 C10K	830 warm white	3000 K	919008634405	BSS563LED230/830II GL-DM50 CLOLS850 SRTB	830 warm white	3000 K	80

Light Technical (2/2)

Order Code	Full Product Name	Optic type outdoor	Order Code	Full Product Name	Optic type outdoor
919008636280	BRS563LED120/740IIDM31CLOSRTBSTDEC13K60S	Distribution medium 31	919008634399	BSS562LED170/830IIGL-DM50CLO-LS850SRTB	Distribution medium 50

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Order Code	Full Product Name	Optic type outdoor
919008634395	BRS562 LED56/830IIGLDM50CLO-LS850 SRTB	Distribution medium 50
919008634398	BDS562 LED170/830IIGL-DM50 CLO-LS850C10K	Distribution medium 50
919008634404	BDS563 LED100/830II GL-DM50CLOLS850 C10K	Distribution medium 50
919008634406	BSS563 LED300/830IIGL-DM50 CLO-LS850C10K	Distribution medium 50

Order Code	Full Product Name	Optic type outdoor
919008634397	BRS562 LED80/830II DM50 GR CLOLS850 C10K	Distribution medium 50
919008634939	BRS562 LED58/740 II DM11 GR CLO C10K FQQ	Distribution medium 11
919008634396	BRS562 LED56/830IIGLDM50 CLO-LS850 C10K	Distribution medium 50
919008634405	BSS563LED230/830II GL-DM50 CLOLS850 SRTB	Distribution medium 50

Operating and Electrical

Order Code	Full Product Name	Power Consumption	Surge Protection (Common/Differential)	Order Code	Full Product Name	Power Consumption	Surge Protection (Common/Differential)
919008636280	BRS563LED120/740IIDM31CLOSRTBSTDEC13K60S	68 W	Surge protection level until 6 kV differential mode and 10 kV common mode				kV differential mode and 6 kV common mode
				919008634406	BSS563 LED300/830IIGL-DM50 CLO-LS850C10K	210 W	Surge protection level until 6 kV differential mode and 6 kV common mode
919008634399	BSS562LED170/830IIGL-DM50CLO-LS850SRTB	120 W	Surge protection level until 6 kV differential mode and 6 kV common mode				
				919008634397	BRS562 LED80/830II DM50 GR CLOLS850 C10K	57 W	Surge protection level until 6 kV differential mode and 6 kV common mode
919008634395	BRS562 LED56/830IIGLDM50CLO-LS850 SRTB	41 W	Surge protection level until 6 kV differential mode and 6 kV common mode				
				919008634939	BRS562 LED58/740 II DM11 GR CLO C10K FQQ	33.5 W	Surge protection level until 6 kV differential mode and 6 kV common mode
919008634398	BDS562 LED170/830IIGL-DM50 CLO-LS850C10K	120 W	Surge protection level until 6 kV differential mode and 6 kV common mode				
				919008634396	BRS562 LED56/830IIGLDM50 CLO-LS850 C10K	40.5 W	Surge protection level until 6 kV differential mode and 6
919008634404	BDS563 LED100/830II GL-DM50CLOLS850 C10K	71 W	Surge protection level until 6				

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Order Code	Full Product Name	Power Consumption	Surge Protection (Common/ Different) kV common mode	Order Code	Full Product Name	Power Consumption	Surge Protection (Common/ Differential) kV differential mode and 6 kV common mode
919008634405	BSS563LED230/830II GL–DM50 CLOLS850 SRTB	164 W	Surge protection level until 6				

Controls and Dimming

Order Code	Full Product Name	Maximum dim level	Order Code	Full Product Name	Maximum dim level
919008636280	BRS563LED120/740IIDM31CLOSRTBSTDEC13K60S	10%	919008634406	BSS563 LED300/830IIGL–DM50 CLO-LS850C10K	–
919008634399	BSS562LED170/830IIGL–DM50CLO-LS850SRTB	50%	919008634397	BRS562 LED80/830II DM50 GR CLOLS850 C10K	–
919008634395	BRS562 LED56/830IIGLDM50CLO-LS850 SRTB	–	919008634939	BRS562 LED58/740 II DM11 GR CLO C10K FQQ	–
919008634398	BDS562 LED170/830IIGL–DM50 CLO-LS850C10K	50%	919008634396	BRS562 LED56/830IIGLDM50 CLO–LS850 C10K	–
919008634404	BDS563 LED100/830II GL–DM50CLOLS850 C10K	–	919008634405	BSS563LED230/830II GL–DM50 CLOLS850 SRTB	–

Mechanical and Housing

Order Code	Full Product Name	Housing Color	Mech. impact protection code	Order Code	Full Product Name	Housing Color	Mech. impact protection code
919008636280	BRS563LED120/740IIDM31CLOSRTBSTDEC13K60S	Gray	IK08	919008634406	BSS563 LED300/830IIGL–DM50 CLO-LS850C10K	White	IK08
919008634399	BSS562LED170/830IIGL–DM50CLO-LS850SRTB	White	IK07	919008634397	BRS562 LED80/830II DM50 GR CLOLS850 C10K	Gray	IK07
919008634395	BRS562 LED56/830IIGLDM50CLO-LS850 SRTB	White	IK07	919008634939	BRS562 LED58/740 II DM11 GR CLO C10K FQQ	Gray	IK07
919008634398	BDS562 LED170/830IIGL–DM50 CLO-LS850C10K	White	IK07	919008634396	BRS562 LED56/830IIGLDM50 CLO–LS850 C10K	White	IK07
919008634404	BDS563 LED100/830II GL–DM50CLOLS850 C10K	White	IK08	919008634405	BSS563LED230/830II GL–DM50 CLOLS850 SRTB	White	IK08

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
919008636280	BRS563LED120/740IIDM31CLOSRTBSTDEC13K60S	–	919008634406	BSS563 LED300/830IIGL–DM50 CLO-LS850C10K	0.01 %
919008634399	BSS562LED170/830IIGL–DM50CLO-LS850SRTB	0.01 %	919008634397	BRS562 LED80/830II DM50 GR CLOLS850 C10K	0.01 %
919008634395	BRS562 LED56/830IIGLDM50CLO-LS850 SRTB	0.01 %	919008634939	BRS562 LED58/740 II DM11 GR CLO C10K FQQ	–
919008634398	BDS562 LED170/830IIGL–DM50 CLO-LS850C10K	0.01 %	919008634396	BRS562 LED56/830IIGLDM50 CLO–LS850 C10K	0.01 %
919008634404	BDS563 LED100/830II GL–DM50CLOLS850 C10K	0.01 %	919008634405	BSS563LED230/830II GL–DM50 CLOLS850 SRTB	0.01 %

Product Data

Order Code	Full Product Name	Product family code	Order Code	Full Product Name	Product family code
919008636280	BRS563LED120/740IIDM31CLOSRTBSTDEC13K60S	BRS563	919008634406	BSS563 LED300/830IIGL–DM50 CLO-LS850C10K	BSS563
919008634399	BSS562LED170/830IIGL–DM50CLO-LS850SRTB	BSS562	919008634397	BRS562 LED80/830II DM50 GR CLOLS850 C10K	BRS562
919008634395	BRS562 LED56/830IIGLDM50CLO-LS850 SRTB	BRS562	919008634939	BRS562 LED58/740 II DM11 GR CLO C10K FQQ	BRS562
919008634398	BDS562 LED170/830IIGL–DM50 CLO-LS850C10K	BDS562	919008634396	BRS562 LED56/830IIGLDM50 CLO–LS850 C10K	BRS562
919008634404	BDS563 LED100/830II GL–DM50CLOLS850 C10K	BDS563	919008634405	BSS563LED230/830II GL–DM50 CLOLS850 SRTB	BSS563

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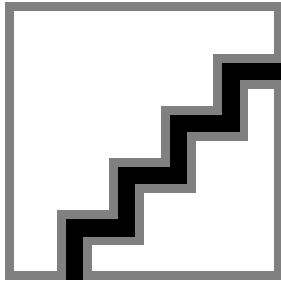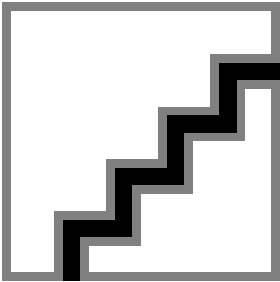# Copenhagen LED gen2 large & mega

Polar Wide Diagrams
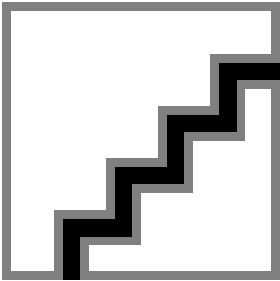
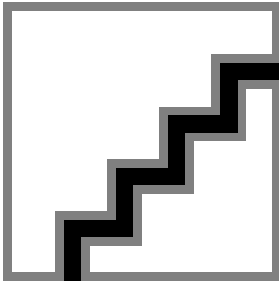Polar Normal (separate) – BRS562I – 919008634396
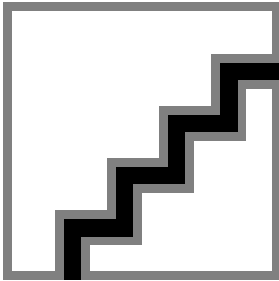
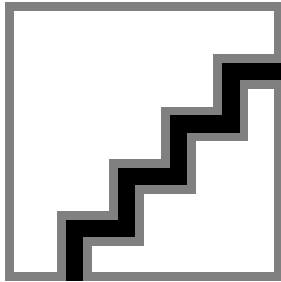Polar Normal (separate) – BRS562I – 919008634397

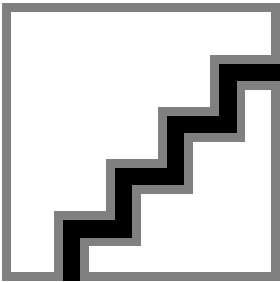Polar Normal (separate) – BRS562I – 919008634399

Polar Normal (separate) – BRS562I – 919008634398

Polar Normal (separate) – BRS563I – 919008634404

Polar Normal (separate) – BRS563I – 919008634406

Polar Normal (separate) – BRS563I – 919008634405

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2025, May 20 – data subject to change