

Operating Instructions LED Streetlights

(Please, read carefully before starting operation)

Version: 17.01.2017

Models 603, 604, 605, 606 Round Luminaire

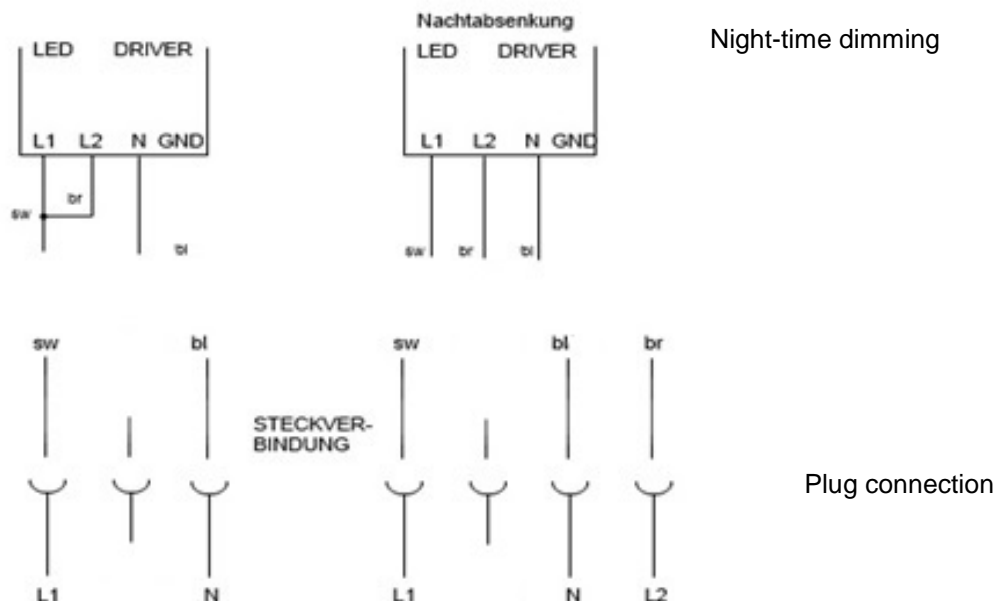
Technical Specifications:

Rated voltage	230 Volt AC
Rated amperage	0.8 A
Power supply	Interference suppressed acc. to DIN EN 61000-6-3/-4, EN 55011, EN 55022 Cl. B, power factor corrected
Power factor BöSha LED driver	Cos ϕ = 0.96 at nominal load
Type of protection	Class II acc. to VDE 0140 (DIN EN 61140)
Safety extra-low voltage (SELV)	Acc. to EN 61347-2-13
Degree of enclosure protection	IP 54
System performance	22 / 30 / 42 Watt
Manufactured according to	VDE 0710/0711
Wired ready for operation acc. to	EN 60598
Ambient temperature	From - 40 °C to + 40 °C for > 100,000 hrs
Recommended mounting height	3.0 – 5.0 m
Maximum mounting height	5.0 m
Torque for pole mounting	30 Nm
Dimensions	Ø 630 x 500 mm
Weight	9.2 kg
Wind-exposed area	0.16 m ²
Standard connector	Wieland plug series ST 18

Installation and connection:

Normally, the luminaires are mounted on a pole; for this purpose, depending on the type of luminaire, 1 - 3 hexagon socket head cap screws have to be fastened.

Due to the pre-assembled cable opening of the luminaire is **not** necessary.



The connecting cable has to be connected according to the circuit diagram.

In the presence of night-time dimming the brown cable has to be connected to L2.

Starting operation:

Installation has to be carried out by suitably qualified staff only. For damages resulting from improper handling we do not assume any liability.

For transport protection the luminaire is equipped with a blind plate. Before final installation of the luminaire the knurled screw has to be unscrewed and the original cover has to be screwed on.

In order to seal the luminaire it is absolutely necessary to apply the supplied O-ring before screwing on the knurled screw.

- Open pole terminal compartment
- Determine voltage free status and secure against re-energizing
- Mount the LED luminaire on the pole; for this purpose insert the connecting cable of the luminaire completely into the pole.
- If necessary, align the luminaire on the pole and fasten the luminaire by means of the fixing screws.
- Connect the supply cable and perform function test.

Technical notice:

For supply connection a mains terminal has to be used.

The terminal compartment has to have at least the same degree of enclosure protection as the luminaire.

The cable gland between luminaire compartment and terminal compartment is tightened firmly and, in addition, sealed with a sealing compound.

Number of clamping points: 3 (4 in models with night-time dimming)

Rated voltage: 230 V AC

Rated amperage: 0.8

Transport and storage:

Store the luminaires in a dry, dust-free environment. In the event of improper storage any warranty claims will not be accepted.

The LED light sources must not be exchanged by the user – only by the manufacturer. If exchange of the LED modules should become necessary the luminaire has to be returned to the manufacturer (BöSha).

LED Round Luminaire with Skylight and Umbrella Roof Model 603

BöSha round luminaires interpret the classical shape of the round luminaire in a new contemporary way. Consequently, a light, transparent luminaire without external struts was created, combining timeless design with the latest LED technology. Not only does it impress with its unsurpassed energy efficiency, its needs-based light distribution and control but also with its sturdiness and durability.

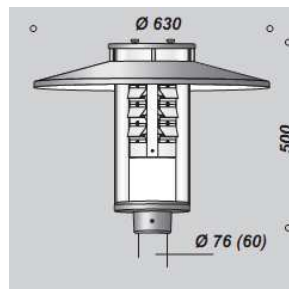
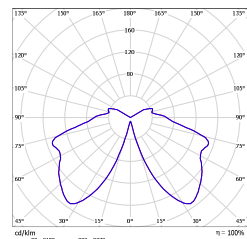
Various roof shapes, pleasant light colours, possibilities of dimming and night-time dimming as well as segmental assembly for partial shading of house fronts ensure high acceptance. Optionally, a skylight provides additional decorative aspects.

The sober and reserved shape can be integrated anywhere, creates an attractive cityscape and upgrades squares and parks, prestigious city areas, residential and collecting roads. Furthermore, the round luminaires are suited for outdoor grounds of administrative buildings, hospitals and schools.

Pay attention to the quality and efficacy of the product. Having an optimized luminous intensity distribution, the quantity of luminaires can be reduced due to larger luminaire spacing. The luminaires are equipped with highly efficient LED modules – supplying **nominally 120 lm/W** at 5,000 K.

Typical Application Areas: (Lighting Classes)

ME2	<input type="checkbox"/>	S2	<input type="checkbox"/>
ME3	<input type="checkbox"/>	S3	<input type="checkbox"/>
ME4	<input type="checkbox"/>	S4	<input checked="" type="checkbox"/>
ME5	<input type="checkbox"/>	S5	<input checked="" type="checkbox"/>
ME6	<input type="checkbox"/>	S6	<input checked="" type="checkbox"/>



- Enclosure: cast aluminium / umbrella roof: sheet aluminium, powder coated DB 703 (graphite grey), other RAL colours on request
- Acrylic cylinder (PMMA)
- Recommended pole height: 3.0 – 5.0 m
- Multichip-On-Board-LED
- Light distribution: rotationally symmetric / asymmetrical
- Optionally, to be equipped segmentally (asymmetrical)
- Colour temperatures: warm white (3,000 K), neutral white (4,000 K), daylight white (5,000 K)
- Degree of protection IP 54
- LED module and electronic ballast separately removable and plug-connected
- Night-time dimming (power reduction down to 50 % via 2nd phase)
- Optionally, the luminaires can be equipped with a telemanagement system

Model description and performance variants

Model	Description	Performance	Weight Luminaire head	Wind load	Effective lumen output (at 5,000 K)
603	Round Luminaire with skylight and umbrella roof	22W, 30W, 42W	9.2 kg	0.16 m ²	1,901 / 2,592 / 3,629

Subject to technical modifications

LED Round Luminaire without Skylight with Disk Roof Model 604

BöSha round luminaires interpret the classical shape of the round luminaire in a new contemporary way. Consequently, a light, transparent luminaire without external struts was created, combining timeless design with the latest LED technology. Not only does it impress with its unsurpassed energy efficiency, its needs-based light distribution and control but also with its sturdiness and durability.

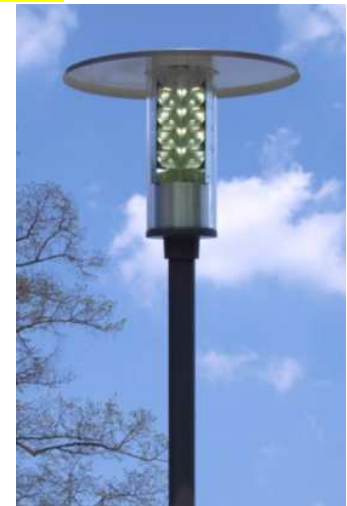
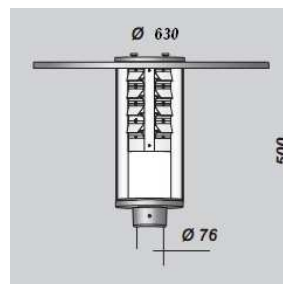
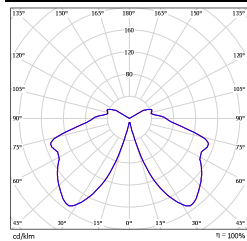
Various roof shapes, pleasant light colours, possibilities of dimming and night-time dimming as well as segmental assembly for partial shading of house fronts ensure high acceptance. Optionally, a skylight provides additional decorative aspects.

The sober and reserved shape can be integrated anywhere, creates an attractive cityscape and upgrades squares and parks, prestigious city areas, residential and collecting roads. Furthermore, the round luminaires are suited for outdoor grounds of administrative buildings, hospitals and schools.

Pay attention to the quality and efficacy of the product. Having an optimized luminous intensity distribution, the quantity of luminaires can be reduced due to larger luminaire spacing. The luminaires are equipped with highly efficient LED modules – supplying **nominally 120 lm/W** at 5,000 K.

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ME5	<input type="checkbox"/>	S5	<input checked="" type="checkbox"/>
ME6	<input type="checkbox"/>	S6	<input checked="" type="checkbox"/>



- Enclosure: cast aluminium / disk roof: sheet aluminium, powder coated DB 703 (graphite grey), other RAL colours on request
- Acrylic cylinder (PMMA)
- Recommended pole height: 3.0 – 5.0 m
- Multichip-On-Board-LED
- Light distribution: rotationally symmetric / asymmetrical
- Optionally, to be equipped segmentally (asymmetrical)
- Colour temperatures: warm white (3,000 K), neutral white (4,000 K), daylight white (5,000 K)
- Degree of protection IP 54
- LED module and electronic ballast separately removable and plug-connected
- Night-time dimming (power reduction down to 50 % via 2nd phase)
- Optionally, the luminaires can be equipped with a telemanagement system

Model description and performance variants					
Model	Description	Performance	Weight Luminaire head	Wind load	Effective lumen output (at 5,000 K)
604	Round Luminaire without skylight, with disk roof	22W, 30W, 42W	9.2 kg	0.15 m ²	1,901 / 2,592 / 3,629

Subject to technical modifications

LED Round Luminaire without Skylight with Umbrella Roof Model 605

BöSha round luminaires interpret the classical shape of the round luminaire in a new contemporary way. Consequently, a light, transparent luminaire without external struts was created, combining timeless design with the latest LED technology. Not only does it impress with its unsurpassed energy efficiency, its needs-based light distribution and control but also with its sturdiness and durability.

Various roof shapes, pleasant light colours, possibilities of dimming and night-time dimming as well as segmental assembly for partial shading of house fronts ensure high acceptance. Optionally, a skylight provides additional decorative aspects.

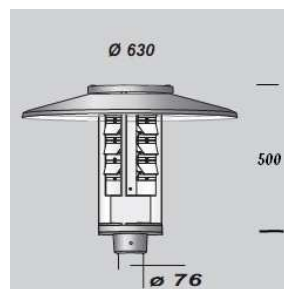
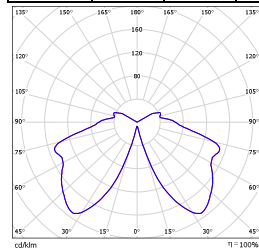
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ME4	<input type="checkbox"/>	S4	<input checked="" type="checkbox"/>
ME5	<input type="checkbox"/>	S5	<input checked="" type="checkbox"/>
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- Enclosure: cast aluminium / umbrella roof: sheet aluminium, powder coated DB 703 (graphite grey), other RAL colours on request
- Acrylic cylinder (PMMA)
- Recommended pole height: 3.0 – 5.0 m
- Multichip-On-Board-LED
- Light distribution: rotationally symmetric / asymmetrical
- Optionally, to be equipped segmentally (asymmetrical)
- Colour temperatures: warm white (3,000 K), neutral white (4,000 K), daylight white (5,000 K)
- Degree of protection IP 54
- LED module and electronic ballast separately removable and plug-connected
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Model description and performance variants					
Model	Description	Performance	Weight Luminaire head	Wind load	Effective lumen output (at 5,000 K)
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Subject to technical modifications

LED Round Luminaire with Skylight with Disk Roof Model 606

BöSha round luminaires interpret the classical shape of the round luminaire in a new contemporary way. Consequently, a light, transparent luminaire without external struts was created, combining timeless design with the latest LED technology. Not only does it impress with its unsurpassed energy efficiency, its needs-based light distribution and control but also with its sturdiness and durability.

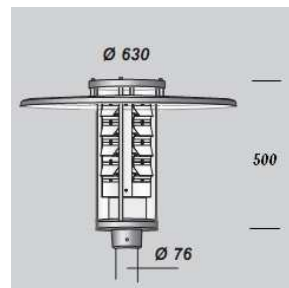
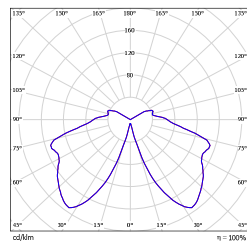
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