



New Products 2023/2025



Metaspace is a new pole-top luminaire series with innovative light sources and optics. It is designed to meet high demands for sustainable illumination. Excellent glare control is achieved by indirect reflectors with LEDs which are completely shielded from view. These precise optics direct light solely onto the target area – the ground. Stray light into the sky is avoided. By using tuneable warm white colour temperatures, the orientation behaviour of insects remains undisturbed.

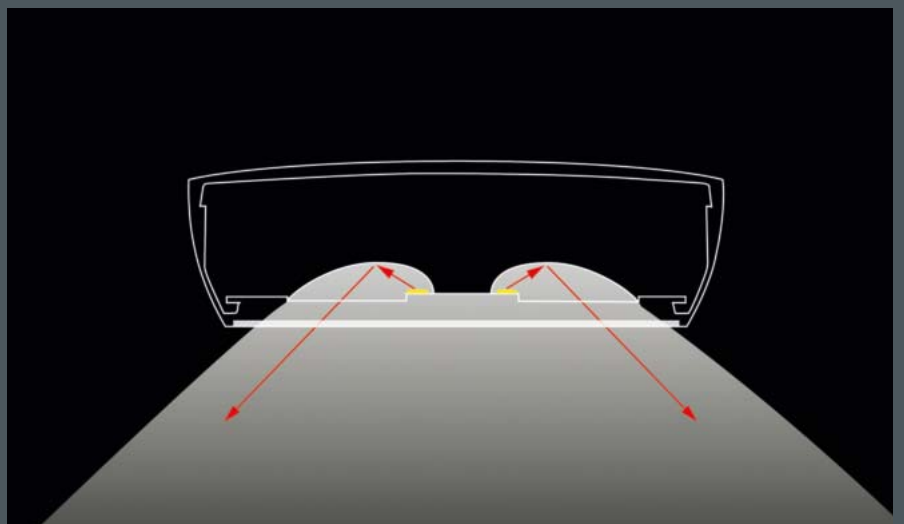


With dark sky compliant optics and perfect glare control Metaspace delivers the best light quality for humans and nocturnal animals.



With their exemplary design the luminaires are ideal for use in urban or landscaped architecture.

The light of LED modules, which are completely shielded from view, is projected onto an indirect reflector and redirected on the target area. This optic achieves excellent glare control.





Metaspace, asymmetrical beam

Part number*	Colour	Weight	Light source	Luminous flux	Main beam angle γ
8 215 346 049	black	5.1 kg	6 x LED module 6.3 W (38 W) warm white (3000 K)	3741 lm	63°
8 215 366 049	white				
8 215 356 049	silver grey				

Metaspace, asymmetrical beam, High Output

Part number*	Colour	Weight	Light source	Luminous flux	Main beam angle γ
8 216 346 049	black	5.1 kg	6 x LED module 10.8 W (65 W) warm white (3000 K)	6072 lm	63°
8 216 366 049	white				
8 216 356 049	silver grey				

Metaspace, asymmetrical wide beam

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 215 346 089	black	5.1 kg	6 x LED module 6.3 W (38 W) warm white (3000 K)	3661 lm	C 0 – 180	C 90 – 270
8 215 366 089	white				64°	133°
8 215 356 089	silver grey					

Metaspace, asymmetrical wide beam High Output

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 216 346 089	black	5.1 kg	6 x LED Modul 10.8 W (65 W) warm white (3000 K)	5942 lm	C 0 – 180	C 90 – 270
8 216 366 089	white				64°	133°
8 216 356 089	silver grey					

Metaspace, lateral wide beam

Part number*	Colour	Weight	light source	Luminous flux	Beam angle γ (FWHM)	
8 215 346 059	black	5.1 kg	6 x LED module 6.3 W (38 W) warm white (3000 K)	3647 lm	C 0 – 180	C 90 – 270
8 215 366 059	white				46°	142°
8 215 356 059	silver grey					

Metaspace, lateral wide beam, High Output

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 216 346 059	black	5.1 kg	6 x LED module 10.8 W (65 W) warm white (3000 K)	5919 lm	C 0 – 180	C 90 – 270
8 216 366 059	white				46°	142°
8 216 356 059	silver grey					

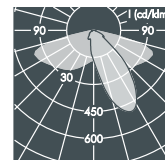
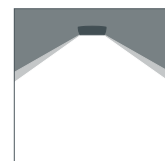
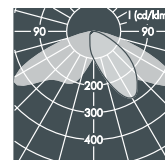
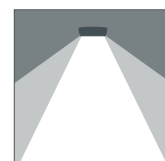
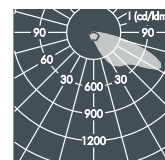
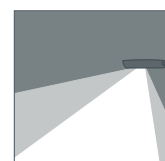
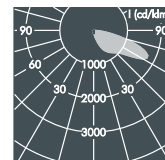
Metaspace, Street Optic (direct optic)

Part number*	Colour	Weight	light source	Luminous flux	Beam angle γ (FWHM)	
8 215 346 099	black	5.0 kg	6 x LED module 8.6 W (52 W)	7204 lm	C 0 – 180	C 90 – 270
8 215 366 099	white				36°	155°
8 215 356 099	silver grey		warm white (3000 K)			

* Find more versions on page 5.

Metaspace

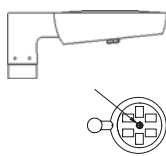
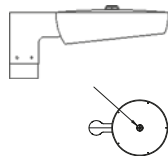
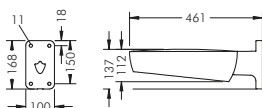
With highly efficient LED modules,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: max. 3 SDCM
Service life: L80/B20 > 50 000 h
protection class I, IP65 , IK08
windage area AWW 0.056 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
highly efficient metallised PC reflector,
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
5 stainless steel screws,
pole top fitter for poles Ø 60/76 mm,
4 M8 grub screws,
M20 cable gland,
with 8 m cable H07RN-F3G1,
integral driver (AC/DC)



LED

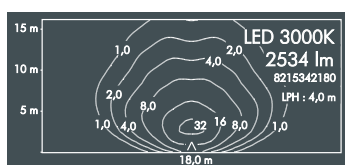
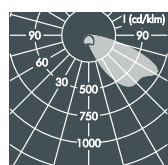
Luminaires available
in 2200 K or other colour temperatures upon request





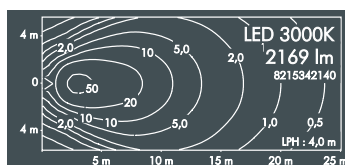
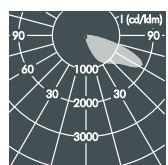
The luminaires can be equipped with a Zhaga-18 interface for communication and sensing on the top and at the bottom.

Part number	Description
. . . . 1	Luminaire for wall mounting
. . . 7	Protection class II luminaire
. . . 8	Luminaire in "High Output" version for protection class II
. 7 . . .	Luminaire with warm white LED module (2700 K)
. 1 . .	Dimmable luminaire (DALI)
. 3 . .	Luminaire with Zhaga-18 interface for communication (top)
. 4 . .	Luminaire with Zhaga-18 interface for sensing (bottom)
. 5 . .	Luminaire with Zhaga-18 interface for communication (top) and sensing (bottom)



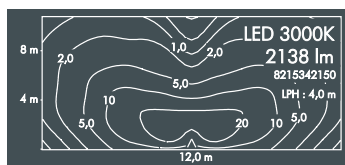
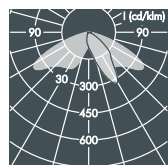
Metaspace, Adjustable White, asymmetrical wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 215 342 189	black	5.1 kg	12 x LED warm white (2200 K) and 12 x LED warm white (3000 K) (max 27 W)	2091 lm to 2534 lm	C 0 - 180 60° C 90 - 270 116°
8 215 362 189	white				
8 215 352 189	silver grey				



Metaspace, Adjustable White, asymmetrical beam

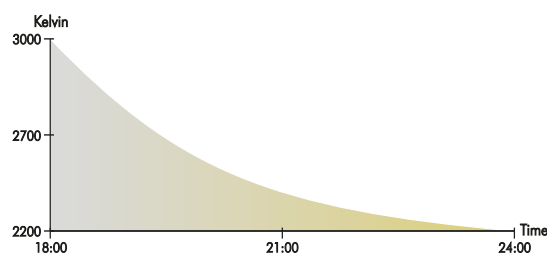
Part number	Colour	Weight	Light source	Luminous flux	Main beam angle γ
8 215 342 149	black	5.1 kg	12 x LED warm white (2200 K) and 12 x LED warm white (3000 K) (max 27 W)	2017 lm to 2169 lm	63°
8 215 362 149	white				
8 215 352 149	silver grey				



Metaspace, Adjustable White, lateral wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 215 342 159	black	5.1 kg	12 x LED warm white (2200 K) and 12 x LED warm white (3000 K) (max 27 W)	1989 lm to 2138 lm	C 0 - 180 46° C 90 - 270 142°
8 215 362 159	white				
8 215 352 159	silver grey				

Metaspace Adjustable White



With the Adjustable White light control colour temperatures can be adapted to the needs of sustainable illumination during the night hours and throughout the season.



Operating luminaires at approximately 3000 Kelvin is efficient and recommended during busy hours.



Later in the evening the luminaires are switched to operate with warm white colour temperatures. The light quality becomes more inviting and insects are attracted less.



During the late hours the luminaires are operated with 2200 Kelvin and a low proportion of blue light. The orientation behaviour of insects and nocturnal animals is disturbed only minimally.

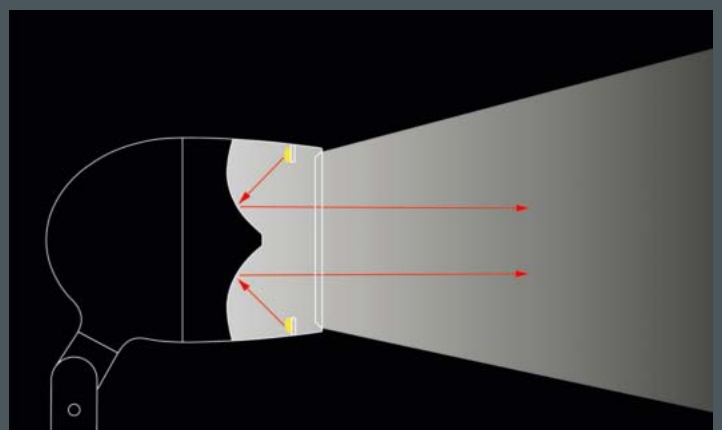


The new floodlight series Metaspot combines exemplary design with innovative optics. The elliptical shape of the luminaires harmonizes especially well with landscape architecture. The new Darkring optics are a breakthrough development for effective glare control. For Metaspot a pole-top fitter with an integral Zhaga-18 interface is available as an accessory. By the use of an antenna, up to 4 luminaires on one pole can be controlled and monitored individually. In addition to pole luminaires, there are versions for surface mounting.

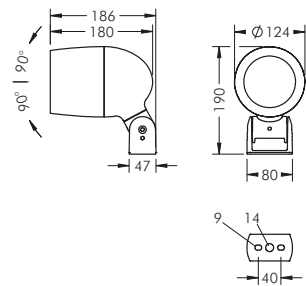


Green Heart,
University of Birmingham
Lighting design: Speirs Major, London

Metaspot pole luminaires with various sizes and optics can be combined for imaginative lighting of exterior spaces. The floodlights are equipped with a turn-and-tilt fixing system for flexible orientation. Possible applications range from uniform illumination of paths and public areas to highlighting of objects. A gobo projector version completes the series.



With the innovative Darkring optic light from a circular LED board is projected onto the target area via an indirect reflector. The light source is shielded from view and excellent glare control is achieved.

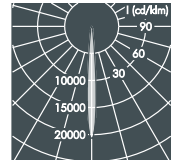
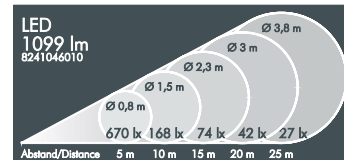


Metaspot 1 with mounting bracket

With high performance LED module (Zhaga),
integral temperature monitoring device,
CRI: > 80, Colour tolerance: 3 SDCM
Service life: L80/B10 > 50 000 h
protection class I or II, IP65 , IK08
windage area AW 0.023 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
highly efficient aluminium reflector or
PMMA lens (Street Optic),
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
toolless twist lock for closure,
mounting bracket: 2 drilled holes Ø 9 mm,
spacing 40 mm, 1 centre hole Ø 14 mm,
tilt range 180°, M20 cable gland,
integral driver (AC/DC)

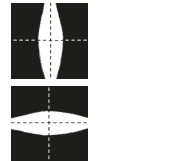
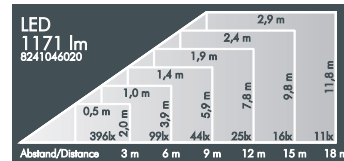
Metaspot 1, narrow beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 241 046 019	black	2.1 kg	1 x LED module 15 W warm white (3000 K)	1099 lm	8°
8 241 066 019	white				
8 241 056 019	silver grey				



Metaspot 1, linear beam spread, vertical

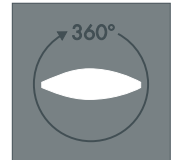
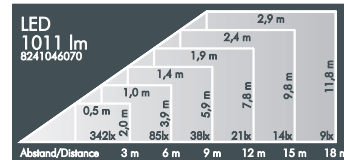
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 241 046 029	black	2.1 kg	1 x LED module 15 W warm white (3000 K)	1171 lm	C 0 – 180
8 241 066 029	white				C 90 – 270
8 241 056 029	silver grey				36°



. 3. Luminaire with linear beam spread, horizontal

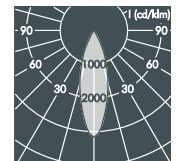
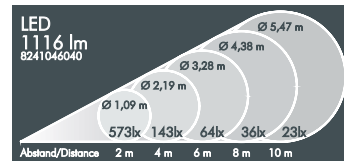
Metaspot 1, linear beam spread, rotatable

Part number	Colour	Description	Luminous flux	Beam angle γ (FWHM)
8 241 046 079	black	Luminaire with external ribbed glass spreader lense, continuously adjustable through 360° from outside the luminaire	1011 lm	C 0 – 180
8 241 066 079	white			C 90 – 270
8 241 056 079	silver grey			36°



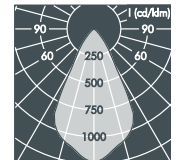
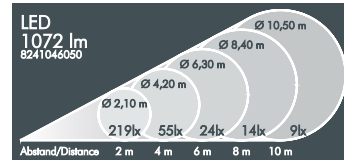
Metaspot 1, medium wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 241 046 049	black	2.1 kg	1 x LED module 15 W warm white (3000 K)	1116 lm	31°
8 241 066 049	white				
8 241 056 049	silver grey				



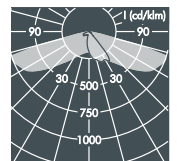
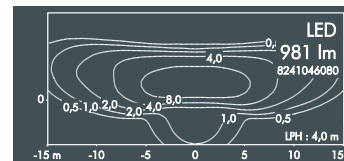
Metaspot 1, wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 241 046 059	black	2.1 kg	1 x LED module 15 W warm white (3000 K)	1072 lm	55°
8 241 066 059	white				
8 241 056 059	silver grey				



Metaspot 1, Street Optic

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 241 046 089	black	2.2 kg	1 x LED module 14 W warm white (3000 K)	981 lm	C 0 – 180
8 241 066 089	white				C 90 – 270
8 241 056 089	silver grey				41°



Part number	Description
. . . 5	Protection class II luminaire
. 7 . . .	Luminaire with warm white LED module (2700 K)
. 1 . .	Dimmable luminaire (DALI)



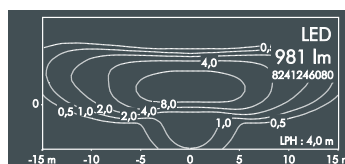
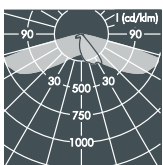
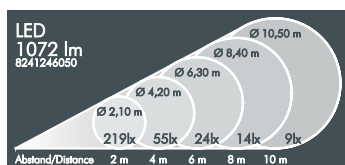
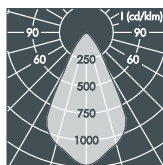
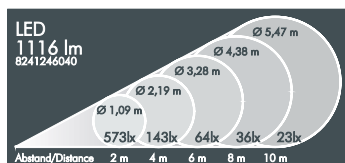
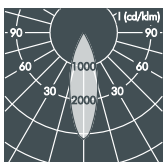
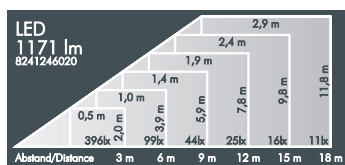
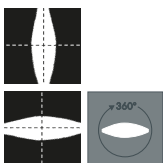
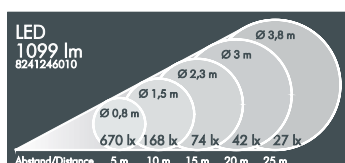
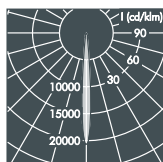
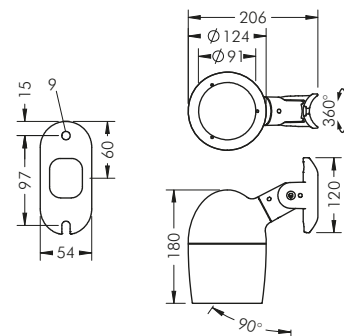
LED

Luminaires available
in 2200 K or other colour temperatures upon request



Metaspot 1 pole luminaire

With high performance LED module (Zhaga),
integral temperature monitoring device,
CRI: > 80, Colour tolerance: 3 SDCM
Service life: L80/B10 > 50 000 h
protection class I or II, IP65 , IK08
windage area A_W 0.026 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
highly efficient aluminium reflector or
PMMA lens (Street Optic),
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
toolless twist lock for closure,
for installation on poles Ø 60 - 100 mm,
tiltable base made of powder coated aluminium,
2 drilled holes Ø 9 mm, spacing 97 mm,
1 centre hole Ø 40 mm, tilt range 90°,
swivel range 360°, M20 cable gland,
integral driver (AC/DC)



Metaspot 1 pole luminaire, narrow beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 241 246 019	black	2.1 kg	1 x LED module 15 W	1099 lm	8°
8 241 266 019	white		warm white (3000 K)		
8 241 256 019	silver grey				

Metaspot 1 pole luminaire, linear beam spread, vertical

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 241 246 029	black	2.1 kg	1 x LED module 15 W	1171 lm	C 0 - 180
8 241 266 029	white		warm white (3000 K)		C 90 - 270
8 241 256 029	silver grey				36°

... 3. Luminaire with linear beam spread, horizontal

... 7. Luminaire with linear beam spread, rotatable

Metaspot 1 pole luminaire, medium wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 241 246 049	black	2.1 kg	1 x LED module 15 W	1116 lm	31°
8 241 266 049	white		warm white (3000 K)		
8 241 256 049	silver grey				

Metaspot 1 pole luminaire, wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 241 246 059	black	2.1 kg	1 x LED module 15 W	1072 lm	55°
8 241 266 059	white		warm white (3000 K)		
8 241 256 059	silver grey				

Metaspot 1 pole luminaire, Street Optic

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 241 246 089	black	2.2 kg	1 x LED module 14 W	981 lm	C 0 - 180
8 241 266 089	white		warm white (3000 K)		C 90 - 270
8 241 256 089	silver grey				41°

Part number Description

... 5 ...	Protection class II luminaire
... 7 ...	Luminaire with warm white LED module (2700 K)
... 1 ...	Dimmable luminaire (DALI)

Accessories Metaspot 1

Part number	Description
129 0 728 940	Radial louvre, internal, factory fitted
129 0 752 000	Honeycomb louvre, internal, factory fitted
	Colour
122 0 571 940	black
122 0 571 960	white
122 0 571 950	silver grey
	Cowl, Length 38 mm
122 0 631 940	black
122 0 631 960	white
122 0 631 950	silver grey
	Cowl, Length 63 mm

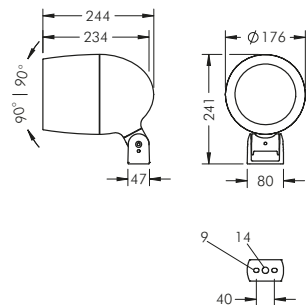


LED

Luminaires available

in 2200 K or other colour temperatures upon request



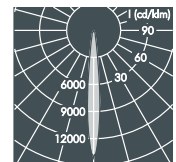
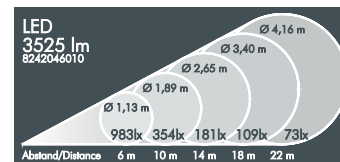


Metaspot 2 with mounting bracket

With high performance LED module (Zhaga), integral temperature monitoring device, CRI: > 80, Colour tolerance: 3 SDCM
Service life: L90/B10 > 50 000 h
protection class I or II, IP65 , IK08
windage area AW 0.042 m²
corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated,
highly efficient aluminium reflector or lens made of optical silicon (Street Optic),
all exterior steel parts are stainless steel, tempered safety glass, silicon gasket,
toolless twist lock for closure,
mounting bracket: 2 drilled holes Ø 9 mm, spacing 40 mm, 1 centre hole Ø 14 mm,
tilt range 180°, M20 cable gland,
integral driver (AC/DC)

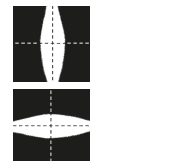
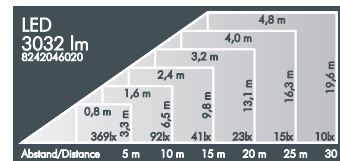
Metaspot 2, narrow beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 242 046 019	black	3.6 kg	1 x LED module 35 W warm white (3000 K)	3525 lm	10°
8 242 066 019	white				
8 242 056 019	silver grey				



Metaspot 2, linear beam spread, vertical

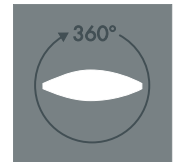
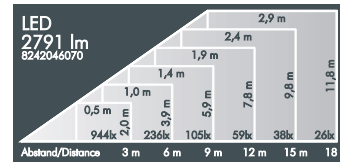
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 242 046 029	black	3.6 kg	1 x LED module 35 W warm white (3000 K)	3032 lm	C 0 – 180
8 242 066 029	white				C 90 – 270
8 242 056 029	silver grey				36°



. 3. Luminaire with linear beam spread, horizontal

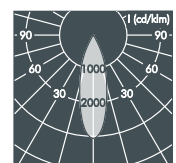
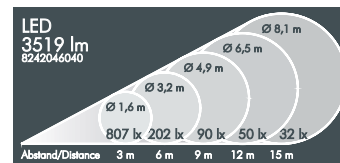
Metaspot 2, linear beam spread, rotatable

Part number	Colour	Description	Luminous flux	Beam angle γ (FWHM)
8 242 046 079	black	Luminaire with external ribbed glass spreader lense, continuously adjustable through 360° from outside the luminaire	2791 lm	C 0 – 180
8 242 066 079	white			C 90 – 270
8 242 056 079	silver grey			36°



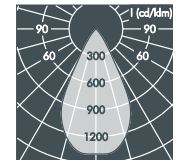
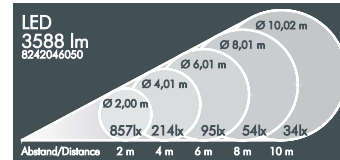
Metaspot 2, medium wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 242 046 049	black	3.6 kg	1 x LED module 35 W warm white (3000 K)	3519 lm	30°
8 242 066 049	white				
8 242 056 049	silver grey				



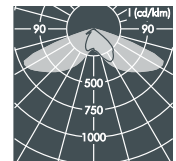
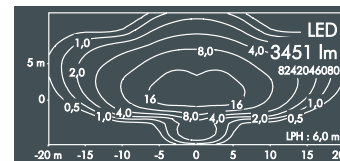
Metaspot 2, wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 242 046 059	black	3.6 kg	1 x LED module 35 W warm white (3000 K)	3588 lm	53°
8 242 066 059	white				
8 242 056 059	silver grey				



Metaspot 2, Street Optic

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 242 046 089	black	3.7 kg	1 x LED module 35 W warm white (3000 K)	3451 lm	C 0 – 180
8 242 066 089	white				C 90 – 270
8 242 056 089	silver grey				51°



Part number	Description
. . . 6	Protection class II luminaire
. 7 . . .	Luminaire with warm white LED module (2700 K)
. 1 . .	Dimmable luminaire (DALI)
. 3 . .	Luminaire with Zhaga-18 interface for communication

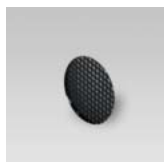
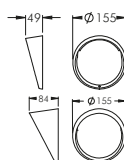
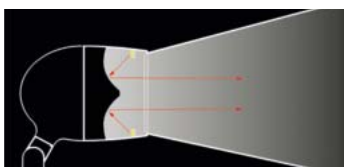
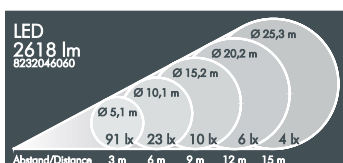
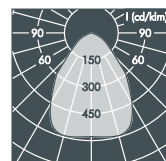
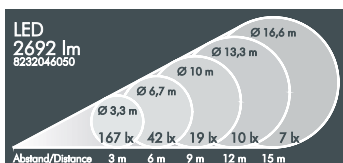
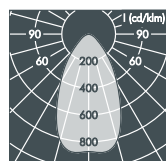
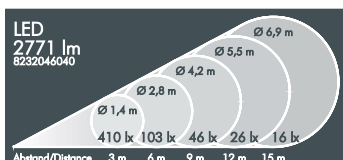
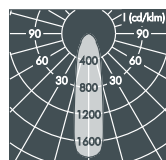
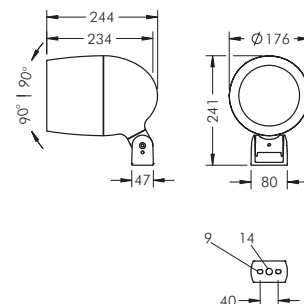


LED Luminaire available
in 2200 K or other colour temperatures upon request



Metaspot 2 Darkring Optic with mounting bracket

With highly efficient LED modules,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: 3 SDCM
Service life: L80/B10 > 50 000 h
protection class I or II, IP65 , IK08
windage area A_W 0.042 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
light source completely shielded,
high gloss aluminum reflector,
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
toolless twist lock for closure,
mounting bracket: 2 drilled holes Ø 9 mm,
spacing 40 mm, 1 centre hole Ø 14 mm,
tilt range 180°, M20 cable gland,
integral driver (AC/DC)



LED

Luminaires available
in 2200 K or other colour temperatures upon request



Metaspot 2 Darkring Optic, medium wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 232 046 049	black	3.8 kg	3 x LED module 13 W (39 W) warm white (3000 K)	2771 lm	27°
8 232 066 049	white				
8 232 056 049	silver grey				

Metaspot 2 Darkring Optic, wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 232 046 059	black	3.8 kg	3 x LED module 13 W (39 W) warm white (3000 K)	2692 lm	58°
8 232 066 059	white				
8 232 056 059	silver grey				

Metaspot 2 Darkring Optic, extra wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 232 046 069	black	3.8 kg	3 x LED module 13 W (39 W) warm white (3000 K)	2618 lm	81°
8 232 066 069	white				
8 232 056 069	silver grey				

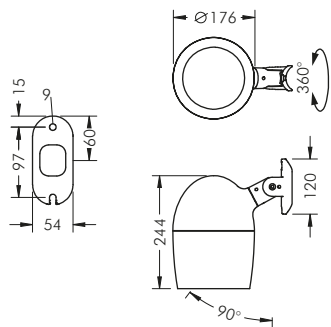
Part number	Description
... 6 ...	Protection class II luminaire
... 7 ...	Luminaire with warm white LED module (2700 K)
... 1 ...	Dimmable luminaire (DALI)
... 3 ...	Luminaire with Zhaga-18 interface for communication

Accessories Metaspot 2 external, for retro-fitting

		Description: Cowl , external, stainless steel			
Part number	Colour	Cowl, Length 49 mm	Part number	Colour	Cowl, Length 84 mm
122 0 572 940	black		122 0 632 940	black	
122 0 572 960	white		122 0 632 960	white	
122 0 572 950	silver grey		122 0 632 950	silver grey	

Accessories Metaspot 2 internal, factory fitted (not available for Darkring Optic/Street Optic)

Part number	Description
129 0 729 940	Radial louvre , internal (factory fitted), to reduce lateral glare
129 0 893 000	Honeycomb louvre , internal (factory fitted), to avoid glare

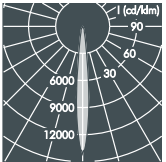
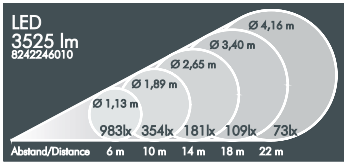


Metaspot 2 pole luminaire

With high performance LED module (Zhaga), integral temperature monitoring device, CRI: > 80, Colour tolerance: 3 SDCM
Service life: L90/B10 > 50 000 h
protection class I or II, IP65 , IK08
windage area A_W 0.045 m²
corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated,
highly efficient aluminium reflector or lens made of optical silicon (Street Optic),
all exterior steel parts are stainless steel, tempered safety glass, silicon gasket,
toolless twist lock for closure,
for installation on poles Ø 60 - 100 mm, tiltable base made of powder coated aluminium,
2 drilled holes Ø 9 mm, spacing 97 mm, 1 centre hole Ø 40 mm, tilt range 90°,
swivel range 360°, M20 cable gland, integral driver (AC/DC)

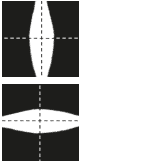
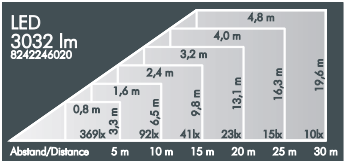
Metaspot 2 pole luminaire, narrow beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 242 246 019	black	3.6 kg	1 x LED module 35 W warm white (3000 K)	3525 lm	10°
8 242 266 019	white				
8 242 256 019	silver grey				



Metaspot 2 pole luminaire, linear beam spread, vertical

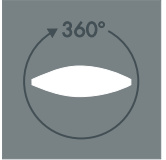
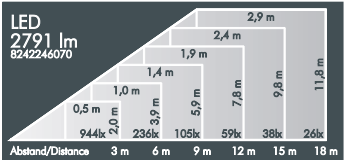
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 242 246 029	black	3.6 kg	1 x LED module 35 W warm white (3000 K)	3032 lm	C 0 – 180
8 242 266 029	white				C 90 – 270
8 242 256 029	silver grey				36°



. 3. Luminaire with linear beam spread, horizontal

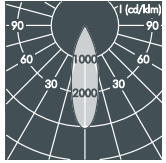
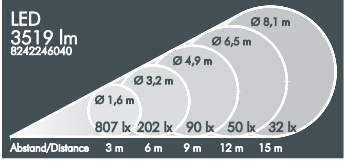
Metaspot 2 pole luminaire, linear beam spread, rotatable

Part number	Colour	Description	Luminous flux	Beam angle γ (FWHM)
8 242 246 079	black	Luminaire with external ribbed glass spreader lens, continuously adjustable through 360° from outside the luminaire	2791 lm	C 0 – 180
8 242 266 079	white			C 90 – 270
8 242 256 079	silver grey			36°



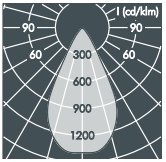
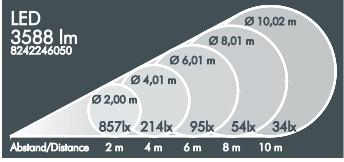
Metaspot 2 pole luminaire, medium wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 242 246 049	black	3.6 kg	1 x LED module 35 W warm white (3000 K)	3519 lm	30°
8 242 266 049	white				
8 242 256 049	silver grey				



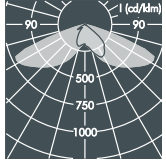
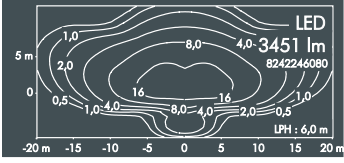
Metaspot 2 pole luminaire, wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 242 246 059	black	3.6 kg	1 x LED module 35 W warm white (3000 K)	3588 lm	53°
8 242 266 059	white				
8 242 256 059	silver grey				



Metaspot 2 pole luminaire, Street Optic

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 242 246 089	black	3.7 kg	1 x LED module 35 W warm white (3000 K)	3451 lm	C 0 – 180
8 242 266 089	white				C 90 – 270
8 242 256 089	silver grey				51°



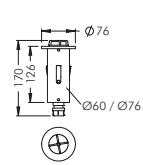
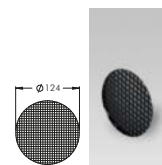
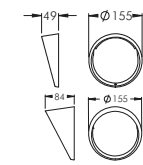
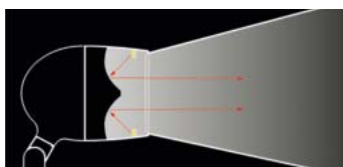
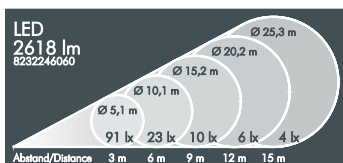
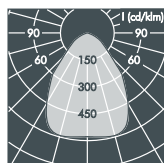
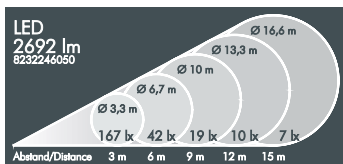
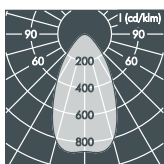
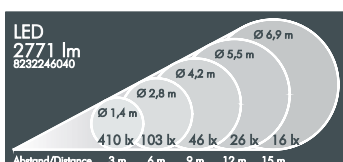
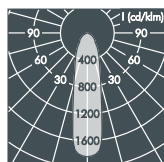
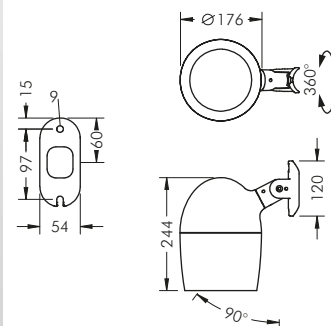
Part number	Description
. . . 6	Protection class II luminaire
. 7	Luminaire with warm white LED module (2700 K)
. 1	Dimmable luminaire (DALI)
. 2	Dimmable luminaire (DALI D4i)
. 3	Luminaire with Zhaga-18 interface for communication

LED Luminaire available in 2200 K or other colour temperatures upon request



Metaspot 2 Darkring Optic pole luminaire

With highly efficient LED modules,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: 3 SDCM
Service life: L80/B10 > 50 000 h
protection class I or II, IP65 , IK08
windage area A_W 0.045 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
light source completely shielded,
high gloss aluminum reflector,
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
toolless twist lock for closure,
for installation on poles Ø 60 - 100 mm,
tiltable base made of powder coated aluminium,
2 drilled holes Ø 9 mm, spacing 97 mm,
1 centre hole Ø 40 mm, tilt range 90°,
swivel range 360°, M20 cable gland,
integral driver (AC/DC)



LED

Luminaires available
in 2200 K or other colour temperatures upon request



Metaspot 2 Darkring Optic pole luminaire, medium wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 232 246 049	black	3.8 kg	3 x LED module 13 W (39 W) warm white (3000 K)	2271 lm	27°
8 232 266 049	white				
8 232 256 049	silver grey				

Metaspot 2 Darkring Optic pole luminaire, wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 232 246 059	black	3.8 kg	3 x LED module 13 W (39 W) warm white (3000 K)	2692 lm	58°
8 232 266 059	white				
8 232 256 059	silver grey				

Metaspot 2 Darkring Optic pole luminaire, extra wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 232 246 069	black	3.8 kg	3 x LED module 13 W (39 W) warm white (3000 K)	2618 lm	81°
8 232 266 069	white				
8 232 256 069	silver grey				

Part number	Description
... 6 ...	Protection class II luminaire
... 7 ...	Luminaire with warm white LED module (2700 K)
... 1 ...	Dimmable luminaire (DALI)
... 2 ...	Dimmable luminaire (DALI D4i)
... 3 ...	Luminaire with Zhaga-18 interface for communication

Accessories Metaspot 2 external, for retro-fitting

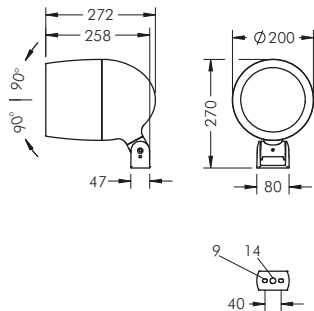
		Description: Cowl , external, stainless steel			
Part number	Colour	Cowl, Length 49 mm	Part number	Colour	Cowl, Length 84 mm
122 0 572 940	black		122 0 632 940	black	
122 0 572 960	white		122 0 632 960	white	
122 0 572 950	silver grey		122 0 632 950	silver grey	

Accessories Metaspot 2 internal, factory fitted (not available for Darkring Optic/Street Optic)

Part number	Description
129 0 729 940	Radial louvre , internal (factory fitted), to reduce lateral glare
129 0 893 000	Honeycomb louvre , internal (factory fitted), to avoid glare

Accessories Metaspot 2 pole luminaire

Ø 60 mm		Ø 76 mm	
Part number	Part number	Colour	Description
120 0 699 940	120 0 700 940	black	Post-top fitter for insertion, with Zhaga 18-interface, with 8 m cable, for control and monitoring of max. 4 luminaires with D4i LED driver
120 0 699 960	120 0 700 960	white	
120 0 699 950	120 0 700 950	silver grey	

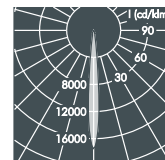
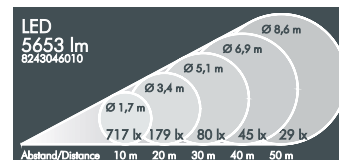


Metaspot 3 with mounting bracket

With high performance LED module (Zhaga),
integral temperature monitoring device,
CRI: > 80, Colour tolerance: 3 SDCM
Service life: L80/B10 > 50 000 h
protection class I or II, IP65 , IK08
windage area AW 0.052 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
highly efficient aluminium reflector or
lens made of optical silicon (Street Optic),
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
toolless twist lock for closure,
mounting bracket: 2 drilled holes Ø 9 mm,
spacing 40 mm, 1 centre hole Ø 14 mm,
tilt range 180°, M20 cable gland,
integral driver (AC/DC)

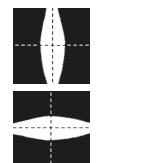
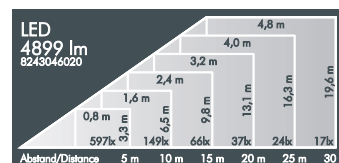
Metaspot 3, narrow beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 243 046 019	black	5.0 kg	1 x LED module 67 W warm white (3000 K)	5653 lm	9°
8 243 066 019	white				
8 243 056 019	silver grey				



Metaspot 3, linear beam spread, vertical

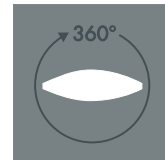
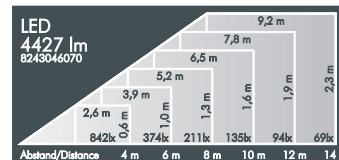
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 243 046 029	black	5.0 kg	1 x LED module 67 W warm white (3000 K)	4899 lm	C 0 – 180
8 243 066 029	white				C 90 – 270
8 243 056 029	silver grey				36°



. 3. Luminaire with linear beam spread, horizontal

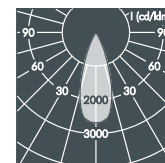
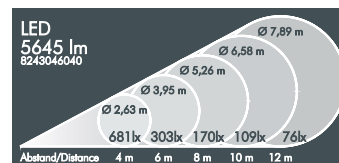
Metaspot 3, linear beam spread, rotatable

Part number	Colour	Description	Luminous flux	Beam angle γ (FWHM)
8 243 046 079	black	Luminaire with external ribbed glass spreader lense, continuously adjustable through 360° from outside the luminaire	4427 lm	C 0 – 180
8 243 066 079	white			C 90 – 270
8 243 056 079	silver grey			36°



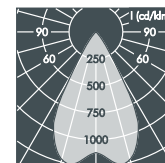
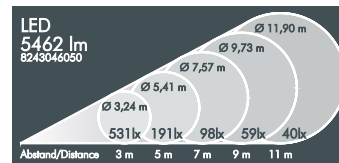
Metaspot 3, medium wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 243 046 049	black	5.0 kg	1 x LED module 67 W warm white (3000 K)	5645 lm	36°
8 243 066 049	white				
8 243 056 049	silver grey				



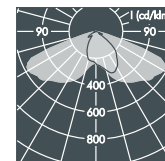
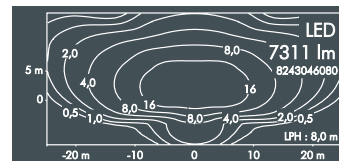
Metaspot 3, wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 243 046 059	black	5.0 kg	1 x LED module 67 W warm white (3000 K)	5462 lm	57°
8 243 066 059	white				
8 243 056 059	silver grey				



Metaspot 3, Street Optic

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 243 046 089	black	5.0 kg	1 x LED module 67 W warm white (3000 K)	7311 lm	C 0 – 180
8 243 066 089	white				C 90 – 270
8 243 056 089	silver grey				60°



Part number	Description
. . . 7	Protection class II luminaire
. 7	Luminaire with warm white LED module (2700 K)
. 1	Dimmable luminaire (DALI)
. 3	Luminaire with Zhaga-18 interface for communication
. 9 0	Luminaire with LED module RGBW * max. 49 W

* Not available for Street Optic/Darkring Optic

LED

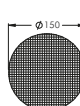
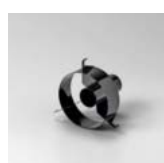
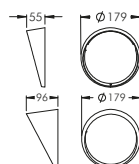
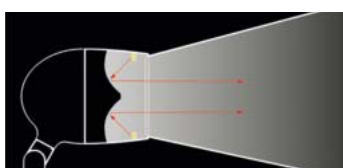
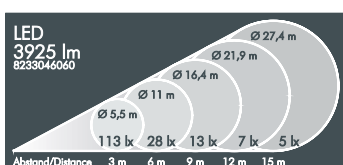
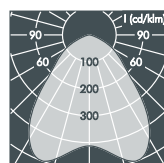
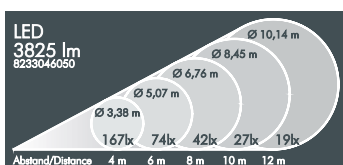
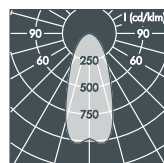
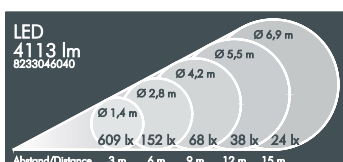
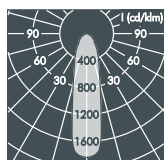
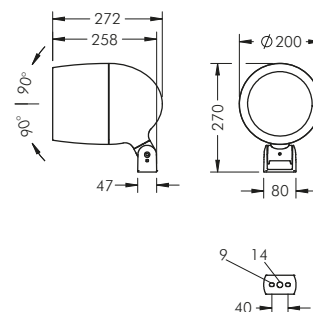
Luminaires available

in 2200 K or other colour temperatures upon request



Metaspot 3 Darkring Optic with mounting bracket

With highly efficient LED modules,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: 3 SDCM
Service life: L80/B10 > 50 000 h
protection class I or II, IP65 , IK08
windage area A_W 0.052 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
light source completely shielded,
high gloss aluminum reflector,
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
toolless twist lock for closure,
mounting bracket: 2 drilled holes Ø 9 mm,
spacing 40 mm, 1 centre hole Ø 14 mm,
tilt range 180°, M20 cable gland,
integral driver (AC/DC)



LED

Luminaires available
in 2200 K or other colour temperatures upon request



Metaspot 3 Darkring Optic, medium wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 233 046 049	black	4.4 kg	3 x LED module 19 W (58 W)	4113 lm	26°
8 233 066 049	white				
8 233 056 049	silver grey		warm white (3000 K)		

Metaspot 3 Darkring Optic, wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 233 046 059	black	4.4 kg	3 x LED module 19 W (58 W)	3825 lm	46°
8 233 066 059	white				
8 233 056 059	silver grey		warm white (3000 K)		

Metaspot 3 Darkring Optic, extra wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 233 046 069	black	4.4 kg	3 x LED module 19 W (58 W)	3925 lm	85°
8 233 066 069	white				
8 233 056 069	silver grey		warm white (3000 K)		

Part number	Description
... 6 ...	Protection class II luminaire
... .. 7 ...	Luminaire with warm white LED module (2700 K)
... .. 1 ...	Dimmable luminaire (DALI)
... .. 3 ..	Luminaire with Zhaga-18 interface for communication

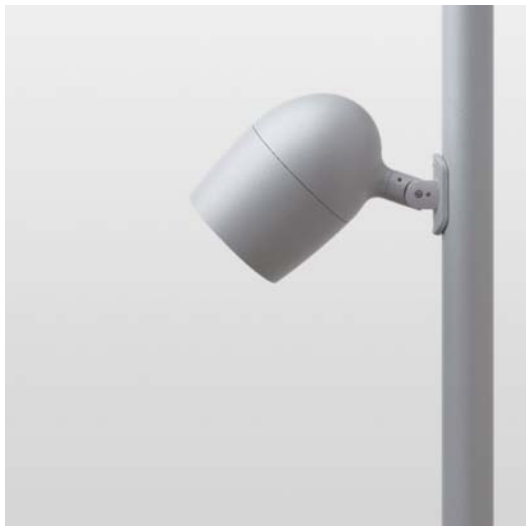
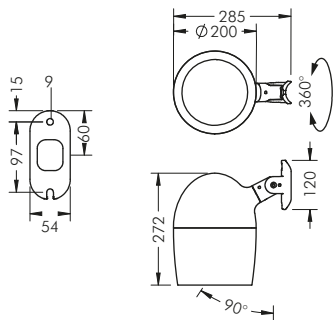
Accessories Metaspot 3 external, for retro-fitting

Description: Cowl , external, stainless steel					
Part number	Colour		Part number	Colour	
122 0 573 940	black	Cowl, Length 55 mm	122 0 633 940	black	Cowl, Length 96 mm
122 0 573 960	white		122 0 633 960	white	
122 0 573 950	silver grey		122 0 633 950	silver grey	

Accessories Metaspot 3 internal, factory fitted (not available for Darkring Optic/Street Optic)

Part number	Description
129 0 730 940	Radial louvre , internal (factory fitted), to reduce lateral glare

Part number	Description
129 0 754 000	Honeycomb louvre , internal (factory fitted), to avoid glare

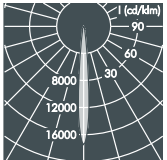
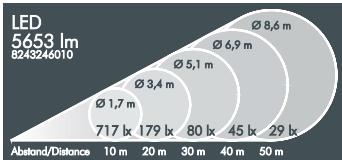


Metaspot 3 pole luminaire

With high performance LED module (Zhaga), integral temperature monitoring device, CRI: > 80, Colour tolerance: 3 SDCM
Service life: L80/B10 > 50 000 h
protection class I or II, IP65 , IK08
windage area A_W 0.055 m²
corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated,
highly efficient aluminium reflector or lens made of optical silicon (Street Optic),
all exterior steel parts are stainless steel, tempered safety glass, silicon gasket,
toolless twist lock for closure,
for installation on poles Ø 60 - 100 mm,
tiltable base made of powder coated aluminium, 2 drilled holes Ø 9 mm, spacing 97 mm,
1 centre hole Ø 40 mm, tilt range 90°, swivel range 360°, M20 cable gland,
integral driver (AC/DC)

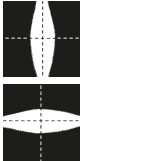
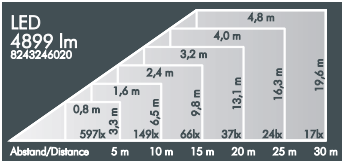
Metaspot 3 pole luminaire, narrow beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 243 246 019	black	5.0 kg	1 x LED module 67 W warm white (3000 K)	5653 lm	9°
8 243 266 019	white				
8 243 256 019	silver grey				



Metaspot 3 pole luminaire, linear beam spread, vertical

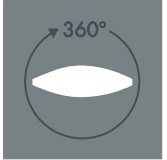
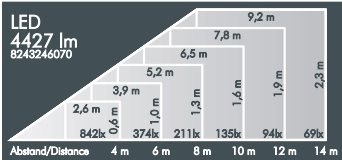
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 243 246 029	black	5.0 kg	1 x LED module 67 W warm white (3000 K)	4899 lm	C 0 – 180
8 243 266 029	white				C 90 – 270
8 243 256 029	silver grey				36°



. 3. Luminaire with linear beam spread, horizontal

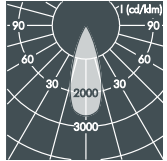
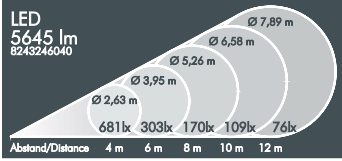
Metaspot 3 pole luminaire, linear beam spread, rotatable

Part number	Colour	Description	Luminous flux	Beam angle γ (FWHM)
8 243 246 079	black	Luminaire with external ribbed glass spreader lens, continuously adjustable through 360° from outside the luminaire	4427 lm	C 0 – 180
8 243 266 079	white			C 90 – 270
8 243 256 079	silver grey			36°



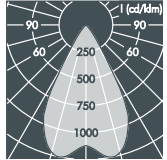
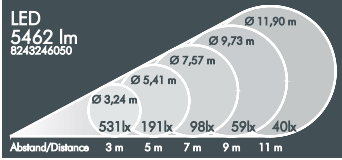
Metaspot 3 pole luminaire, medium wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 243 246 049	black	5.0 kg	1 x LED module 67 W warm white (3000 K)	5645 lm	36°
8 243 266 049	white				
8 243 256 049	silver grey				



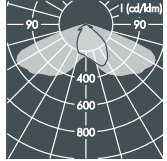
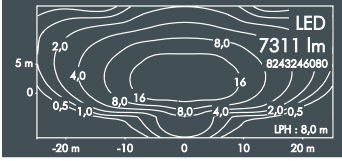
Metaspot 3 pole luminaire, wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 243 246 059	black	5.0 kg	1 x LED module 67 W warm white (3000 K)	5462 lm	57°
8 243 266 059	white				
8 243 256 059	silver grey				



Metaspot 3 pole luminaire, Street Optic

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 243 246 089	black	5.0 kg	1 x LED module 67 W warm white (3000 K)	7311 lm	C 0 – 180
8 243 266 089	white				C 90 – 270
8 243 256 089	silver grey				60°



Part number	Description
. . . 7	Protection class II luminaire
. 7	Luminaire with warm white LED module (2700 K)
. 1	Dimmable luminaire (DALI)
. 2	Dimmable luminaire (DALI D4i)
. 3	Luminaire with Zhaga-18 interface for communication
. 9 0	Luminaire with LED module RGBW * max. 49 W

* Not available for Street Optic/Darking Optic

LED

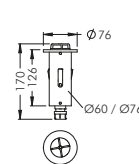
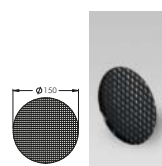
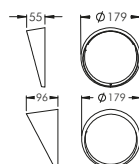
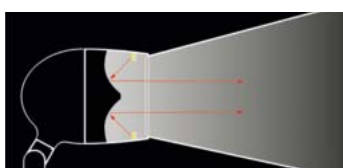
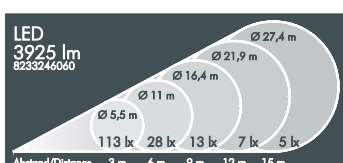
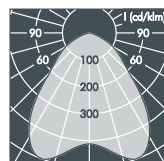
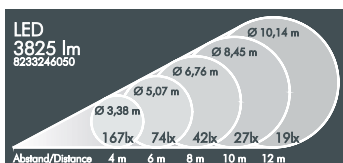
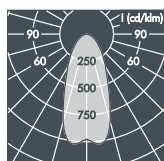
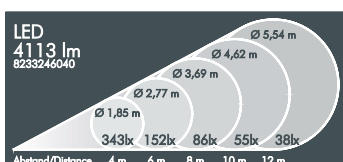
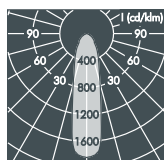
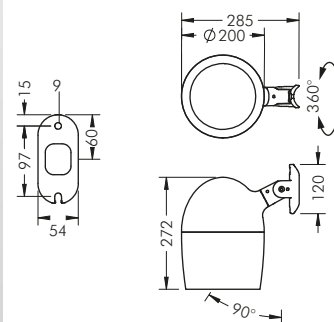
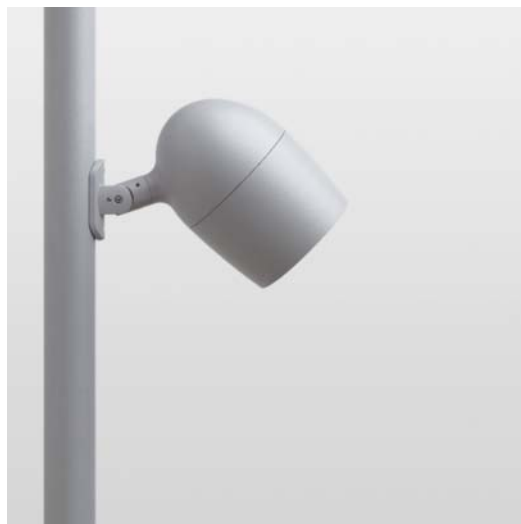
Luminaires available

in 2200 K or other colour temperatures upon request



Metaspot 3 Darkring Optic pole luminaire

With highly efficient LED modules,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: 3 SDCM
Service life: L80/B10 > 50 000 h
protection class I or II, IP65 , IK08
windage area A_W 0.055 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
light source completely shielded,
high gloss aluminum reflector,
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
toolless twist lock for closure,
for installation on poles Ø 60 - 100 mm,
tiltable base made of powder coated aluminium,
2 drilled holes Ø 9 mm, spacing 97 mm,
1 centre hole Ø 40 mm, tilt range 90°,
swivel range 360°, M20 cable gland,
integral driver (AC/DC)



LED

Luminaires available

in 2200 K or other colour temperatures upon request



Metaspot 3 Darkring Optic pole luminaire, medium wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 233 246 049	black	4.4 kg	3 x LED module 19 W (58 W) warm white (3000 K)	4113 lm	26°
8 233 266 049	white				
8 233 256 049	silver grey				

Metaspot 3 Darkring Optic pole luminaire, wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 233 246 059	black	4.4 kg	3 x LED module 19 W (58 W) warm white (3000 K)	3825 lm	46°
8 233 266 059	white				
8 233 256 059	silver grey				

Metaspot 3 Darkring Optic pole luminaire, extra wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 233 246 069	black	4.4 kg	3 x LED module 19 W (58 W) warm white (3000 K)	3925 lm	91°
8 233 266 069	white				
8 233 256 069	silver grey				

Part number	Description
... 7 ...	Protection class II luminaire
... 7 ...	Luminaire with warm white LED module (2700 K)
... 1 ...	Dimmable luminaire (DALI)
... 2 ...	Dimmable luminaire (DALI D4i)
... 3 ...	Luminaire with Zhaga-18 interface for communication

Accessories Metaspot 3 external, for retro-fitting

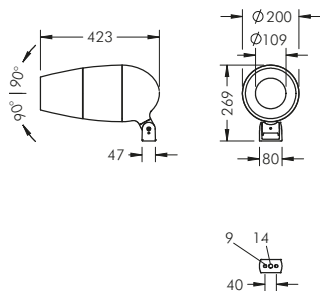
Part number		Description: Cowl, external, stainless steel	
Part number	Colour	Part number	Colour
122 0 573 940	black	122 0 633 940	black
122 0 573 960	white	122 0 633 960	white
122 0 573 950	silver grey	122 0 633 950	silver grey

Accessories Metaspot 3 internal, factory fitted (not available for Darkring Optic/Street Optic)

Part number	Description
129 0 730 940	Radial louvre , internal (factory fitted), to reduce lateral glare
129 0 754 000	Honeycomb louvre , internal (factory fitted), to avoid glare

Accessories Metaspot 3 pole luminaire

Part number	Part number	Colour	Description
120 0 699 940	120 0 700 940	black	Post-top fitter for insertion, with Zhaga-18 interface, with 8 m cable, for control and monitoring of max. 4 luminaires with D4i LED driver
120 0 699 960	120 0 700 960	white	
120 0 699 950	120 0 700 950	silver grey	



Metaspot Gobo

With high performance LED module,
integral temperature monitoring device,
CRI: > 70, Colour tolerance: max. 3 SDCM
Service life: L80/B10 > 50 000 h
protection class I, IP65 , IK08
windage area AW 0.077 m²,
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated, focusable lens,
carrier for gobos and colour filters, active ventilation,
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
toolless twist lock for closure,
mounting bracket: 2 drilled holes Ø 9 mm,
spacing 40 mm, 1 centre hole Ø 14 mm,
tilt range 180°, M20 cable gland,
integral driver (AC/DC)

Metaspot Gobo, 45 mm focal length

Part number	Colour	Weight	Light source	Luminous flux	Beam angle
8 244 044 069	black	6.5 kg	1 x LED module 49 W cool white (6500 K)	1535 lm	41°
8 244 064 069	white				
8 244 054 069	silver grey				

Part number	Colour	Weight	Light source	Luminous flux	Beam angle
8 244 046 069	black	6.5 kg	1 x LED module 49 W warm white (3000 K)	1401 lm	41°
8 244 066 069	white				
8 244 056 069	silver grey				

Metaspot Gobo, 63 mm focal length

Part number	Colour	Weight	Light source	Luminous flux	Beam angle
8 244 044 059	black	6.5 kg	1 x LED module 49 W cool white (6500 K)	1127 lm	29°
8 244 064 059	white				
8 244 054 059	silver grey				

Part number	Colour	Weight	Light source	Luminous flux	Beam angle
8 244 046 059	black	6.5 kg	1 x LED module 49 W warm white (3000 K)	1029 lm	29°
8 244 066 059	white				
8 244 056 059	silver grey				

Metaspot Gobo, 85 mm focal length

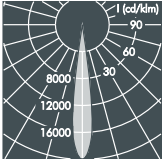
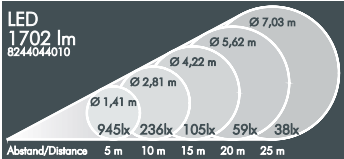
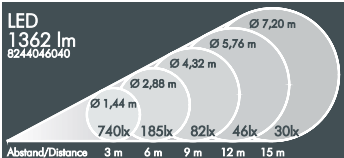
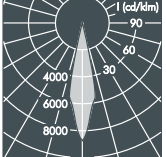
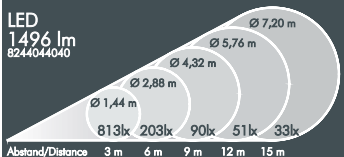
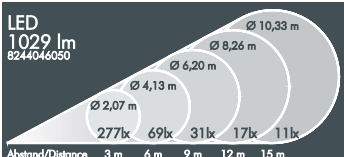
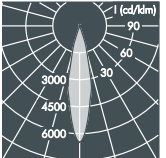
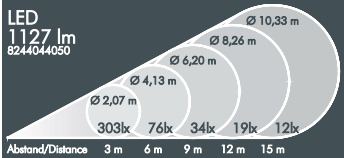
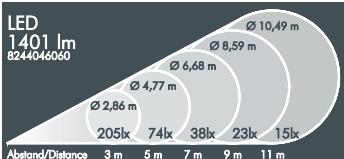
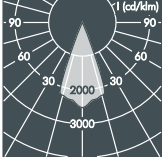
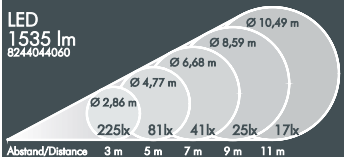
Part number	Colour	Weight	Light source	Luminous flux	Beam angle
8 244 044 049	black	6.5 kg	1x LED module 49 W cool white (6500 K)	1496 lm	22°
8 244 064 049	white				
8 244 054 049	silver grey				

Part number	Colour	Weight	Light source	Luminous flux	Beam angle
8 244 046 049	black	6.5 kg	1x LED module 49 W warm white (3000 K)	1362 lm	22°
8 244 066 049	white				
8 244 056 049	silver grey				

Metaspot Gobo, 150 mm focal length

Part number	Colour	Weight	Light source	Luminous flux	Beam angle
8 244 044 019	black	6.5 kg	1x LED module 49 W cool white (6500 K)	1702 lm	14°
8 244 064 019	white				
8 244 054 019	silver grey				

Part number	Description
. 6 . . .	Luminaire with warm white LED module (3000 K)
. 1 . .	Dimmable version (DALI)
. 3 . .	Luminaire with Zhaga-18 interface for communication

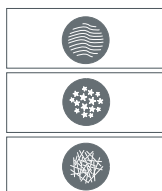
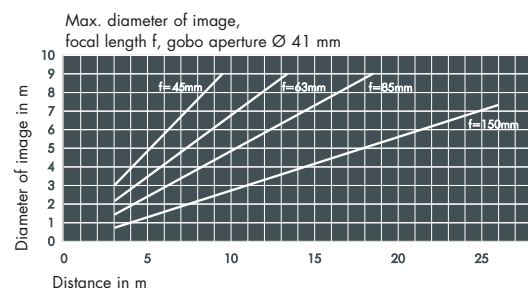
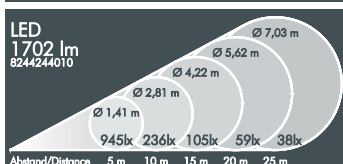
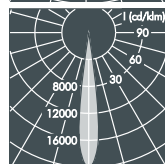
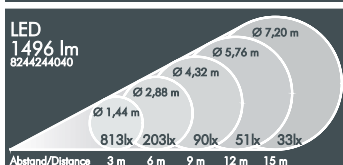
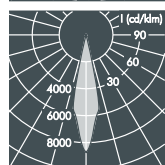
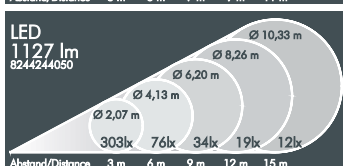
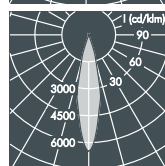
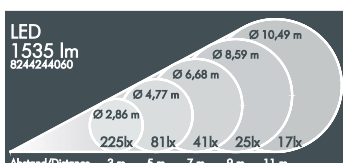
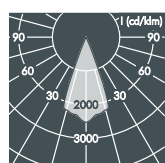
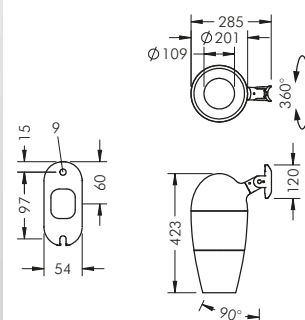


LED



Metaspot Gobo pole luminaire

With high performance LED module,
integral temperature monitoring device,
CRI: > 70, Colour tolerance: max. 3 SDCM
Service life: L80/B10 > 50 000 h
protection class I, IP65 , IK08
windage area AW 0.077 mm²,
corrosion-resistant die cast aluminium housing AISi12,
polyester powder coated, focusable lens,
carrier for gobos and colour filters, active ventilation,
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
toolless twist lock for closure,
for installation on poles Ø 60 - 100 mm,
tiltable base made of powder coated aluminium,
2 drilled holes Ø 9 mm, spacing 97 mm,
1 centre hole Ø 40 mm, tilt range 90°,
swivel range 360°, M20 cable gland,
integral driver (AC/DC)



Metaspot Gobo pole luminaire, 45 mm focal length

Part number	Colour	Weight	Light source	Luminous flux	Beam angle
8 244 244 069	black	6.5 kg	1 x LED module 49 W	1535 lm	41°
8 244 264 069	white		cool white (6500 K)		
8 244 254 069	silver grey				

Metaspot Gobo pole luminaire, 63 mm focal length

Part number	Colour	Weight	Light source	Luminous flux	Beam angle
8 244 244 059	black	6.5 kg	1 x LED module 49 W	1127 lm	29°
8 244 264 059	white		cool white (6500 K)		
8 244 254 059	silver grey				

Metaspot Gobo pole luminaire, 85 mm focal length

Part number	Colour	Weight	Light source	Luminous flux	Beam angle
8 244 244 049	black	6.5 kg	1 x LED module 49 W	1496 lm	22°
8 244 264 049	white		cool white (6500 K)		
8 244 254 049	silver grey				

Metaspot Gobo pole luminaire, 150 mm focal length

Part number	Colour	Weight	Light source	Luminous flux	Beam angle
8 244 244 019	black	6.5 kg	1 x LED module 49 W	1702 lm	14°
8 244 264 019	white		cool white (6500 K)		
8 244 254 019	silver grey				

Part number	Description
... 6 ...	Luminaire with warm white LED module (3000 K)
... 1 ..	Dimmable version (DALI)
... 2 ..	Dimmable version (DALI D4i)
... 3 ..	Luminaire with Zhaga-18 interface for communication

Accessoires Metaspot Gobo *

Part number	Description
129 0 780 000	Framer, for sharp edges on 3- or 4-sided images
	Pattern
129 0 489 000	waves
129 0 490 000	stars
129 0 491 000	hash
	Standard gobos Ø 50 mm (outer diameter)

Custom made gobos can be produced from image data in one of the following file formats:

EPS (min. 300 dpi), **TIF** (min. 300 dpi), **JPG** (in low compression). Max. image size D on gobo: D = 38 mm

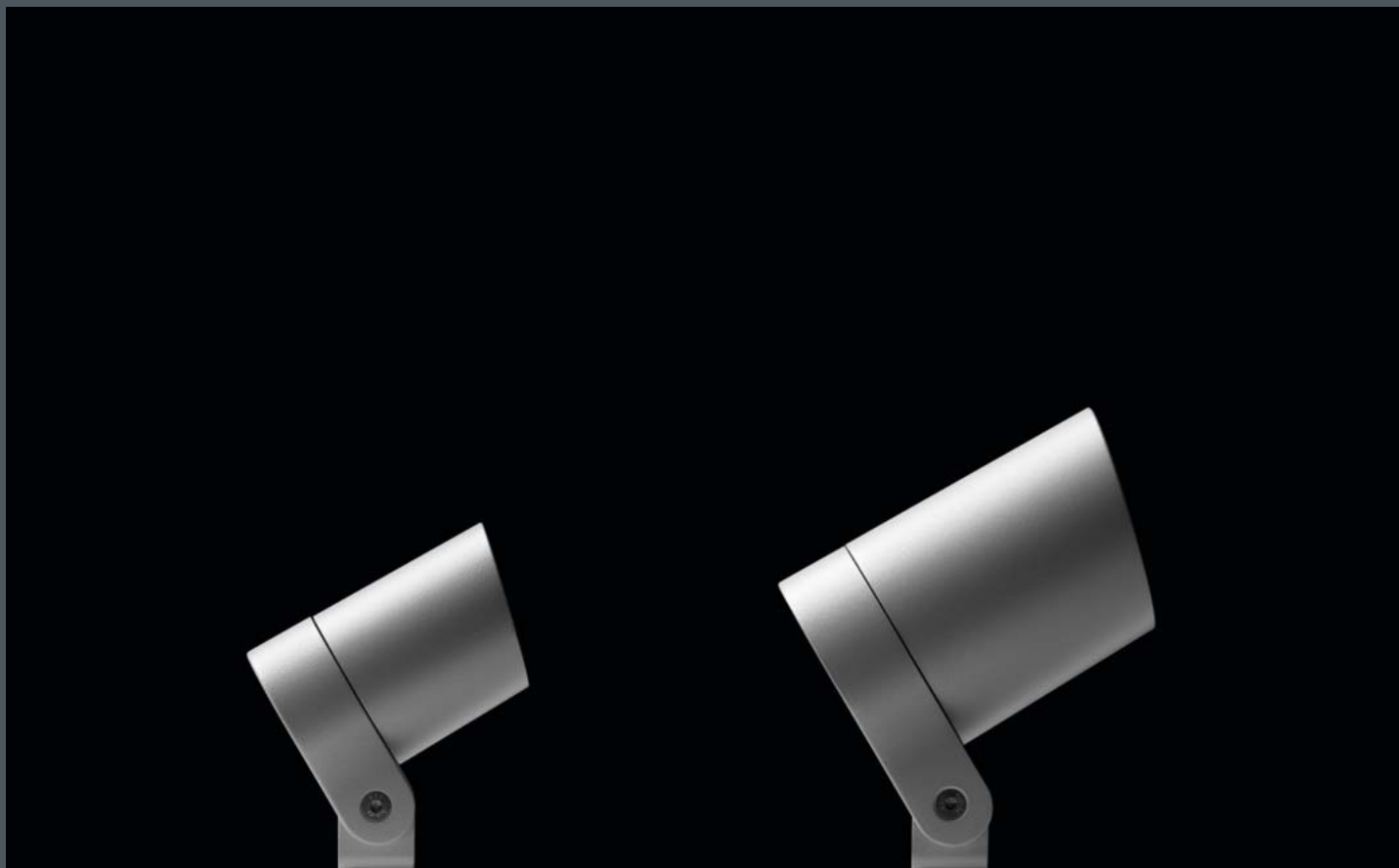
* **Dichroic colour filter** (yellow, red, blue, green) are available upon request.

LED



Metaspot

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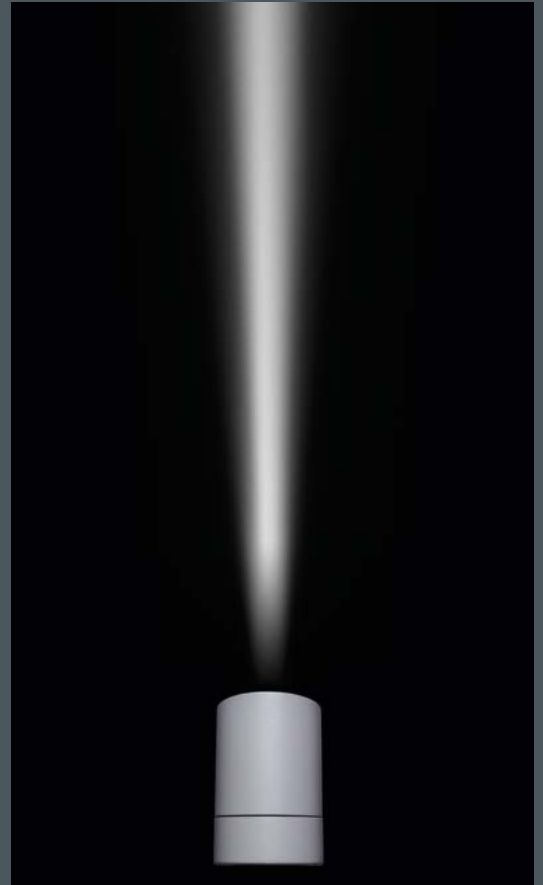


Minispot are cylindrical floodlights with very compact dimensions. With their minimalist design these luminaires are ideal for discrete installation on façades and for use in landscape lighting. Dimmable versions for 48 Volt power supply are available as well as luminaires that can be connected to 230 Volt directly. In addition, there are CASAMBI® ready versions with monochrome or RGBW LEDs that can be controlled by an app. With their wide choice of optics and wattages Minispot floodlights are versatile tools for accent lighting in exterior spaces.



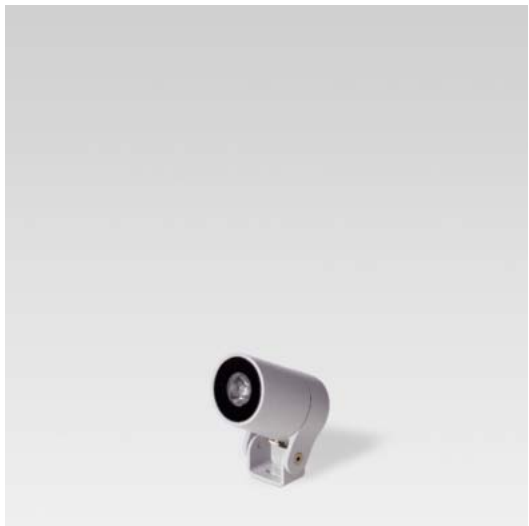
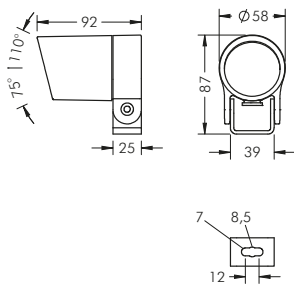
Minispot floodlights are available as versions with RGBW LEDs. Light colours can be set easily via the CASAMBI®-App without using any complicated DMX control system.

Narrow beam light distributions with reduced stray light are used for accent lighting on façades and for objects.



The slanted front of the luminaire serves as a glare shield. For improved maintenance rain and dirt can flow unimpeded over the flush lens.



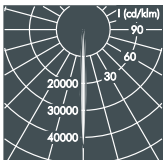
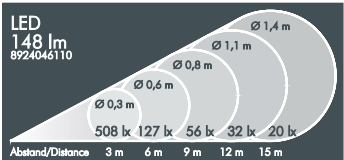


Minispot 1

With high performance LED module,
CRI: > 80, Colour tolerance: max. 2 SDCM
Service life: L90/B10 > 50 000 h
protection class III ⚡, IP65 ⚡⚡⚡, IK08
windage area AWW 0.006 m²,
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
with precise PMMA optic,
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
2 stainless steel screws,
mounting bracket: 1 elongated hole Ø 7 mm,
spacing 12 mm, 1 centre hole Ø 8,5 mm,
tilt range 185°, M16 cable gland,
48 V DC: integral constant current control

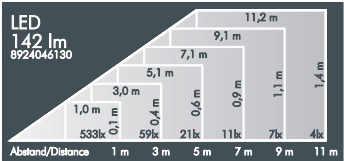
Minispot 1, narrow beam (48 V DC, dimmable DALI)

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 924 046 119	black	0.4 kg	1 x LED 2 W warm white (3000 K)	148 lm	5°
8 924 066 119	white				
8 924 056 119	silver grey				



Minispot 1, linear beam spread, horizontal (48 V DC, dimmable DALI)

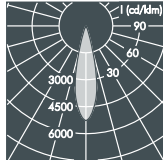
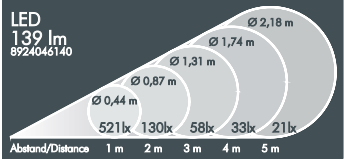
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 924 046 139	black	0.4 kg	1 x LED 2 W warm white (3000 K)	142 lm	C 0 – 180	C 90 – 270
8 924 066 139	white				7°	52°
8 924 056 139	silver grey					



. 2. Luminaire with linear beam spread, vertical (48 V DC, dimmable DALI)

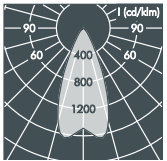
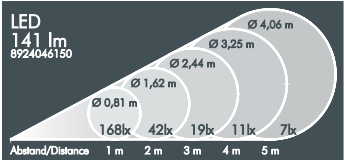
Minispot 1, medium wide beam (48 V DC, dimmable DALI)

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 924 046 149	black	0.4 kg	1 x LED 2 W warm white (3000 K)	139 lm	25°
8 924 066 149	white				
8 924 056 149	silver grey				



Minispot 1, wide beam (48 V DC, dimmable DALI)

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 924 046 159	black	0.4 kg	1 x LED 2 W warm white (3000 K)	141 lm	44°
8 924 066 159	white				
8 924 056 159	silver grey				

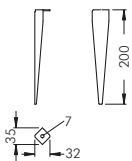
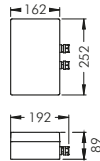


Part number	Description
. 0..	Luminaire 48 V DC, on/off
. 7 ..	Luminaire with warm white LED module (2700 K)
. 5 ..	Luminaire with neutral white LED module (4000 K)

Accessories Minispot 1

Part number	Description
119 0 071 000	Power supply, 48 V, max. 70 W*, weather-resistant polycarbonate, grey, IP67
119 0 072 000	Power supply, 48 V, max. 150 W*, weather-resistant polycarbonate, grey, IP67
*additional wattages upon request	

Part number	Description
129 0 901 000	honeycomb louvre, internal (factory fitted), to avoid glare
	Colour
123 0 470 940	black
123 0 470 960	white
123 0 470 950	silver grey
Stainless steel earth spike, for use in landscape lighting	



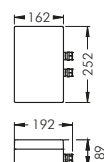
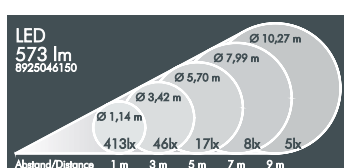
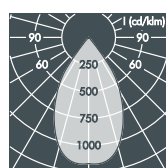
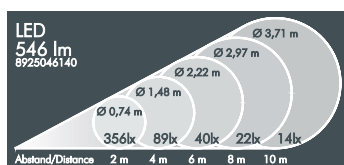
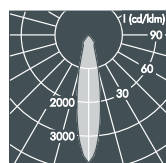
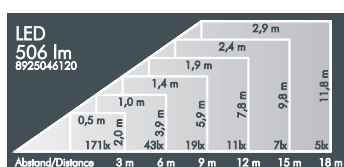
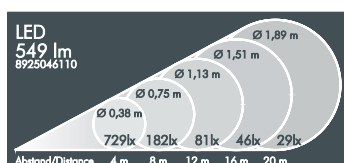
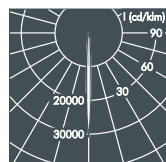
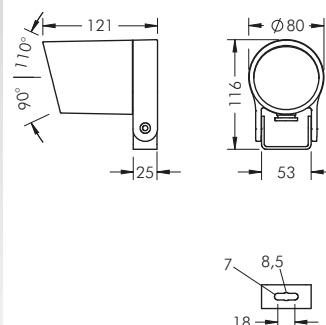
LED

Luminaires available in 2700 K or other colour temperatures upon request

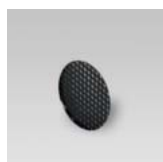


Minispot 2

With high performance LED module,
 CRI: > 80, Colour tolerance: max. 2 SDCM
 Service life: L90/B10 > 50 000 h
 protection class I or III , IP65 , IK08
 windage area A_W 0.01 m²,
 corrosion-resistant die cast aluminium housing AlSi12,
 polyester powder coated,
 with reflector or precise PMMA optic,
 all exterior steel parts are stainless steel,
 tempered safety glass, silicon gasket,
 2 stainless steel screws,
 mounting bracket: 1 elongated hole Ø 7 mm,
 spacing 18 mm, 1 centre hole Ø 8,5 mm,
 tilt range 200°, M20 cable gland,
 48 V DC: integral constant current control,
 230 V AC: integral driver



LED



Luminaires available
 in 2700 K or other colour temperatures upon request



Minispot 2, narrow beam (48 V DC, dimmable DALI)

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 925 046 119	black	0.8 kg	1 x LED module 8 W warm white (3000 K)	549 lm	6°
8 925 066 119	white				
8 925 056 119	silver grey				

Minispot 2, linear beam spread, vertical (48 V DC, dimmable DALI)

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 925 046 129	black	0.8 kg	1 x LED module 8 W warm white (3000 K)	506 lm	C 0 – 180
8 925 066 129	white				34°
8 925 056 129	silver grey				7°

... .3. Luminaire with linear beam spread, horizontal (48 V DC, dimmable DALI)

Minispot 2, medium wide beam (48 V DC, dimmable DALI)

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 925 046 149	black	0.8 kg	1 x LED module 8 W warm white (3000 K)	546 lm	23°
8 925 066 149	white				
8 925 056 149	silver grey				

Minispot 2, wide beam (48 V DC, dimmable DALI)

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 925 046 159	black	0.8 kg	1 x LED module 8 W warm white (3000 K)	573 lm	59°
8 925 066 159	white				
8 925 056 159	silver grey				

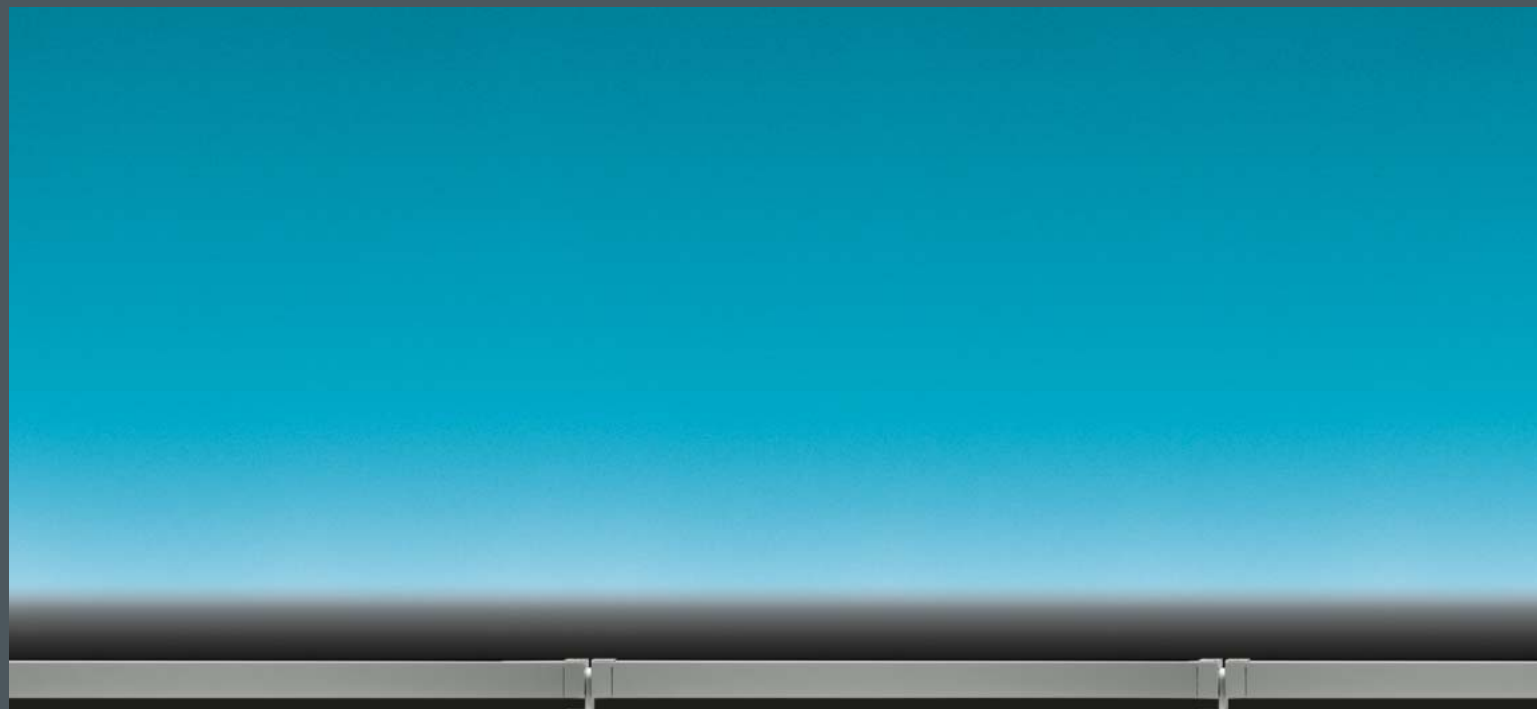
Part number	Description
... .0..	Luminaire 48 V DC on/off
... .3..	Luminaire dimmable (48 V), CASAMBI®
... .7 ..	Luminaire with warm white LED module (2700 K)
... .5 ..	Luminaire with neutral white LED module (4000 K)
... .9 3..	Luminaire with LED module RGBW max. 8 W, CASAMBI®

Part number	Description
8 926 ..6 0..	Luminaire 230 V AC, on/off (integral driver) 1 x LED module 10 W with warm white colour temperature (3000 K)
8 926 ..7 0..	Luminaire 230 V AC, on/off (integral driver) 1 x LED module 10 W with warm white colour temperature (2700 K)
8 926 ..5 0..	Luminaire 230 V AC, on/off (integral driver) 1 x LED module 10 W with neutral white colour temperature (4000 K)

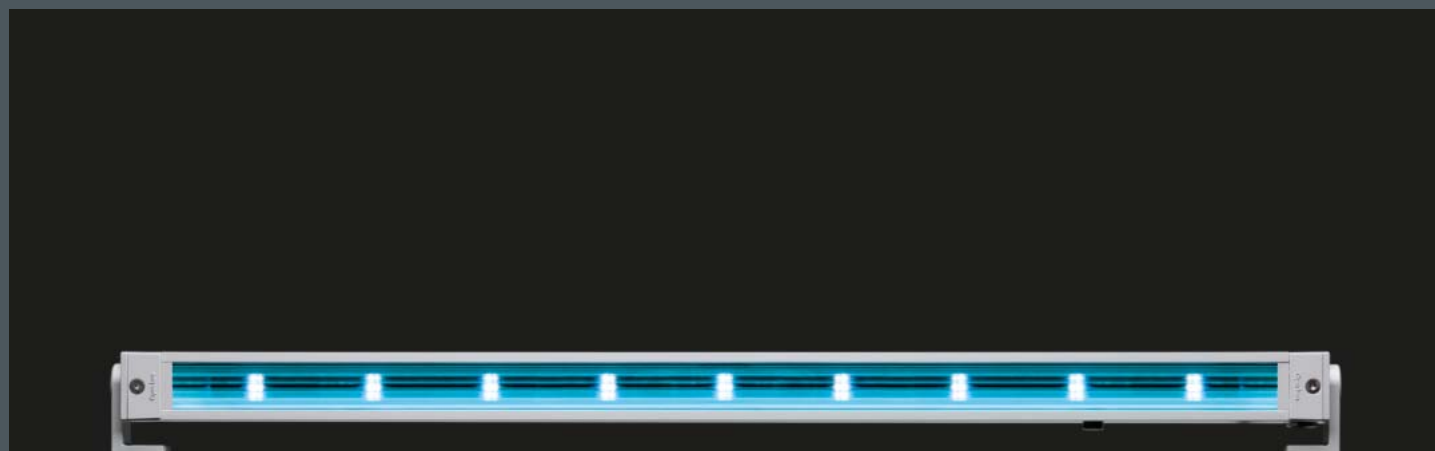
Accessories Minispot 2

Part number	Description
119 0 071 000	Power supply, 48 V, max. 70 W* , weather-resistant polycarbonate, grey, IP67
119 0 072 000	Power supply, 48 V, max. 150 W* , weather-resistant polycarbonate, grey, IP67
129 0 902 000	Honeycomb louvre , internal (factory fitted), to avoid glare
Colour	Description
123 0 470 940	black
123 0 470 960	white
123 0 470 950	silver grey

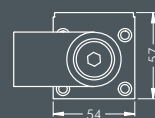
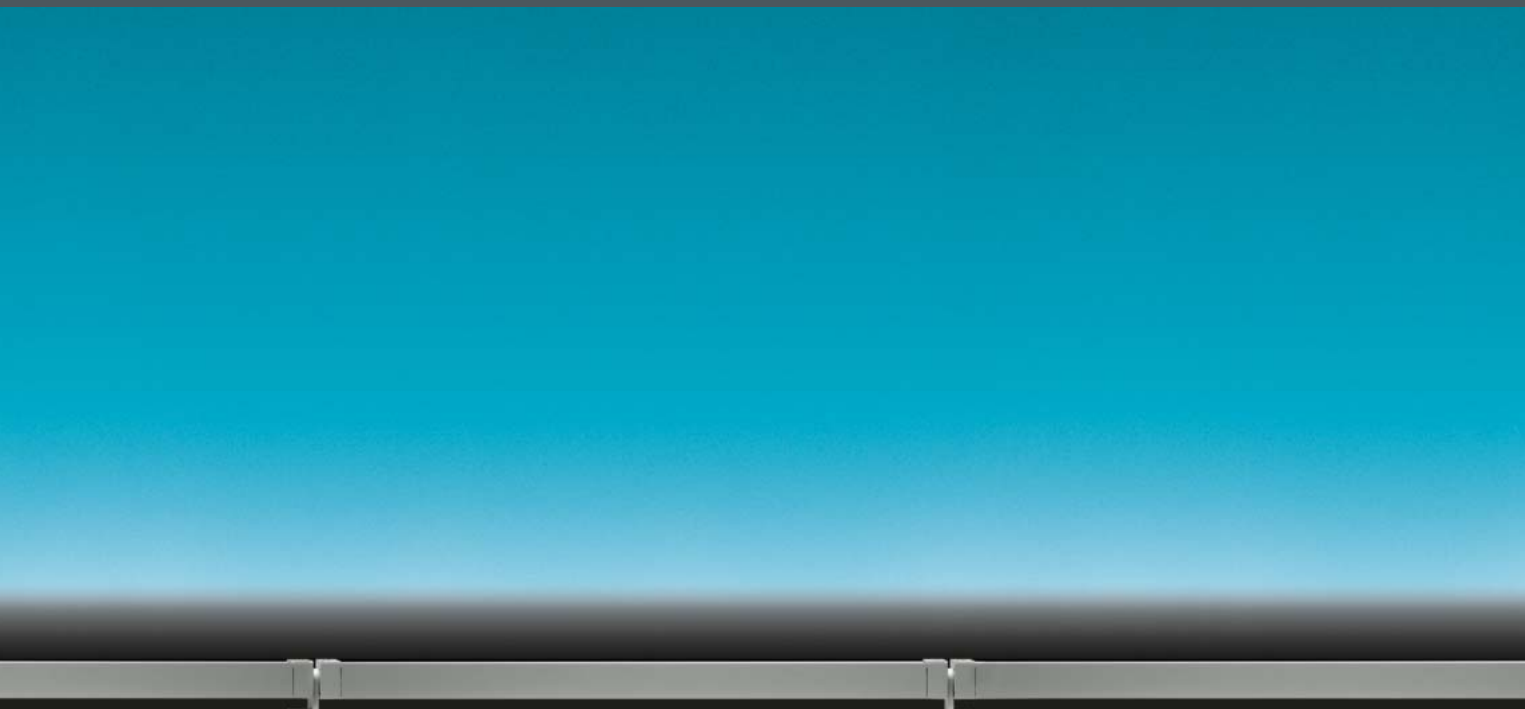
*additional wattages upon request



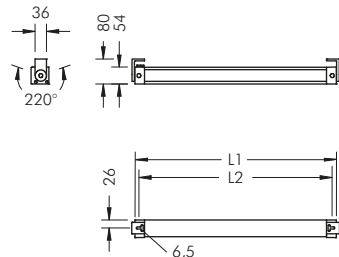
For the Ecoline series versions with RGBW LEDs are available to create dynamic colour change. The wall washer optics achieve excellent colour mixing throughout the entire light distribution. In addition to stand alone luminaires, Ecoline RGBW is available as a modular system with hardly any shadows between the luminaires. DMX LED drivers are integrated in the very slim luminaire housings. They can be connected directly to 230 V mains voltage power supply.



The slim luminaire housing of Ecoline RGBW comes with an integral DMX LED driver.



The luminaires create uniform light distributions with high colour saturation and warm white colour temperature.

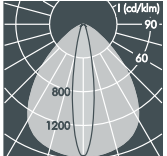
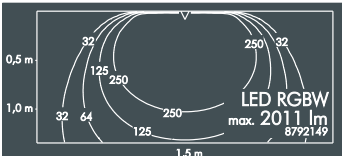


Ecoline RGBW wall washer

With high performance LEDs,
integral temperature monitoring device,
for DMX signal,
protection class I, IP67 , IK10
housing made of extruded aluminium and
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
linear PMMA optic,
all exterior steel parts are stainless steel,
polycarbonate cover, silicon gasket,
closure by 2 stainless steel screws,
mounting flanges: 2 drilled holes $\varnothing$ 6.5 mm,
spacing L2, tilt range 220°, M20 cable gland,
DMX-RDM integral driver (AC/DC)

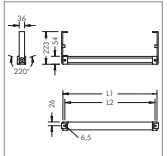
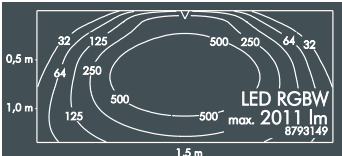
Ecoline, wall washer, L1 = 962 mm, L2 = 915 mm

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 792 149 009	black	3.7 kg	9 x LED RGBW	max.	C 0 – 180	C 90 – 270
8 792 169 009	white		W = 3000 K	2011 lm	17°	87°
8 792 159 009	silver grey		(max. 36 W)			



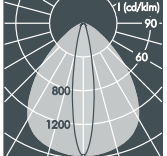
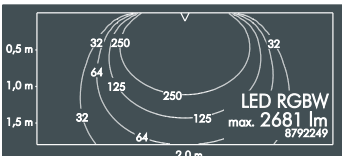
Ecoline, wall washer with wall arms, L1 = 962 mm, L2 = 915 mm

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 793 149 009	black	3.9 kg	9 x LED RGBW	max.	C 0 – 180	C 90 – 270
8 793 169 009	white		W = 3000 K	2011 lm	17°	87°
8 793 159 009	silver grey		(max. 36 W)			



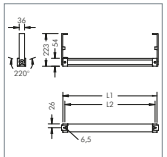
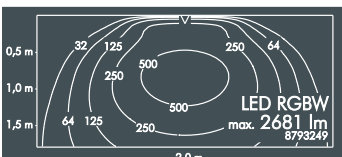
Ecoline, wall washer, L1 = 1262 mm, L2 = 1215 mm

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 792 249 009	black	4.4 kg	12 x LED RGBW	max.	C 0 – 180	C 90 – 270
8 792 269 009	white		W = 3000 K	2681 lm	17°	87°
8 792 259 009	silver grey		(max. 48 W)			



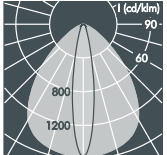
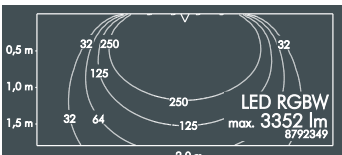
Ecoline, wall washer with wall arms, L1 = 1262 mm, L2 = 1215 mm

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 793 249 009	black	4.6 kg	12 x LED RGBW	max.	C 0 – 180	C 90 – 270
8 793 269 009	white		W = 3000 K	2681 lm	17°	87°
8 793 259 009	silver grey		(max. 48 W)			



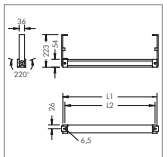
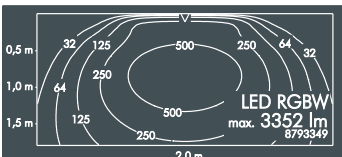
Ecoline, wall washer, L1 = 1562 mm, L2 = 1515 mm

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 792 349 009	black	5.2 kg	15 x LED RGBW	max.	C 0 – 180	C 90 – 270
8 792 369 009	white		W = 3000 K	3352 lm	17°	87°
8 792 359 009	silver grey		(max. 60 W)			



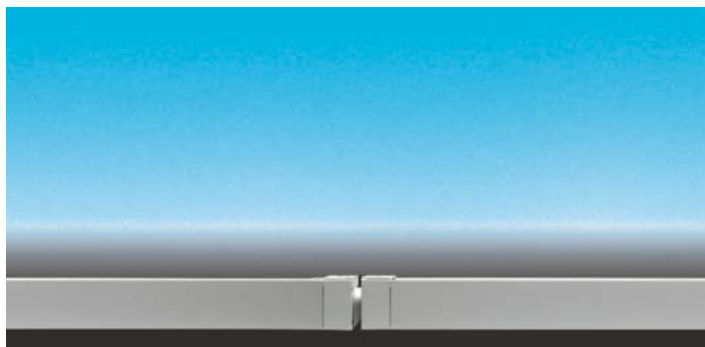
Ecoline, wall washer with wall arms, L1 = 1562 mm, L2 = 1515 mm

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 793 349 009	black	5.4 kg	15 x LED RGBW	max.	C 0 – 180	C 90 – 270
8 793 369 009	white		W = 3000 K	3352 lm	17°	87°
8 793 359 009	silver grey		(max. 60 W)			



LED

Luminaires available in 2700 K and other colour temperatures upon request



Regardless of the number of luminaires to be connected, just 1 wall flange set **or** 1 wall arm set is required to mount the outer left and right hand luminaires, SL and SR, to the surface.

Mounting components for outer luminaires

Part number	Colour	Description
127 0 299 940	black	Wall flange set, (pair) for outer luminaires
127 0 299 960	white	
127 0 299 950	silver grey	

Mounting components for outer luminaires

Part number	Colour	Description
127 0 300 940	black	Wall arm set, (pair) for outer luminaires, length 196 mm
127 0 300 960	white	
127 0 300 950	silver grey	

To connect two luminaires together, either one connection flange **or** one connection arm is required. The number of these connection parts required equals the total number of luminaires minus 1.

Mounting components

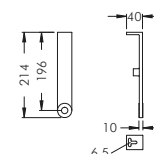
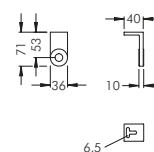
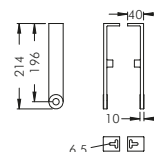
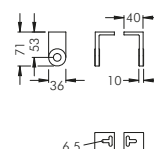
Part number	Colour	Description
127 0 470 940	black	Connection flange, with DMX-cable for through wiring, for connection of 2 luminaires
127 0 470 960	white	
127 0 470 950	silver grey	

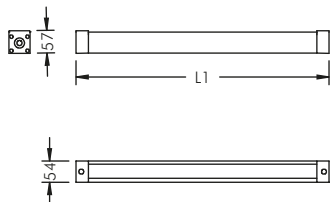
Mounting components

Part number	Colour	Description
127 0 471 940	black	Connection arm with DMX-cable for through wiring, for connection of 2 luminaires, length 196 mm
127 0 471 960	white	
127 0 471 950	silver grey	

Ecoline RGBW S Modular System

The luminaire modules are joined together in continuous runs. The luminaire system is installed using either wall flanges or wall arms. The wall arms increase the distance between the luminaire and the surface to be illuminated, thus increasing the uniformity of light distribution.



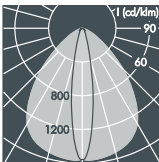


Ecoline RGBW S
Modular System

With high performance LEDs,
integral temperature monitoring device,
wall washer light distribution,
protection class I, IP65 , IK10
housing made of extruded aluminium and
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
linear PMMA optic,
all exterior steel parts are stainless steel,
polycarbonate cover, silicon gasket,
closure by 2 stainless steel screws,
with stainless steel couplings,
tilt range 220°, M20 cable gland,
DMX-RDM integral driver (AC/DC)

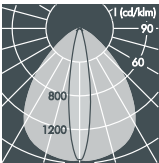
Ecoline RGBW SL, left, wall washer, L1 = 942 mm

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 797 149 009	black	3.5 kg	9 x LED RGBW	max.	C 0 – 180	C 90 – 270
8 797 169 009	white		W = 3000 K	2011 lm	17°	87°
8 797 159 009	silver grey		(max. 36 W)			



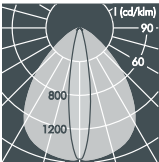
Ecoline RGBW SL, left, wall washer, L1 = 1242 mm

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 797 249 009	black	4.2 kg	12 x LED RGBW	max.	C 0 – 180	C 90 – 270
8 797 269 009	white		W = 3000 K	2681 lm	17°	87°
8 797 259 009	silver grey		(max. 48 W)			



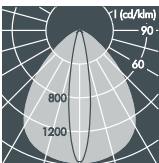
Ecoline RGBW SL, left, wall washer, L1 = 1542 mm

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 797 349 009	black	5.0 kg	15 x LED RGBW	max.	C 0 – 180	C 90 – 270
8 797 369 009	white		W = 3000 K	3352 lm	17°	87°
8 797 359 009	silver grey		(max. 60 W)			



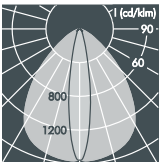
Ecoline RGBW SM, middle, wall washer, L1 = 942 mm

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 798 149 009	black	3.5 kg	9 x LED RGBW	max.	C 0 – 180	C 90 – 270
8 798 169 009	white		W = 3000 K	2011 lm	17°	87°
8 798 159 009	silver grey		(max. 36 W)			



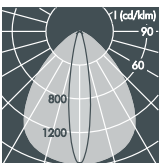
Ecoline RGBW SM, middle, wall washer, L1 = 1242 mm

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 798 249 009	black	4.2 kg	12 x LED RGBW	max.	C 0 – 180	C 90 – 270
8 798 269 009	white		W = 3000 K	2681 lm	17°	87°
8 798 259 009	silver grey		(max. 48 W)			



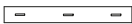
Ecoline RGBW SM, middle, wall washer, L1 = 1542 mm

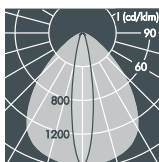
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 798 349 009	black	5.0 kg	15 x LED RGBW	max.	C 0 – 180	C 90 – 270
8 798 369 009	white		W = 3000 K	3352 lm	17°	87°
8 798 359 009	silver grey		(max. 60 W)			



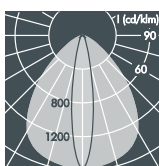
LED

Luminaires available in 2700 K and other colour temperatures upon request

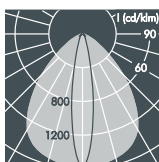




Ecoline RGBW SR, right, wall washer, L1 = 942 mm						
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 799 149 009	black	3.5 kg	9 x LED RGBW W = 3000 K (max. 36 W)	max. 2011 lm	C 0 – 180	C 90 – 270
8 799 169 009	white				17°	87°
8 799 159 009	silver grey					



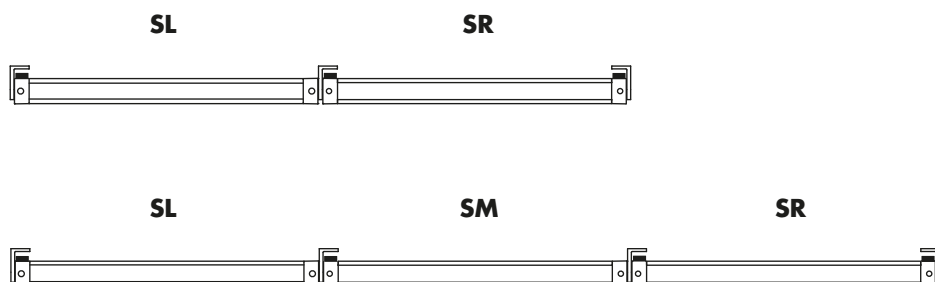
Ecoline RGBW SR, right, wall washer, L1 = 1242 mm						
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 799 249 009	black	4.2 kg	12 x LED RGBW W = 3000 K (max. 48 W)	max. 2681 lm	C 0 – 180	C 90 – 270
8 799 269 009	white				17°	87°
8 799 259 009	silver grey					



Ecoline RGBW SR, right, wall washer, L1 = 1542 mm						
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 799 349 009	black	5.0 kg	15 x LED RGBW W = 3000 K (max. 60 W)	max. 3352 lm	C 0 – 180	C 90 – 270
8 799 369 009	white				17°	87°
8 799 359 009	silver grey					

The Modular System

Luminaires of different lengths and wattages can be connected together. One left (SL) and one right hand (SR) luminaire are always required. In addition to these, middle luminaires (SM) can be added to the system.



■ **Cable gland** (on rear side)



Ecoline SL Modular System, left

One cable entry on the left



Ecoline SM Modular System, middle

One cable entry on the left

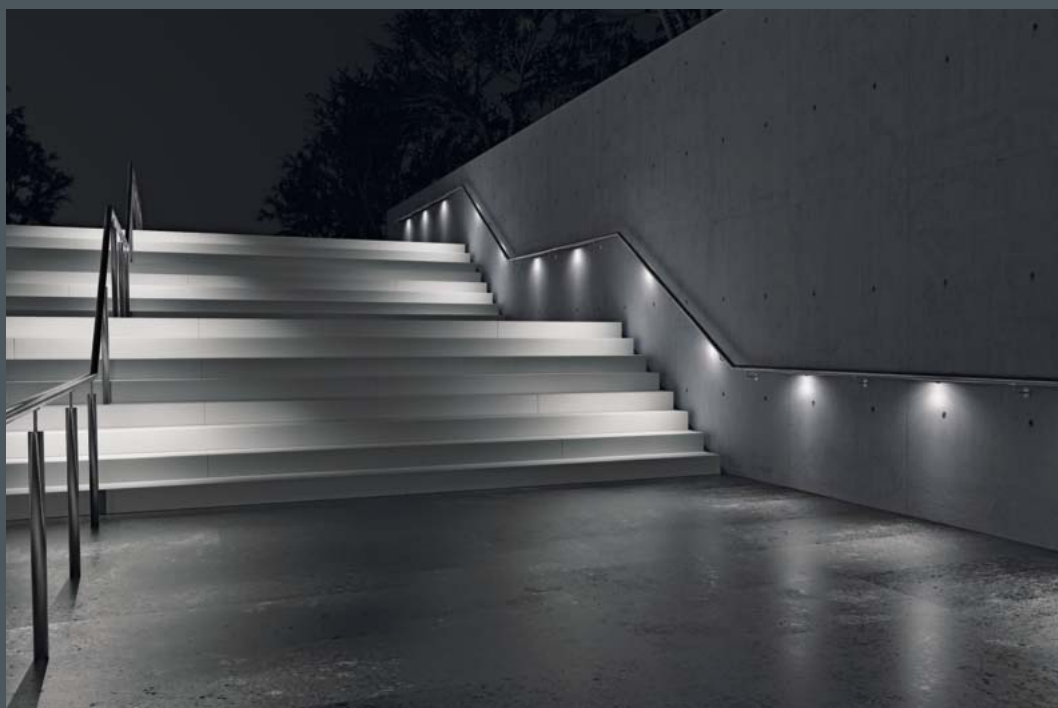


Ecoline SR Modular System, right

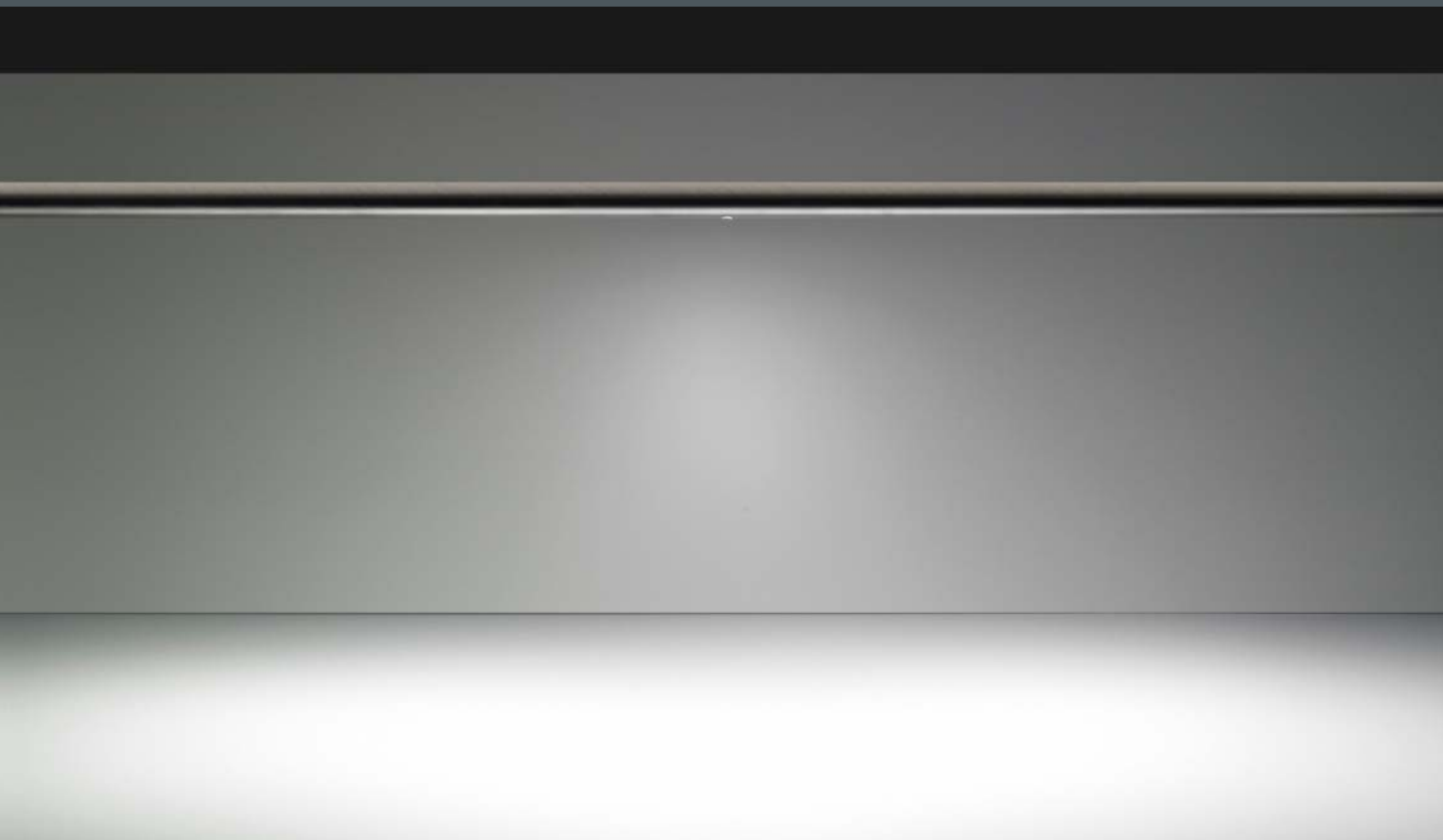
Two cable entries right and left



Nanodot are miniature luminaires for recess installation into handrails made of metal. Discreet and completely glare-free, these luminaires achieve uniform illumination on paths and stairs next to railings. Precise optics create asymmetrical or wide beam light distributions and make large luminaire spacings possible. The luminaires can be retro-fitted into existing handrails on site.

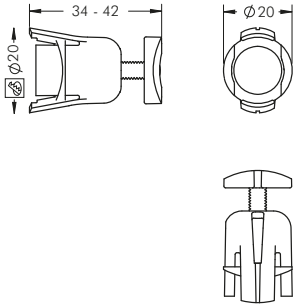


Nanodot luminaires that are built into handrails, provide uniform and secure illumination on paths and stairs.



The extremely small luminaires are recessed into handrails and built-in flush with the surface. For protection against theft, the use of a special tool is necessary to take out the luminaires.



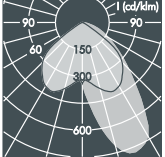
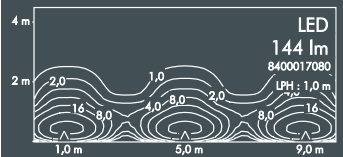


**Nanodot
handrail luminaire**

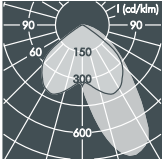
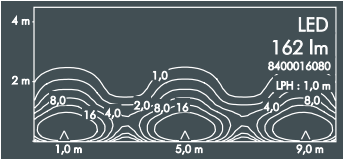
With 1 x high performance LED,
CRI: > 80, Colour tolerance: max. 2 SDCM
Service life: L90/B10 > 50 000 h
protection class III ⚡, IP67 ⚡⚡⚡⚡⚡⚡, IK10
luminaire made of corrosion-resistant stainless steel (V4A),
for flush mounting into handrails,
suitable for outer diameter 38 - 45 mm,
precise light control with miniature polycarbonate optic,
installation housing made of fibreglass reinforced plastic,
2 x 130 mm FEP single wires and
2 x IP67 silicone-potted pressure clamp connectors,
suitable for connection to remote constant current
power supply max. 500 mA
(350 mA for Ta max. 50° C)

Nanodot, lateral wide beam

Part number	Handrail Ø *	Light source	Luminous flux	Beam angle γ (FWHM)	
8 400 017 089	38 - 45 mm	1 x LED 1.5 W warm white (2700 K)	144 lm	C 0 – 180 30°	C 90 – 270 105°

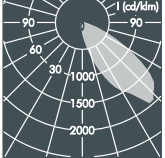
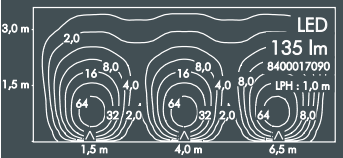


Part number	Handrail Ø *	Light source	Luminous flux	Beam angle γ (FWHM)	
8 400 016 089	38 - 45 mm	1 x LED 1.5 W warm white (3000 K)	162 lm	C 0 – 180 30°	C 90 – 270 105°

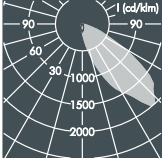
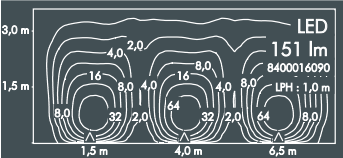


Nanodot, asymmetrical beam

Part number	Handrail Ø *	Light source	Luminous flux	Main beam angle γ
8 400 017 099	38 - 45 mm	1 x LED 1.5 W warm white (2700 K)	135 lm	43°

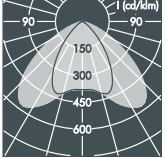
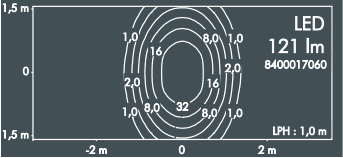


Part number	Handrail Ø *	Light source	Luminous flux	Main beam angle γ
8 400 016 099	38 - 45 mm	1 x LED 1.5 W warm white (3000 K)	151 lm	43°

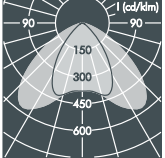
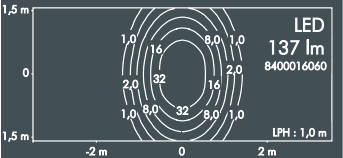


Nanodot, asymmetrical beam in 2 directions

Part number	Handrail Ø *	Light source	Luminous flux	Beam angle γ (FWHM)	
8 400 017 069	38 - 45 mm	1 x LED 1.5 W warm white (2700 K)	121 lm	C 0 – 180 111°	C 90 – 270 75°



Part number	Handrail Ø *	Light source	Luminous flux	Beam angle γ (FWHM)	
8 400 016 069	38 - 45 mm	1 x LED 1.5 W warm white (3000 K)	137 lm	C 0 – 180 111°	C 90 – 270 75°



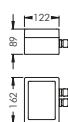
Part number	Description
. 5 . . .	Luminaire with neutral white LED module (4000 K)
. . . 1	Luminaire for rectangular handrails
. . . . 1	 luminaires for emergency escape routes (certified according to IEC 60598-2-22)

* The luminaires are available for round or for rectangular handrails with different outer dimensions upon request (inner dimensions min. 32 mm).



LED Luminaires available in 2200 K or other colour temperatures upon request





Accessories Nanodot

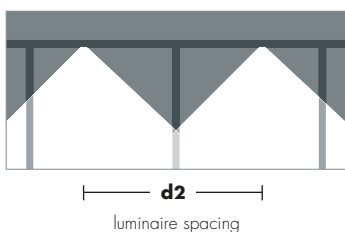
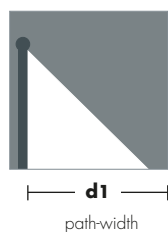
Part number	Description
	Power supply , grey, weather-resistant polycarbonate, IP67, IK08, integral constant current driver (AC/DC) preset to 500 mA, 2 x M20 cable glands for cable diameter 5 -14 mm
114 0 042 000	for 2 - 9 luminaires max. 14 W (for 9 luminaire max. distance 115 m)*
114 0 042 100	for 2 - 7 luminaires dimmable DALI max. 11 W (for 7 luminaires max. distance 170 m)*
114 0 052 100	for 6 - 20 luminaires dimmable DALI max. 36 W (for 20 luminaires max. distance 150 m)*

*Indication for cable 0.75 mm²

Part number	Description
230 2 606 000	Screwdriver , with allen ball head 2.5 mm, tool for luminaire installation

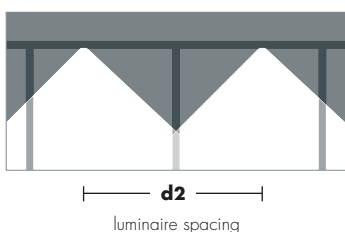
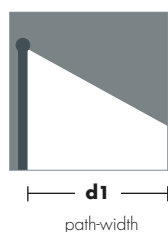
After completing the electrical connection, the plastic installation housing is inserted.

The luminaires are mounted flush with the handrail. **To explain this installation, there is a video on our website www.meyer-lighting.com.**



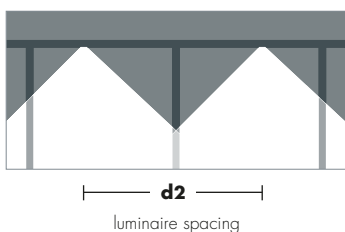
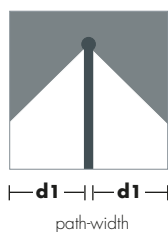
Nanodot, lateral wide beam

d2 \ d1	1.0 m		1.5 m	
	Em (lx)	Emin (lx)	Em (lx)	Emin (lx)
1.5 m	63	31	50	14
2.0 m	47	17	37	8
2.5 m	39	8	30	5
3.0 m	34	6	25	3
3.5 m	32	2	23	2
4.0 m	26	1	19	1



Nanodot, asymmetrical beam

d2 \ d1	2.0 m		3.0 m	
	Em (lx)	Emin (lx)	Em (lx)	Emin (lx)
1.0 m	54	17	38	3
1.5 m	35	6	25	2
2.0 m	26	2	18	2
2.5 m	24	1	17	1
3.0 m	18	0.6	13	0.6



Nanodot, asymmetrical beam in 2 directions

d2 \ d1	2 x 1 m		2 x 1.5 m		2 x 2 m	
	Em (lx)	Emin (lx)	Em (lx)	Emin (lx)	Em (lx)	Emin (lx)
1.0 m	45	26	34	9	26	3
1.5 m	30	12	23	5	18	2
2.0 m	22	5	16	2	12	1
2.5 m	19	2	15	1	11	0.5

Illumination values for 3000 K warm white LEDs



Monoline are façade luminaires with minimalist design and very small dimensions. Innovative wall washer optics create a uniform light distribution with clearly defined contours. In addition, luminaires with narrow beam or asymmetrical light distributions are available for various different façade lighting applications. Mounting options include a bracket and a wall arm to extend over wall protrusions to optimise the uniformity of the illumination.

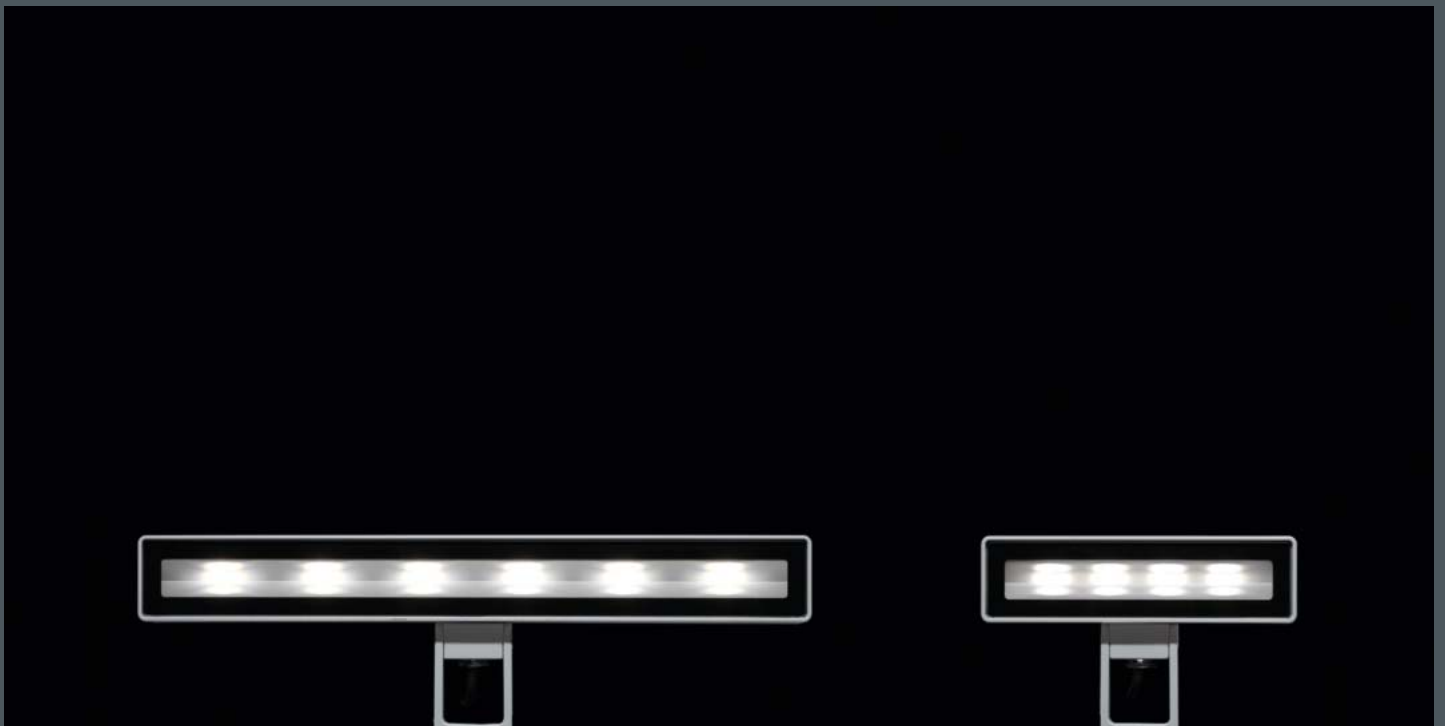


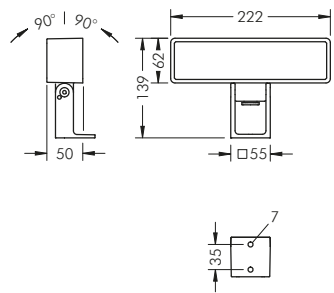
Hôtel de Ville, Sens
Lighting design:
Vittorio Sparta – Atelier Eclar
Photo: Michel Djaoui

For accent lighting applications, the luminaires feature narrow beam optics with minimal stray light.



Monoline is available in 2 sizes and wattages. Discrete installation and easy connection to mains voltage power supply is made possible by the small dimensions of the luminaires and by integral LED drivers.





**Monoline 1
with wall bracket**

With high performance LEDs,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: max. 3 SDCM
Service life: L80/B10 > 50 000 h
protection class I, IP65 , IK08
windage area AW 0.016 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
all exterior steel parts are stainless steel,
tempered safety glass,
silicon gasket, closure with 4 stainless steel screws,
wall bracket: 2 drilled holes Ø 7 mm,
spacing 35 mm, tilt range 180°,
M20 cable gland,
integral driver (AC/DC)

Monoline 1, narrow beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 780 146 019	black	1.2 kg	4 x LED 2.3 W	756 lm	11°
8 780 166 019	white		(9 W)		
8 780 156 019	silver grey		warm white (3000 K)		

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 780 145 019	black	1.2 kg	4 x LED 2.3 W	783 lm	11°
8 780 165 019	white		(9 W)		
8 780 155 019	silver grey		neutral white (4000 K)		

Monoline 1, wall washer

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 780 146 009	black	1.2 kg	4 x LED 2.3 W	507 lm	C 0 – 180
8 780 166 009	white		(9 W)		38°
8 780 156 009	silver grey		warm white (3000 K)		122°

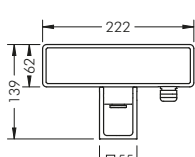
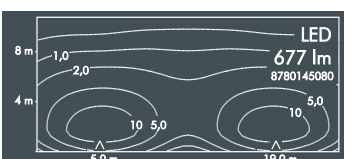
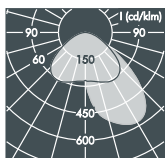
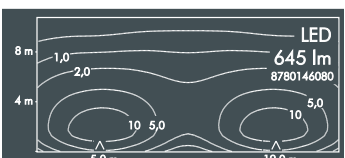
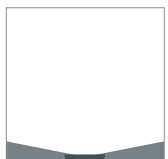
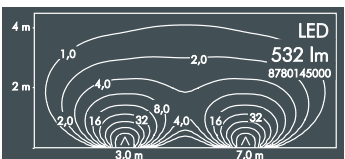
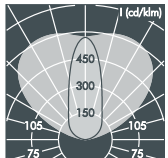
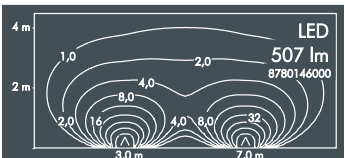
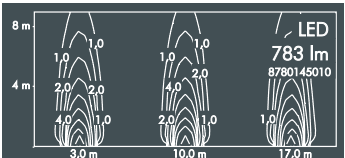
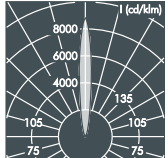
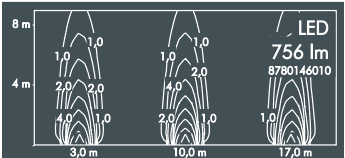
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 780 145 009	black	1.2 kg	4 x LED 2.3 W	532 lm	C 0 – 180
8 780 165 009	white		(9 W)		38°
8 780 155 009	silver grey		neutral white (4000 K)		122°

Monoline 1, asymmetrical beam

Part number	Colour	Weight	Light source	Luminous flux	Main beam angle γ
8 780 146 089	black	1.2 kg	4 x LED 2.3 W	645 lm	30°
8 780 166 089	white		(9 W)		
8 780 156 089	silver grey		warm white (3000 K)		

Part number	Colour	Weight	Light source	Luminous flux	Main beam angle γ
8 780 145 089	black	1.2 kg	4 x LED 2.3 W	677 lm	30°
8 780 165 089	white		(9 W)		
8 780 155 089	silver grey		neutral white (4000 K)		

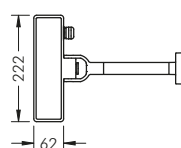
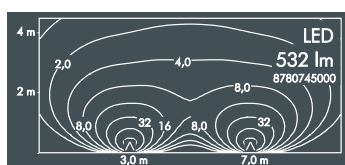
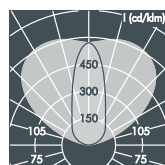
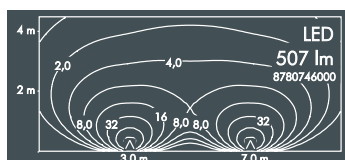
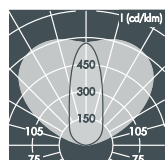
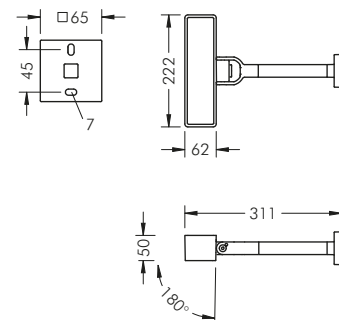
Part number	Description
1..	Dimmable luminaire (DALI)
4..	Luminaire with 2 cable glands for through wiring
5..	Luminaire dimmable version (DALI) with 2 cable glands for through wiring



LED
Luminaires available in 2700 K and other colour temperatures upon request

Monoline 1 with wall arm

With high performance LEDs,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: max. 3 SDCM
Service life: L80/B10 > 50 000 h
protection class I, IP65 , IK08
windage area AW 0.021 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
all exterior steel parts are stainless steel,
tempered safety glass,
silicon gasket, closure with 4 stainless steel screws,
mounting plate: 2 drilled holes Ø 7 mm,
spacing 45 mm, joint with tilt range 180°,
M20 cable gland,
integral driver (AC/DC)



Monoline 1, wall washer with wall arm

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 780 746 009	black	1.4 kg	4 x LED 2.3 W (9 W) warm white (3000 K)	507 lm	C 0 – 180	C 90 – 270
8 780 766 009	white				38°	122°
8 780 756 009	silver grey					

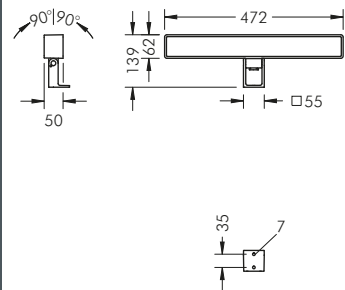
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 780 745 009	black	1.4 kg	4 x LED 2.3 W (9 W) neutral white (4000 K)	532 lm	C 0 – 180	C 90 – 270
8 780 765 009	white				38°	122°
8 780 755 009	silver grey					

Part number	Description
1..	Dimmable luminaire (DALI)
4..	Luminaire with 2 cable glands for through wiring
5..	Luminaire dimmable version (DALI) with 2 cable glands for through wiring

LED

Luminaires available in 2700 K and other colour temperatures upon request





Monoline 2 with wall bracket
With high performance LEDs,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: max. 3 SDCM
Service life: L80/B10 > 50 000 h
protection class I, IP65 , IK08
windage area AW 0.032 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
all exterior steel parts are stainless steel,
tempered safety glass,
silicon gasket, closure with 4 stainless steel screws,
wall bracket: 2 drilled holes Ø 7 mm,
spacing 35 mm, tilt range 180°,
M20 cable gland,
integral driver (AC/DC)

Monoline 2, narrow beam					
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 781 146 019	black	2.1 kg	6 x LED 4.5 W	1837 lm	11°
8 781 166 019	white		(27 W)		
8 781 156 019	silver grey		warm white (3000 K)		

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 781 145 019	black	2.1 kg	6 x LED 4.5 W	1928 lm	11°
8 781 165 019	white		(27 W)		
8 781 155 019	silver grey		neutral white (4000 K)		

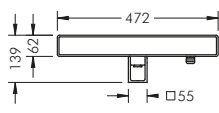
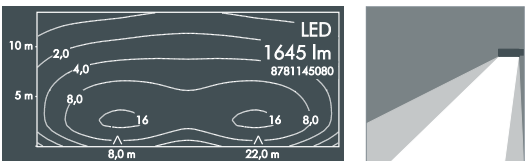
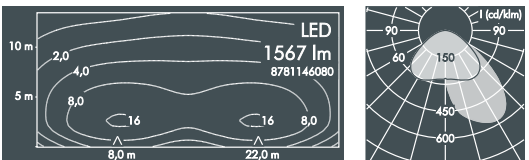
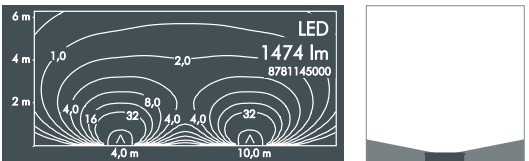
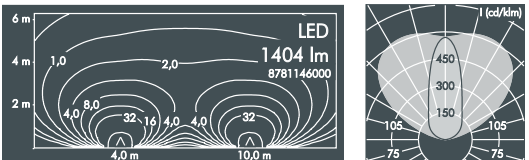
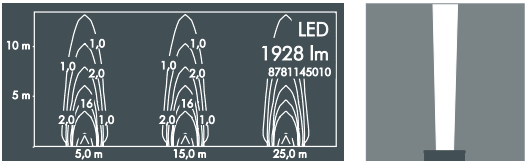
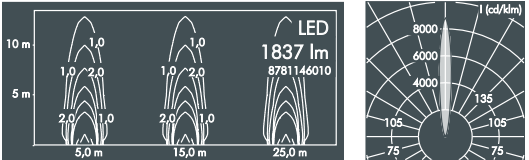
Monoline 2, wall washer					
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 781 146 009	black	2.1 kg	6 x LED 4.5 W	1404 lm	C 0 – 180
8 781 166 009	white		(27 W)		C 90 – 270
8 781 156 009	silver grey		warm white (3000 K)		38° 122°

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 781 145 009	black	2.1 kg	6 x LED 4.5 W	1474 lm	C 0 – 180
8 781 165 009	white		(27 W)		C 90 – 270
8 781 155 009	silver grey		neutral white (4000 K)		38° 122°

Monoline 2, asymmetrical beam					
Part number	Colour	Weight	Light source	Luminous flux	Main beam angle γ
8 781 146 089	black	2.1 kg	6 x LED 4.5 W	1567 lm	30°
8 781 166 089	white		(27 W)		
8 781 156 089	silver grey		warm white (3000 K)		

Part number	Colour	Weight	Light source	Luminous flux	Main beam angle γ
8 781 145 089	black	2.1 kg	6 x LED 4.5 W	1645 lm	30°
8 781 165 089	white		(27 W)		
8 781 155 089	silver grey		neutral white (4000 K)		

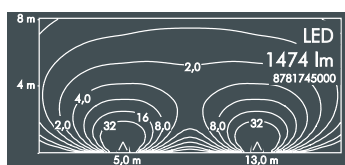
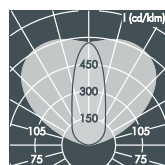
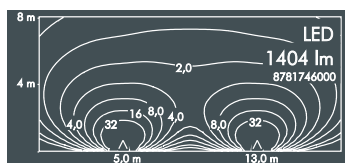
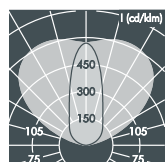
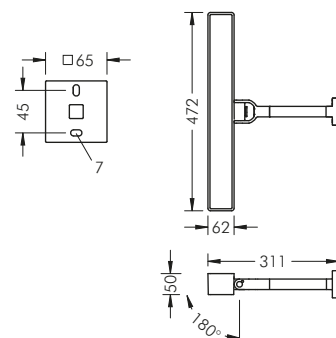
Part number	Description
• • • • • 1..	Dimmable luminaire (DALI)
• • • • • 4..	Luminaire with 2 cable glands for through wiring
• • • • • 5..	Luminaire dimmable version (DALI) with 2 cable glands for through wiring



LED
Luminaires available in 2700 K and other colour temperatures upon request
• • • • •

Monoline 2 with wall arm

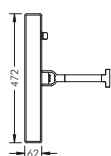
With high performance LEDs,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: max. 3 SDCM
Service life:: L80/B10 > 50 000 h
protection class I, IP65 , IK08
windage area AW 0.037 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
all exterior steel parts are stainless steel,
tempered safety glass,
silicon gasket, closure with 4 stainless steel screws,
mounting plate: 2 drilled holes Ø 7 mm,
spacing 45 mm, joint with tilt range 180°,
M20 cable gland,
integral driver (AC/DC)



Monoline 2 wall washer with wall arm

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 781 746 009	black	2.3 kg	6 x LED 4.5 W (27 W)	1404 lm	C 0 – 180	C 90 – 270
8 781 766 009	white		warm white (3000 K)		38°	122°
8 781 756 009	silver grey					

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 781 745 009	black	2.3 kg	6 x LED 4.5 W (27 W)	1474 lm	C 0 – 180	C 90 – 270
8 781 765 009	white		neutral white (4000 K)		38°	122°
8 781 755 009	silver grey					

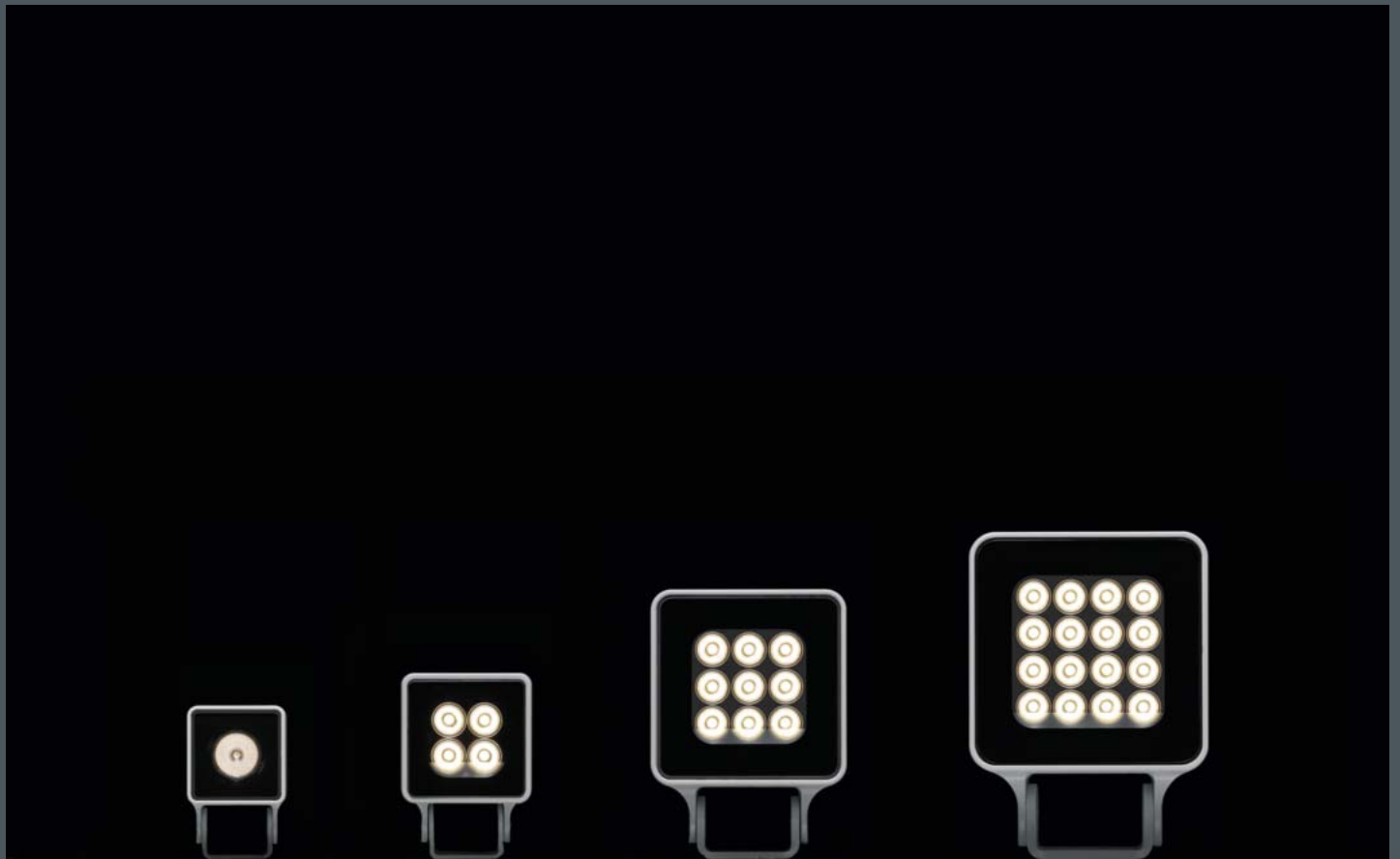


Part number	Description
1..	Dimmable luminaire (DALI)
4..	Luminaire with 2 cable glands for through wiring
5..	Luminaire dimmable version (DALI) with 2 cable glands for through wiring

LED

Luminaires available in 2700 K and other colour temperatures upon request





Monocube are floodlights with very compact dimensions and minimalist design that blend discretely into the architecture. The luminaire housings have a smooth surface and are therefore easy to clean and to maintain. With a choice of various different light distributions, they are flexible tools for architectural lighting – especially on façades. Monocube floodlights feature integral LED drivers and can be easily connected to mains voltage power supply.



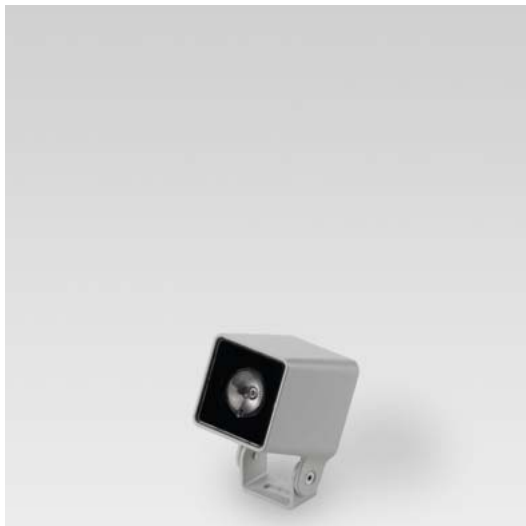
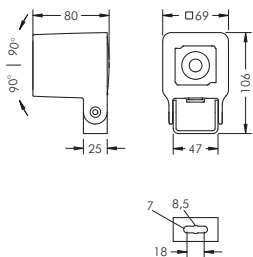
Optical film is available as an accessory in order to adapt the light distributions to the exact requirements of a lighting project. Samples can be tested and specified during mock-ups on site. Afterwards, this film will be factory fitted into the floodlights.

Nya Östermalmshallen, Stockholm
Lighting design: Light Bureau AFRY, Stockholm



Monocube feature very small dimensions and are installed unobtrusively.
The floodlights in sizes 3 and 4 can be equipped with CASAMBI®-App ready drivers and be dimmed via Bluetooth Low Energy technology without the necessity of a control wire.





Monocube 1 with mounting bracket

With 1 x high performance LED,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: max. 2 SDCM
Service life: L90/B10 > 50 000 h
protection class I, IP65 , IK08
windage area AW 0.006 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
precise PMMA optic,
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
closure with 4 stainless steel screws,
mounting bracket: 1 elongated hole Ø 7 mm,
spacing 18 mm, 1 centre hole Ø 8.5 mm,
tilt range 180°, M16 cable gland,
integral driver (AC/DC)

Monocube 1, narrow beam

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 261 046 019	black	0.6 kg	1 x LED 3 W warm white (3000 K)	148 lm	4°
8 261 066 019	white				
8 261 056 019	silver grey				

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 261 045 019	black	0.6 kg	1 x LED 3 W neutral white (4000 K)	156 lm	4°
8 261 065 019	white				
8 261 055 019	silver grey				

Monocube 1, linear beam spread, vertical

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 261 046 029	black	0.6 kg	1 x LED 3 W warm white (3000 K)	146 lm	C 0 – 180	C 90 – 270
8 261 066 029	white				37°	8°
8 261 056 029	silver grey					

8 261 045 029	black	0.6 kg	1 x LED 3 W neutral white (4000 K)	153 lm	C 0 – 180	C 90 – 270
8 261 065 029	white				37°	8°
8 261 055 029	silver grey					

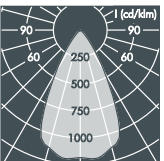
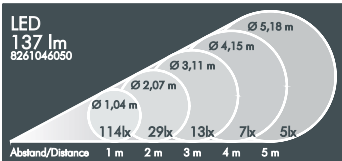
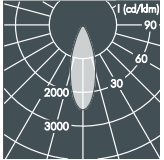
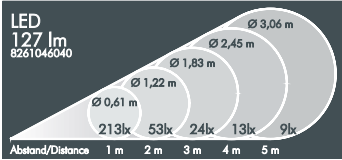
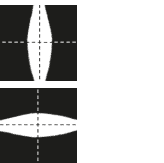
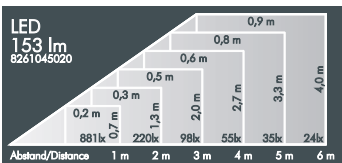
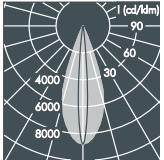
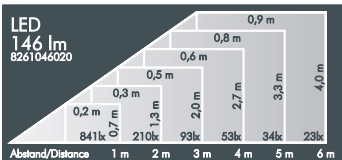
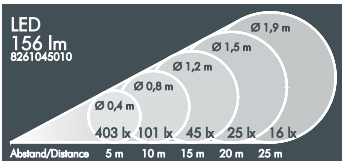
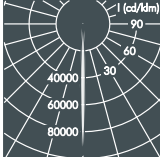
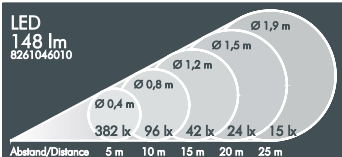
Part number*	Description
... .3.	Luminaire with linear beam spread, horizontal

Monocube 1, medium wide beam

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 261 046 049	black	0.6 kg	1 x LED 3 W warm white (3000 K)	127 lm	34°
8 261 066 049	white				
8 261 056 049	silver grey				

Monocube 1, wide beam

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 261 046 059	black	0.6 kg	1 x LED 3 W warm white (3000 K)	137 lm	55°
8 261 066 059	white				
8 261 056 059	silver grey				

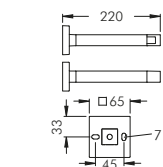


*Dimmable luminaires (DALI or 1–10 V) with external control gear unit and with further distribution options are available upon request.

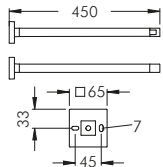
LED

Luminaires available in 2700 K and other colour temperatures upon request

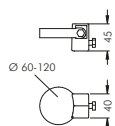



Accessories Monocube 1 external, for retro-fitting

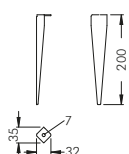
Part number	Colour	Description
128 0 738 940	black	Wall arm 220 mm, aluminium, polyester powder coated
128 0 738 960	white	
128 0 738 950	silver grey	



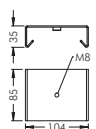
Part number	Colour	Description
128 0 739 940	black	Wall arm 450 mm, aluminium, polyester powder coated
128 0 739 960	white	
128 0 739 950	silver grey	



Part number	Colour	Description
128 0 760 940	black	Pole clamp, aluminium, polyester powder coated, stainless steel strap, for mounting on poles Ø 60 - 120 mm
128 0 760 960	white	
128 0 760 950	silver grey	

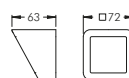


Part number	Colour	Description
123 0 470 940	black	Earth spike, stainless steel, for use in landscaped areas
123 0 470 960	white	
123 0 470 950	silver grey	



Part number	Description
120 0 661 940	Expandable tree strap with mounting plate, made of polyester fiber for trunk circumference max. 140 cm*, with polyester powder coated mounting plate

*different lengths available upon request



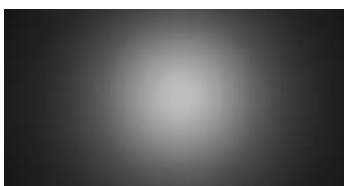
Part number	Colour	Description
122 0 521 940	black	Cowl, stainless steel, to avoid glare from 3 directions, for retro-fitting
122 0 521 960	white	
122 0 521 950	silver grey	

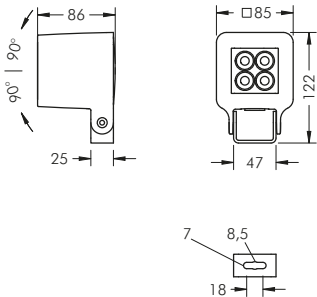

Accessories Monocube 1 internal, factory fitted

Part number	Description
122 0 164 000	Honeycomb louvre to avoid glare



Part number	Description	Beam angle γ (FWHM)	
		narrow beam	medium wide beam
122 0 165 000	Diffuser film + for moderate light diffusion	8°	
122 0 166 000	Diffuser film + + for medium light diffusion	14°	
122 0 167 000	Diffuser film + + + for strong light diffusion	24°	
		narrow beam	medium wide beam
122 0 168 000	Prismatic film for linear beam control, vertical	41° / 5°	42° / 21°
122 0 169 000	Prismatic film for linear beam control, horizontal	5° / 41°	21° / 42°





**Monocube 2
with mounting bracket**

With 4 x high performance LEDs,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: max. 2 SDCM
Service life: L90/B10 > 50 000 h
protection class I, IP65 , IK08
windage area AW 0.008 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
precise PMMA optics,
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
closure with 4 stainless steel screws,
mounting bracket: 1 elongated hole Ø 7 mm,
spacing 18 mm, 1 centre hole Ø 8.5 mm,
tilt range 180°, M20 cable gland,
integral driver (AC/DC)

Monocube 2, narrow beam

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 262 046 019	black	0.9 kg	4 x LED 1.7 W	563 lm	6°
8 262 066 019	white		(7 W)		
8 262 056 019	silver grey		warm white (3000 K)		

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 262 045 019	black	0.9 kg	4 x LED 1.7 W	629 lm	6°
8 262 065 019	white		(7 W)		
8 262 055 019	silver grey		neutral white (4000 K)		

Monocube 2, linear beam spread, vertical

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 262 046 029	black	0.9 kg	4 x LED 1.7 W	516 lm	C 0 – 180	C 90 – 270
8 262 066 029	white		(7 W)		54°	7°
8 262 056 029	silver grey		warm white (3000 K)			

8 262 045 029	black	0.9 kg	4 x LED 1.7 W	542 lm	C 0 – 180	C 90 – 270
8 262 065 029	white		(7 W)		54°	7°
8 262 055 029	silver grey		neutral white (4000 K)			

Part number*	Description
. 3.	Luminaire with linear beam spread, horizontal

Monocube 2, medium wide beam

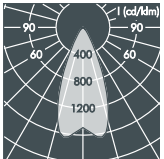
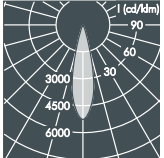
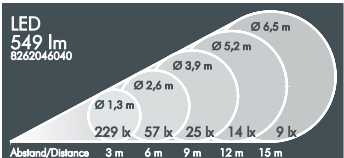
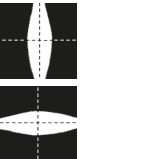
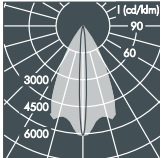
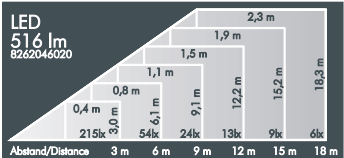
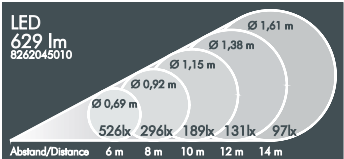
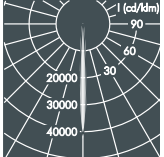
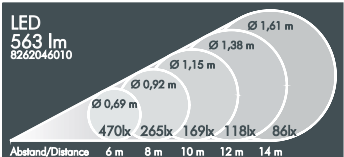
Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 262 046 049	black	0.9 kg	4 x LED 1.7 W	549 lm	25°
8 262 066 049	white		(7 W)		
8 262 056 049	silver grey		warm white (3000 K)		

Monocube 2, wide beam

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 262 046 059	black	0.9 kg	4 x LED 1.7 W	464 lm	44°
8 262 066 059	white		(7 W)		
8 262 056 059	silver grey		warm white (3000 K)		

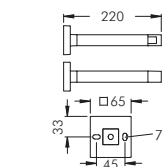
Part number*	Description	Light source
. 1..	Dimmable luminaire (DALI)	4 x LED 1 W (4 W)

*Luminaires available with other light distributions upon request



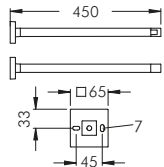
LED
Luminaires available in 2700 K and other colour temperatures upon request



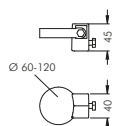


Accessories Monocube 2 external, for retro-fitting

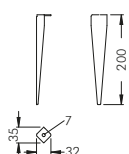
Part number	Colour	Description
128 0 738 940	black	Wall arm 220 mm, aluminium, polyester powder coated
128 0 738 960	white	
128 0 738 950	silver grey	



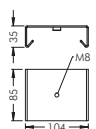
Part number	Colour	Description
128 0 739 940	black	Wall arm 450 mm, aluminium, polyester powder coated
128 0 739 960	white	
128 0 739 950	silver grey	



Part number	Colour	Description
128 0 760 940	black	Pole clamp, aluminium, polyester powder coated, stainless steel strap, for mounting on poles Ø 60 - 120 mm
128 0 760 960	white	
128 0 760 950	silver grey	

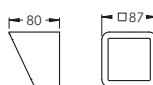


Part number	Colour	Description
123 0 470 940	black	Earth spike, stainless steel, for use in landscaped areas
123 0 470 960	white	
123 0 470 950	silver grey	

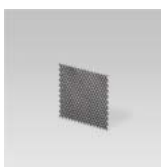


Part number	Description
120 0 661 940	Expandable tree strap with mounting plate, made of polyester fiber for trunk circumference max. 140 cm*, with polyester powder coated mounting plate

*different lengths available upon request



Part number	Colour	Description
122 0 522 940	black	Cowl, stainless steel, to avoid glare from 3 directions, for retro-fitting
122 0 522 960	white	
122 0 522 950	silver grey	

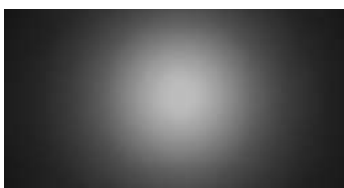


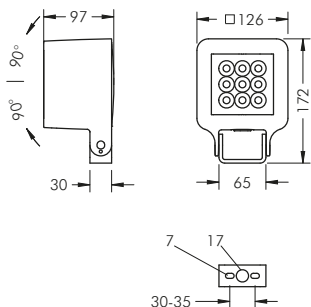
Accessories Monocube 2 internal, factory fitted

Part number	Description
238 0 205 000	Honeycomb louvre to avoid glare



Part number	Description	Beam angle γ (FWHM)	
		narrow beam	medium wide beam
122 0 170 000	Diffuser film + for moderate light diffusion	10°	
122 0 171 000	Diffuser film + + for medium light diffusion	16°	
122 0 172 000	Diffuser film + + + for strong light diffusion	26°	
		narrow beam	medium wide beam
122 0 173 000	Prismatic film for linear beam control, vertical	43° / 7°	44° / 23°
122 0 174 000	Prismatic film for linear beam control, horizontal	7° / 43°	23° / 44°





**Monocube 3
with mounting bracket**

With 9 x high performance LEDs,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: max. 2 SDCM
Service life: L90/B10 > 50 000 h
protection class I, IP65 , IK08
windage area AW 0.013 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
precise PMMA optics,
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
closure with 4 stainless steel screws,
mounting bracket: 2 drilled holes Ø 7 mm,
spacing 30 - 35 mm, 1 centre hole Ø 17 mm,
tilt range 180°, M20 cable gland,
integral driver (AC/DC)

Monocube 3, narrow beam

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 263 046 019	black	1.8 kg	9 x LED 2.5 W (23 W) warm white (3000 K)	1811 lm	6°
8 263 066 019	white				
8 263 056 019	silver grey				

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 263 045 019	black	1.8 kg	9 x LED 2.5 W (23 W) neutral white (4000 K)	1903 lm	6°
8 263 065 019	white				
8 263 055 019	silver grey				

Monocube 3, linear beam spread, vertical

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 263 046 029	black	1.8 kg	9 x LED 2.5 W (23 W) warm white (3000 K)	1624 lm	C 0 – 180	C 90 – 270
8 263 066 029	white				54°	7°
8 263 056 029	silver grey					

8 263 045 029	black	1.8 kg	9 x LED 2.5 W (23 W) neutral white (4000 K)	1705 lm	C 0 – 180	C 90 – 270
8 263 065 029	white				54°	7°
8 263 055 029	silver grey					

Part number*	Description
... 3.	Luminaire with linear beam spread, horizontal

Monocube 3, medium wide beam

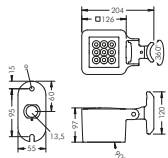
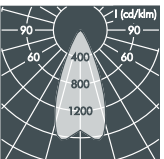
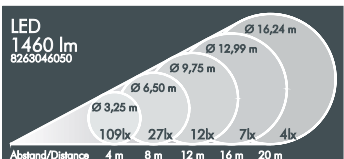
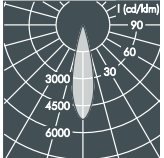
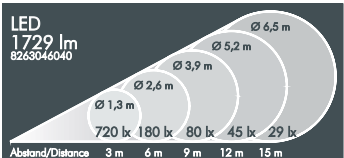
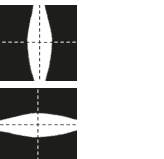
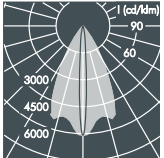
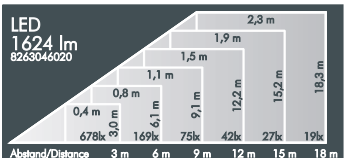
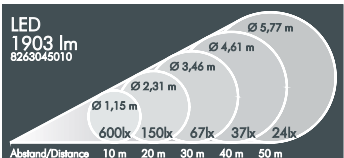
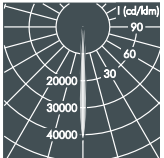
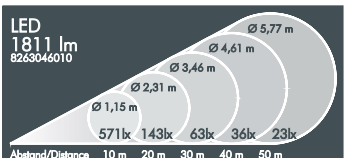
Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 263 046 049	black	1.8 kg	9 x LED 2.5 W (23 W) warm white (3000 K)	1729 lm	25°
8 263 066 049	white				
8 263 056 049	silver grey				

Monocube 3, wide beam

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 263 046 059	black	1.8 kg	9 x LED 2.5 W (23 W) warm white (3000 K)	1460 lm	44°
8 263 066 059	white				
8 263 056 059	silver grey				

Part number*	Description
... 2. ...	Pole luminaire , tilt range 90°, swivel range 360°
... 1..	Dimmable luminaire (DALI)
... 3..	Dimmable luminaire (CASAMBI®-App)
... 4..	Luminaire with 2 cable glands for through wiring

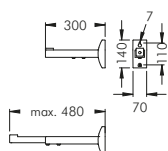
*Luminaires available with other light distributions upon request



LED

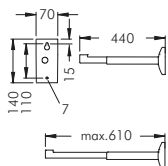
Luminaires available in 2700 K and other colour temperatures upon request



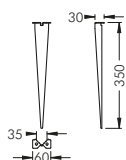


Accessories Monocube 3 external, for retro-fitting

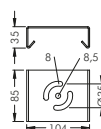
Part number	Colour	Description
128 0 700 940	black	Telescopic wall arm 300 - 480 mm, aluminium, polyester powder coated
128 0 700 960	white	
128 0 700 950	silver grey	



Part number	Colour	Description
128 0 730 940	black	Telescopic wall arm 440 - 610 mm, aluminium, polyester powder coated
128 0 730 960	white	
128 0 730 950	silver grey	

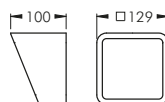


Part number	Colour	Description
122 0 512 940	black	Earth spike, stainless steel, for use in landscaped areas
122 0 512 960	white	
122 0 512 950	silver grey	

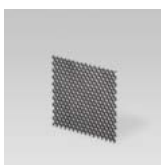
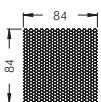


Part number	Description
120 0 664 940	Expandable tree strap with mounting plate, made of polyester fiber for trunk circumference max. 140 cm*, with polyester powder coated mounting plate

*different lengths available upon request

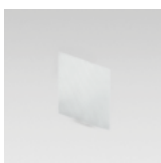
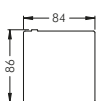


Part number	Colour	Description
122 0 523 940	black	Cowl, stainless steel, to avoid glare from 3 directions, for retro-fitting
122 0 523 960	white	
122 0 523 950	silver grey	

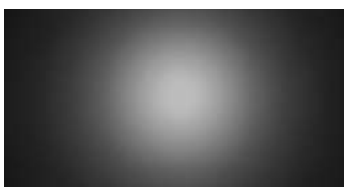


Accessories Monocube 3 internal, factory fitted

Part number	Description
238 0 206 000	Honeycomb louvre to avoid glare



Part number	Description	Beam angle γ (FWHM)	
		narrow beam	medium wide beam
122 0 176 000	Diffuser film + for moderate light diffusion	10°	
122 0 177 000	Diffuser film + + for medium light diffusion	16°	
122 0 178 000	Diffuser film + + + for strong light diffusion	26°	
		narrow beam	medium wide beam
122 0 179 000	Prismatic film for linear beam control, vertical	43° / 7°	44° / 23°
122 0 180 000	Prismatic film for linear beam control, horizontal	7° / 43°	23° / 44°





Monocube 4, narrow beam

Part number*	Colour	Weight	light source	luminous flux	Beam angle γ (FWHM)
8 264 046 019	black	2.4 kg	16 x LED 2.3 W	3086 lm	6°
8 264 066 019	white		(37 W)		
8 264 056 019	silver grey		warm white (3000 K)		

Part number*	Colour	Weight	light source	luminous flux	Beam angle γ (FWHM)
8 264 045 019	black	2.4 kg	16 x LED 2.3 W	3241 lm	6°
8 264 065 019	white		(37 W)		
8 264 055 019	silver grey		neutral white (4000 K)		

Part number*	Colour	Weight	light source	luminous flux	Beam angle γ (FWHM)	
8 264 046 029	black	2.4 kg	16 x LED 2.3 W (37 W)	2762 lm	C 0 – 180	C 90 – 270
8 264 066 029	white				54°	7°
8 264 056 029	silver grey		warm white (3000 K)			

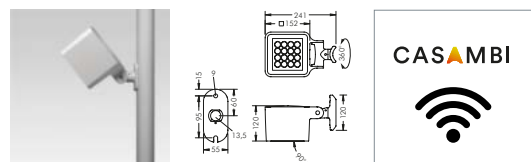
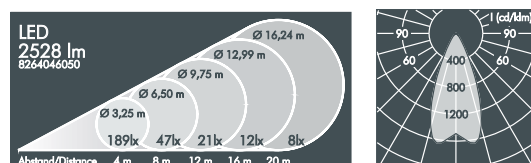
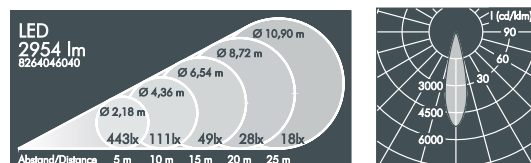
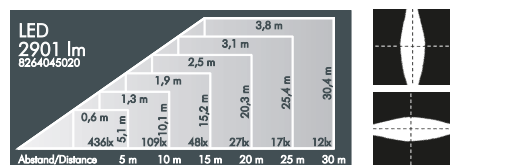
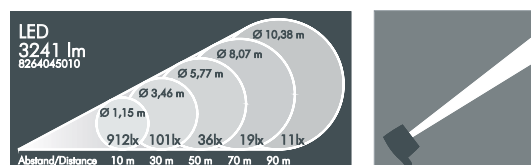
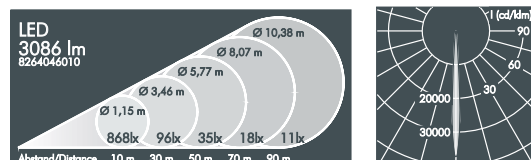
8 264 045 029	black	2.4 kg	16 x LED 2.3 W (37 W) neutral white (4000 K)	2901 lm	C 0 – 180	C 90 – 270
8 264 065 029	white				54°	7°
8 264 055 029	silver grey					

Part number*	Description
.3.	Luminaire with linear beam spread, horizontal

Part number*	Colour	Weight	light source	Luminous flux	Beam angle γ (FWHM)
8 264 046 049	black	2.4 kg	16 x LED 2.3 W	2954 lm	25°
8 264 066 049	white		(37 W)		
8 264 056 049	silver grey		warm white (3000 K)		

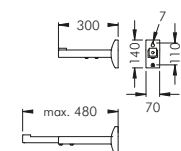
Part number*	Colour	Weight	light source	luminous flux	Beam angle γ (FWHM)
8 264 046 059	black	2.4 kg	16 x LED 2.3 W	2528 lm	44°
8 264 066 059	white		(37 W)		
8 264 056 059	silver grey		warm white (3000 K)		

Part number*	Description
. . . . 2 . . .	Pole luminaire , tilt range 90°, swivel range 360°
. 1 . .	Dimmable luminaire (DALI)
. 3 . .	Dimmable luminaire (CASAMBI®-App)
. 4 . .	Luminaire with 2 cable glands for through wiring



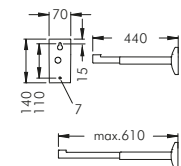
Luminaire available in 2700 K and other colour temperatures upon request



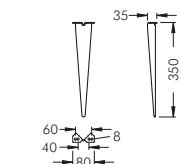


Accessories Monocube 4 external, for retro-fitting

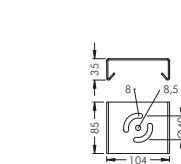
Part number	Colour	Description
128 0 700 940	black	Telescopic wall arm 300 - 480 mm, aluminium, polyester powder coated
128 0 700 960	white	
128 0 700 950	silver grey	



Part number	Colour	Description
128 0 730 940	black	Telescopic wall arm 440 - 610 mm, aluminium, polyester powder coated
128 0 730 960	white	
128 0 730 950	silver grey	

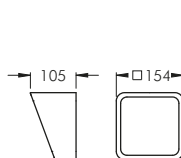


Part number	Colour	Description
129 0 736 940	black	Earth spike, stainless steel, for use in landscaped areas
129 0 736 960	white	
129 0 736 950	silver grey	

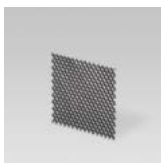
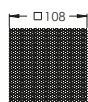


Part number	Description
120 0 620 940	Expandable tree strap with mounting plate, made of polyester fiber for trunk circumference max. 140 cm*, with polyester powder coated mounting plate

*different lengths available upon request

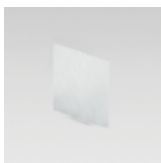
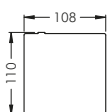


Part number	Colour	Description
122 0 524 940	black	Cowl, stainless steel, to avoid glare from 3 directions, for retro-fitting
122 0 524 960	white	
122 0 524 950	silver grey	

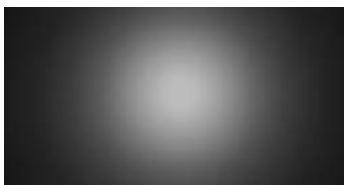


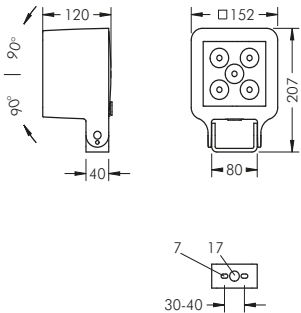
Accessories Monocube 4 internal, factory fitted

Part number	Description
232 0 599 000	Honeycomb louvre to avoid glare



Part number	Description	Beam angle γ (FWHM)	
		narrow beam	medium wide beam
122 0 181 000	Diffuser film + for moderate light diffusion	10°	
122 0 182 000	Diffuser film + + for medium light diffusion	16°	
122 0 183 000	Diffuser film + + + for strong light diffusion	26°	
		narrow beam	medium wide beam
122 0 184 000	Prismatic film for linear beam control, vertical	43° / 7°	44° / 23°
122 0 185 000	Prismatic film for linear beam control, horizontal	7° / 43°	23° / 44°



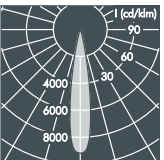
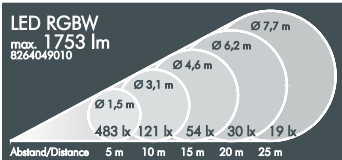


Monocube 4 RGBW with mounting bracket

With 5 x high performance LEDs RGBW, external DMX-controller required, integral temperature monitoring device, protection class I, IP65 , IK08 windage area A_W 0.02 m² corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated, precise PMMA optics, all exterior steel parts are stainless steel, tempered safety glass, silicon gasket, closure with 4 stainless steel screws, mounting bracket: 2 drilled holes Ø 7 mm, spacing 30 - 40 mm, 1 centre hole Ø 17 mm, tilt range 180°, 2 x M20 cable gland, RDM compatible integral driver (AC/DC)

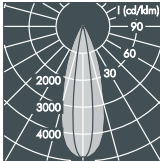
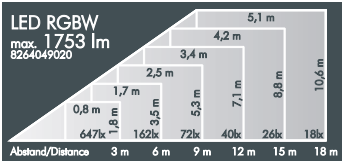
Monocube 4 RGBW, narrow beam

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 264 049 019	black	2.8 kg	5 x LED RGBW	max.	16°
8 264 069 019	white		W = 3000 K	1753 lm	
8 264 059 019	silver grey		(max. 48 W)		



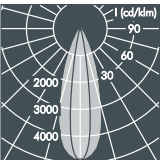
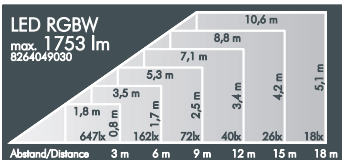
Monocube 4 RGBW, linear beam spread, vertical

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 264 049 029	black	2.8 kg	5 x LED RGBW	max.	C 0 - 180
8 264 069 029	white		W = 3000 K	1753 lm	C 90 - 270
8 264 059 029	silver grey		(max. 48 W)		33°



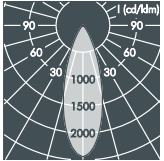
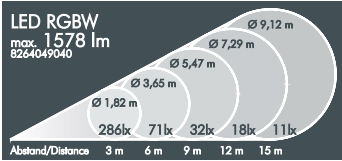
Monocube 4 RGBW, linear beam spread, horizontal

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 264 049 039	black	2.8 kg	5 x LED RGBW	max.	C 0 - 180
8 264 069 039	white		W = 3000 K	1753 lm	C 90 - 270
8 264 059 039	silver grey		(max. 48 W)		16°



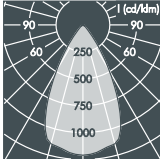
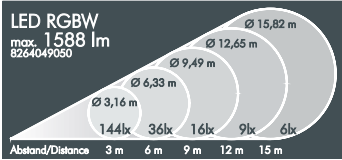
Monocube 4 RGBW, medium wide beam

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 264 049 049	black	2.8 kg	5 x LED RGBW	max.	33°
8 264 069 049	white		W = 3000 K	1578 lm	
8 264 059 049	silver grey		(max. 48 W)		

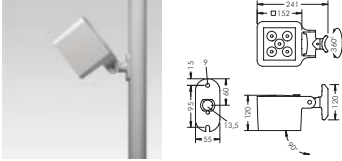


Monocube 4 RGBW, wide beam

Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 264 049 059	black	2.8 kg	5 x LED RGBW	max.	55°
8 264 069 059	white		W = 3000 K	1588 lm	
8 264 059 059	silver grey		(max. 48 W)		

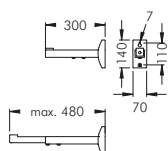


Part number*	Description
... 2... ..	Pole luminaire, tilt range 90°, swivel range 360°



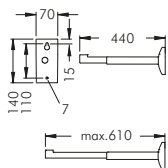
*The luminaires are available with LEDs in different colour combinations and Tunable White (2700 K - 6500 K) upon request.



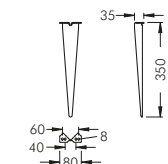


Accessories Monocube 4 external, for retro-fitting

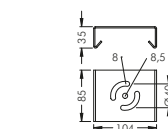
Part number	Colour	Description
128 0 700 940	black	Telescopic wall arm 300 - 480 mm,
128 0 700 960	white	aluminium, polyester powder coated
128 0 700 950	silver grey	



Part number	Colour	Description
128 0 730 940	black	Telescopic wall arm 440 - 610 mm,
128 0 730 960	white	aluminium, polyester powder coated
128 0 730 950	silver grey	

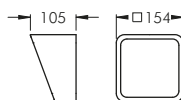


Part number	Colour	Description
129 0 736 940	black	Earth spike, stainless steel,
129 0 736 960	white	for use in landscaped areas
129 0 736 950	silver grey	

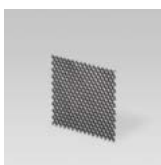
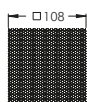


Part number	Description
120 0 620 940	Expandable tree strap with mounting plate,
	made of polyester fiber for trunk circumference max. 140 cm*,
	with polyester powder coated mounting plate

*different lengths available upon request

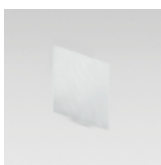
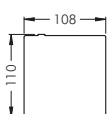


Part number	Colour	Description
122 0 524 940	black	Cowl, stainless steel,
122 0 524 960	white	to avoid glare from 3 directions,
122 0 524 950	silver grey	for retro-fitting

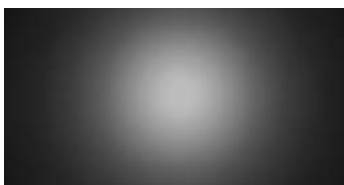


Accessories Monocube 4 internal, factory fitted

Part number	Description
232 0 599 000	Honeycomb louvre to avoid glare



Part number	Description
122 0 181 000	Diffuser film + for moderate light diffusion
122 0 182 000	Diffuser film + + for medium light diffusion
122 0 183 000	Diffuser film + + + for strong light diffusion
122 0 184 000	Prismatic film for linear beam control, vertical
122 0 185 000	Prismatic film for linear beam control, horizontal





The Uplight S product range are luminaires with extremely shallow recess depth. This product feature ensures that the luminaires do not collide with existing infrastructure in the ground, such as electrical or water conduit. Adjustable collimator optics with various different light distributions make these products versatile tools for architectural and landscape lighting. Optimal glare control can be achieved by the use of honeycomb louvres as an accessory.



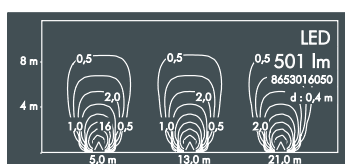
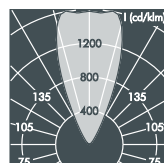
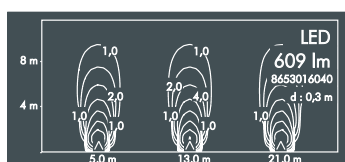
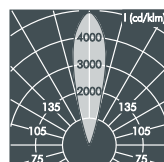
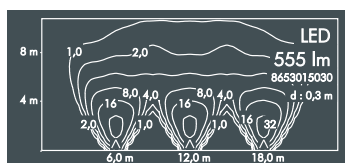
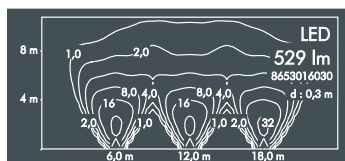
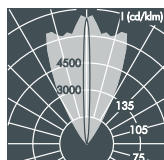
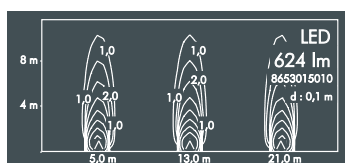
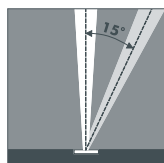
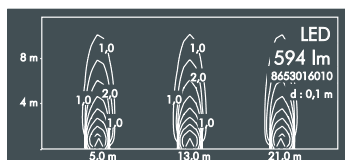
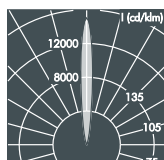
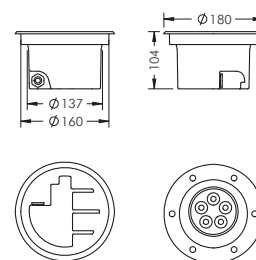
The small recess depth of the luminaires makes their installation unproblematic.



Hotel Maassluis, Netherlands
Lighting design: Livingprojects B.V., Breda

Uplight 180 S adjustable optics

With 5 x high performance LEDs,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: max. 2 SDCM
Service life: L90/B10 > 50 000 h
protection class I,
IP68 (according to DIN EN 60598-2-13) , IK10
corrosion-resistant cast aluminium housing AlSi12,
double powder coated,
precise PMMA optics,
tilt range 0-15°, lockable,
all exterior steel parts are stainless steel,
tempered safety glass flush with frame,
for loads up to max. 5000 kg, silicon gasket,
V4A stainless steel trim ring and 6 screws,
M20 cable gland with 0.8 m cable H07RN-F3G1,
integral driver (AC/DC)



Uplight 180 S, adjustable optics, narrow beam

Part number	Weight	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 653 016 019	2.3 kg	5 x LED 2 W (10 W) warm white (3000 K)	594 lm	0 – 15°	10°

Part number	Weight	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 653 015 019	2.3 kg	5 x LED 2 W (10 W) neutral white (4000 K)	624 lm	0 – 15°	10°

Uplight 180 S, adjustable optics, linear beam spread (horizontal)

Part number	Weight	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 653 016 039	2.3 kg	5 x LED 2 W (10 W) warm white (3000 K)	529 lm	0 – 15°	C 0 – 180
					C 90 – 270 6° 55°

Part number	Weight	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 653 015 039	2.3 kg	5 x LED 2 W (10 W) neutral white (4000 K)	555 lm	0 – 15°	C 0 – 180
					C 90 – 270 6° 55°

Uplight 180 S, adjustable optics, medium wide beam

Part number	Weight	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 653 016 049	2.3 kg	5 x LED 2 W (10 W) warm white (3000 K)	609 lm	0 – 15°	26°

Uplight 180 S, adjustable optics, wide beam

Part number	Weight	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 653 016 059	2.3 kg	5 x LED 2 W (10 W) warm white (3000 K)	501 lm	0 – 15°	46°

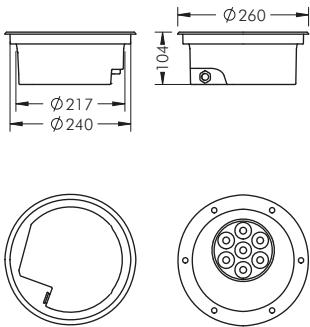
Part number	Description
... 1 ...	Luminaire with slip resistant glass (R13 according to DIN EN 51130) The light distribution becomes more diffuse.
... 5 ...	Luminaire with neutral white colour temperature (4000 K)
... 1 ..	Dimmable luminaire (DALI)
8 654 ...	Luminaire for installation flush with surrounding surface (in combination with installation sleeve 126 0 390 060)

Accessories see page 55

LED

luminaires available in 2700 K and other colour temperatures upon request





Uplight 260 S adjustable optics

With 7 x high performance LEDs,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: max. 2 SDCM
Service life: L90/B10 > 50 000 h
protection class I,
IP68 (according to DIN EN 60598-2-13) , IK10
corrosion-resistant cast aluminium housing AlSi12,
double powder coated,
precise PMMA optics,
tilt range 0-15°, lockable,
all exterior steel parts are stainless steel,
tempered safety glass flush with frame,
for loads up to max. 4500 kg, silicon gasket,
V4A stainless steel trim ring and 6 screws,
M20 cable gland with 0.8 m cable H07RN-F3G1,
integral driver

Uplight 260 S, adjustable optics, narrow beam

Part number	Weight	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 669 016 019	4.8 kg	7 x LED 3.5 W (25 W) warm white (3000 K)	2002 lm	0 – 15°	10°

Part number	Weight	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 669 015 019	4.8 kg	7 x LED 3.5 W (25 W) neutral white (4000 K)	2102 lm	0 – 15°	10°

Uplight 260 S, adjustable optics, medium wide beam

Part number	Weight	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 669 016 049	4.8 kg	7 x LED 3.5 W (25 W) warm white (3000 K)	1921 lm	0 – 15°	32°

Part number	Weight	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 669 015 049	4.8 kg	7 x LED 3.5 W (25 W) neutral white (4000 K)	2017 lm	0 – 15°	32°

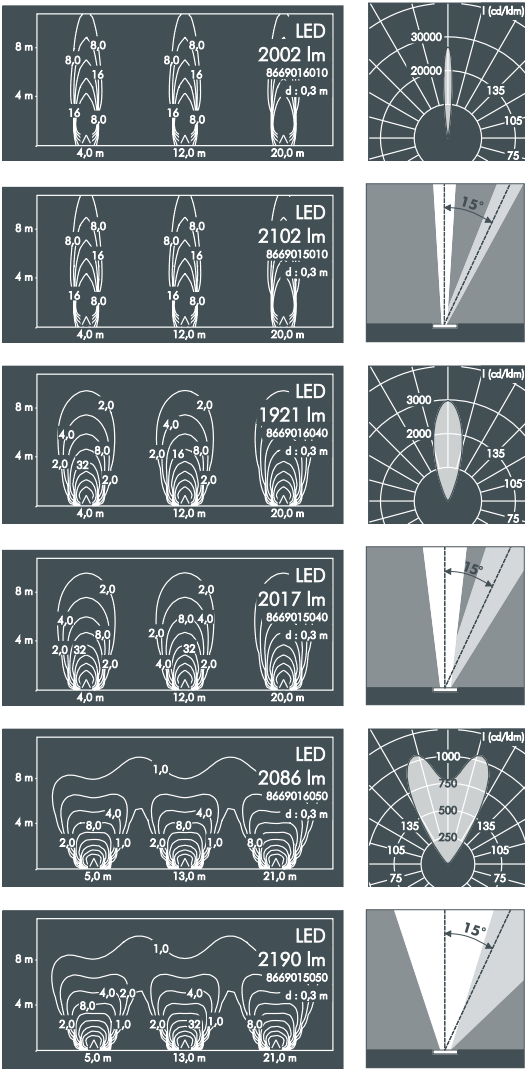
Uplight 260 S, adjustable optics, wide beam

Part number	Weight	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 669 016 059	4.8 kg	7 x LED 3.5 W (25 W) warm white (3000 K)	2086 lm	0 – 15°	62°

Part number	Weight	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 669 015 059	4.8 kg	7 x LED 3.5 W (25 W) neutral white (4000 K)	2190 lm	0 – 15°	62°

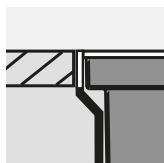
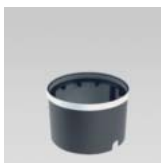
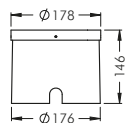
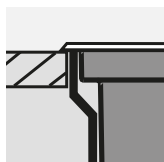
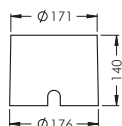
Part number	Description
. 1..	Dimmable luminaire (DALI)
. . . 1.. . . .	Luminaire with slip resistant glass (R13 according to DIN EN 51130) The light distribution becomes more diffuse.
8 670	Luminaire for installation flush with surrounding surface (in combination with installation sleeve 126 0 391 060)

Accessories see page 55



LED
Luminaires available in 2700 K and other colour temperatures upon request





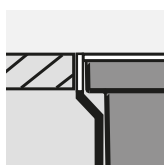
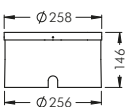
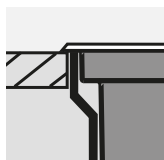
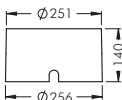
Accessories Uplight 180 S

Part number	Description
126 0 390 000	Installation sleeve , polypropylene, for luminaire with overlapping trim (for luminaires 8 653)

Part number	Description
126 0 390 060	Installation sleeve , polypropylene, for luminaire with trim for flush mounting (for luminaires 8 654)

Part number	Description
126 0 468 000	Honeycomb louvre* , internal, factory fitted, to avoid glare

* for retro-fitting, only one accessory per luminaire, not in combination



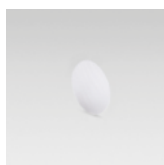
Accessories Uplight 260 S

Part number	Description
126 0 391 000	Installation sleeve , polypropylene, for luminaire with overlapping trim (for luminaires 8 669)

Part number	Description
126 0 391 060	Installation sleeve , polypropylene, for luminaire with trim for flush mounting (for luminaires 8 670)

Part number	Description
126 0 470 000	Honeycomb louvre* , internal, factory fitted, to avoid glare

* for retro-fitting, only one accessory per luminaire, not in combination



Uplight 260 S, narrow beam

		Half beam angle γ	
Part number	Description	C 0-180	C 90-270
126 0 474 000	Ribbed glass spreader lense* , for linear beam control, continuously adjustable through 360°	10°	57°

* for retro-fitting, only one accessory per luminaire, not in combination



The ground-recessed luminaire Uplight 250 is equipped with the newly developed Tight Lock mechanism. This allows the orientation of the reflector to be changed without having to open the luminaire housing. With this innovation the risk of water ingress during the installation of the luminaire is eliminated. The stainless steel trim blends harmoniously with the flooring. In addition, precise reflectors feature excellent glare control.



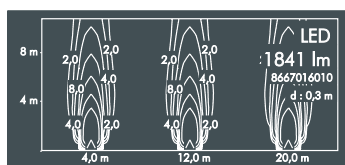
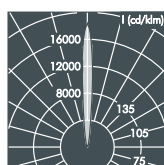
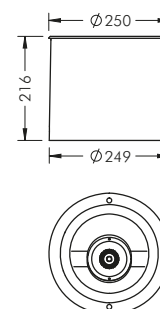
In order to tilt the reflector, the outer trim is removed temporarily and an adjusting bolt is turned with a wrench. The luminaire housing remains closed and watertight during this adjustment.



Bundeskunsthalle Bonn, Paul Schmits

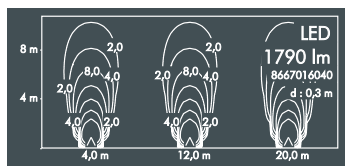
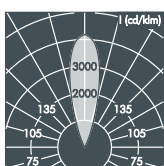
Uplight 250 with Tight Lock, externally adjustable optics

With high performance LED module (Zhaga),
integral temperature monitoring device,
CRI: > 80, Colour tolerance: 3 SDCM
Service life: L80/B10 > 50 000 h
Protection class I,
IP67 (according to DIN EN 60598-2-13) $\blacklozenge$ $\blacktriangle$ $\blacktriangledown$, IK10
corrosion-resistant cast aluminium housing AlSi12,
double powder coated,
with polypropylene installation sleeve,
highly efficient aluminium reflector,
externally adjustable reflector system,
tilt range 0-20°,
with Heatslide mechanism for optimal heat dissipation,
all exterior steel parts are stainless steel,
tempered safety glass, for loads up to max. 4500 kg,
silicon gasket,
V4A stainless steel trim ring closure with 2 screws,
M20 cable gland, with 0.8 m cable H07RN-F3G1,
integral driver (AC)



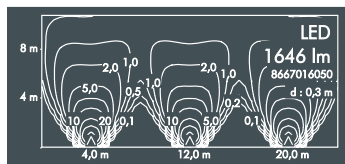
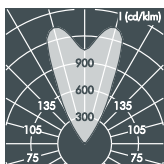
Uplight 250, narrow beam, with Tight Lock, externally adjustable optics

Part number	Weight	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 667 016 019	5.4 kg	1 x LED module 18 W warm white (3000 K)	1841 lm	0 – 20°	9°



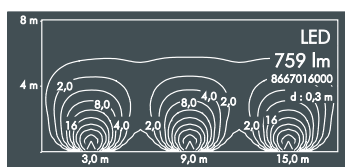
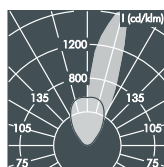
Uplight 250, medium wide beam, with Tight Lock, externally adjustable optics

Part number	Weight	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 667 016 049	5.4 kg	1 x LED module 18 W warm white (3000 K)	1790 lm	0 – 20°	28°



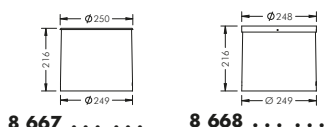
Uplight 250, wide beam, with Tight Lock, externally adjustable optics

Part number	Weight	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 667 016 059	5.4 kg	1 x LED module 18 W warm white (3000 K)	1646 lm	0 – 20°	52°



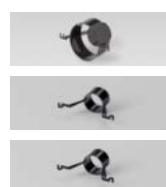
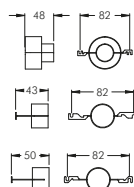
Uplight 250, wall washer, with Tight Lock, externally adjustable optics

Part number	Weight	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 667 016 009	5.4 kg	1 x LED module 18 W warm white (3000 K)	759 lm	0 – 20°	C 0 – 180 25° C 90 – 270 75°



overlapping
trim ring

trim ring for
flush mounting



Part number	Description
... 1 ...	Luminaire with slip resistant glass (R13 according to DIN EN 51130) The light distribution becomes more diffuse.
... 5 ...	Luminaire with neutral white colour temperature (4000 K)
... 1 ...	Dimmable luminaire (DALI)
8 668 ...	Luminaire for installation flush with surrounding surface

Accessories Uplight 250, with Tight Lock, externally adjustable optics

Part number	Light distribution	Description
126 0 471 940	narrow beam	Radial louvre, internal (factory fitted), to reduce lateral glare
126 0 472 940	medium wide beam	
126 0 463 940	wide beam	

LED

Luminaires available in 2700 K and other colour temperatures upon request





The exemplary floodlight series Monospot is extended by new versions with very shallow housings. Monospot S brings minimalist design to the next level and the luminaires can be integrated even more easily into the architecture. With compact dimensions and precise optics the floodlights are used for accent lighting on façades or to illuminate objects from a long distance. They are available in 4 different sizes and wattages.



Viaduc SNCF Lyon Perrache

Lighting design:

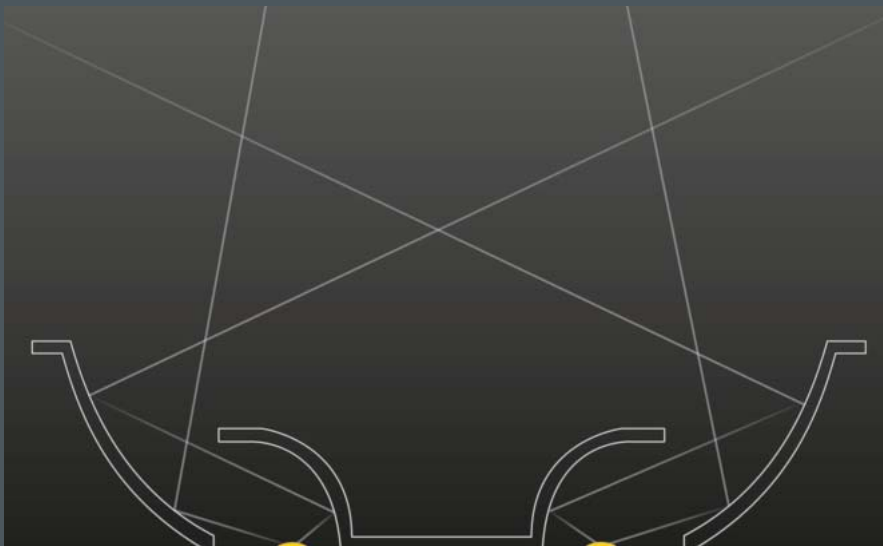
Direction de l'Eclairage Urbain de la Ville de Lyon

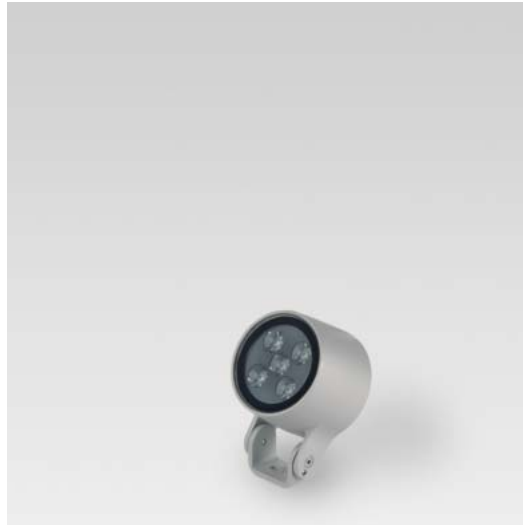
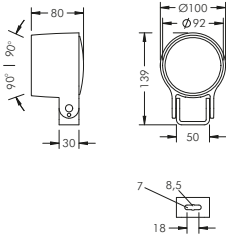
Photo: Michel Djaoui

Monospot S pole luminaires are available with a tilt-and-turn fixing system. The combination of floodlights with different optics makes creative lighting scenarios possible. The neutral design blends harmoniously into the urban environment or landscape architecture.



Monospot S features an innovative indirect reflector system for wide beam light distribution. The light of LEDs, which are completely shielded, is directed via precise reflectors. Perfect glare control and high efficiency are achieved simultaneously.



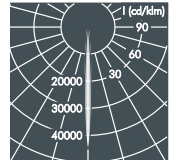
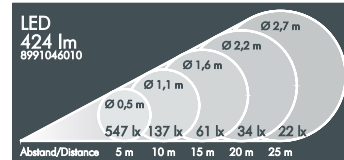


Monospot S1 with mounting bracket

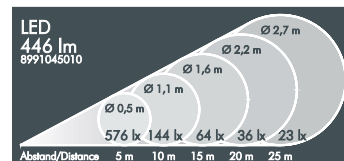
With 5 x high performance LEDs,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: max. 2 SDCM
Service life: L90/B10 > 50 000 h
protection class I, IP67 , IK08
windage area AW 0.009 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
precise PMMA optics,
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
closure with 2 stainless steel screws,
mounting bracket: 1 elongated hole Ø 7 mm,
spacing 18 mm, 1 centre hole Ø 8.5 mm,
tilt range 180°, M16 cable gland,
integral driver (AC/DC)

Monospot S1, narrow beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 991 046 019	black	0.9 kg	5 x LED 1.2 W (6 W) warm white (3000 K)	424 lm	6°
8 991 066 019	white				
8 991 056 019	silver grey				



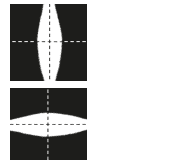
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 991 045 019	black	0.9 kg	5 x LED 1.2 W (6 W) neutral white (4000 K)	446 lm	6°
8 991 065 019	white				
8 991 055 019	silver grey				



Monospot S1, linear beam spread, vertical

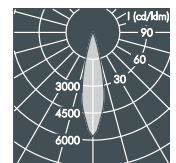
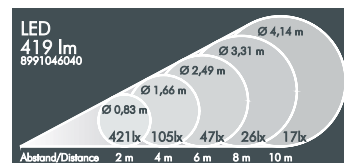
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 991 046 029	black	0.9 kg	5 x LED 1.2 W (6 W) warm white (3000 K)	399 lm	C 0 – 180	C 90 – 270
8 991 066 029	white				55°	7°
8 991 056 029	silver grey					

. 3. Luminaire with linear beam spread, horizontal

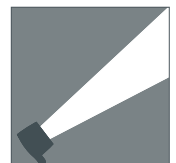
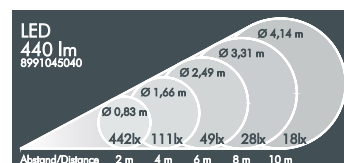


Monospot S1, medium wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 991 046 049	black	0.9 kg	5 x LED 1.2 W (6 W) warm white (3000 K)	419 lm	24°
8 991 066 049	white				
8 991 056 049	silver grey				

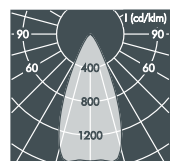
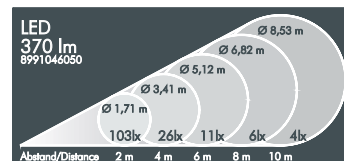


Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 991 045 049	black	0.9 kg	5 x LED 1.2 W (6 W) neutral white (4000 K)	440 lm	24°
8 991 065 049	white				
8 991 055 049	silver grey				

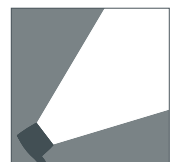
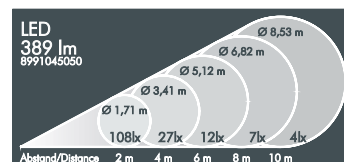


Monospot S1, wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 991 046 059	black	0.9 kg	5 x LED 1.2 W (6 W) warm white (3000 K)	370 lm	46°
8 991 066 059	white				
8 991 056 059	silver grey				



Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 991 045 059	black	0.9 kg	5 x LED 1.2 W (6 W) neutral white (4000 K)	389 lm	46°
8 991 065 059	white				
8 991 055 059	silver grey				



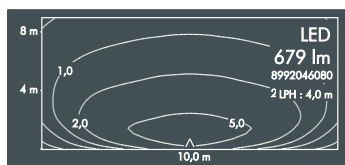
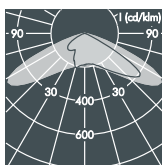
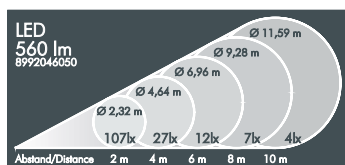
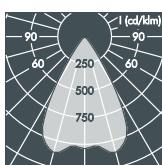
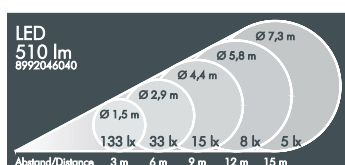
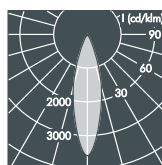
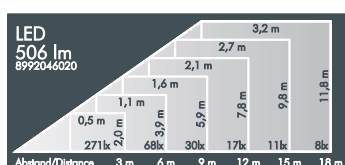
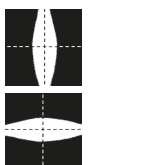
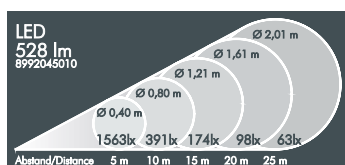
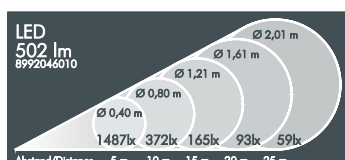
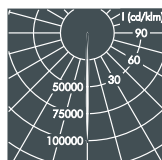
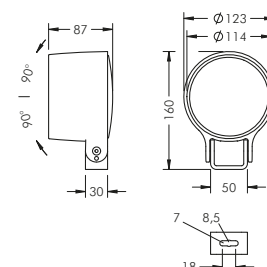
LED

Luminaires available in 2700 K and other colour temperatures upon request



Monospot S2 with mounting bracket

With 4 x high performance LEDs,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: max. 2 SDCM
Service life: L90/B10 > 50 000 h
protection class I, IP67 , IK08
windage area AW 0.012 m²
corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
precise PMMA optics,
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
closure with 2 stainless steel screws,
mounting bracket: 1 elongated hole Ø 7 mm,
spacing 18 mm, 1 centre hole Ø 8.5 mm,
tilt range 180°, M16 cable gland,
integral driver (AC/DC)



Monospot S2, narrow beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 992 046 019	black	1.2 kg	4 x LED 2.5 W (10 W) warm white (3000 K)	502 lm	4°
8 992 066 019	white				
8 992 056 019	silver grey				

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 992 045 019	black	1.2 kg	4 x LED 2.5 W (10 W) neutral white (4000 K)	528 lm	4°
8 992 065 019	white				
8 992 055 019	silver grey				

Monospot S2, linear beam spread, vertical

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 992 046 029	black	1.2 kg	4 x LED 2.5 W (10 W) warm white (3000 K)	506 lm	C 0 – 180
8 992 066 029	white				C 90 – 270
8 992 056 029	silver grey				36°

Monospot S2, linear beam spread, horizontal

Monospot S2, medium wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 992 046 049	black	1.2 kg	4 x LED 2.5 W (10 W) warm white (3000 K)	510 lm	27°
8 992 066 049	white				
8 992 056 049	silver grey				

Monospot S2, wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 992 046 059	black	1.2 kg	4 x LED 2.5 W (10 W) warm white (3000 K)	560 lm	60°
8 992 066 059	white				
8 992 056 059	silver grey				

Monospot S2, asymmetrical wide beam

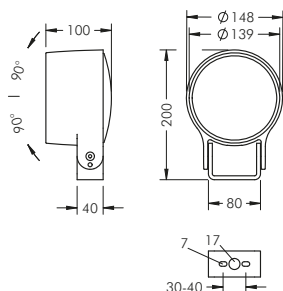
Part number	Colour	Weight	Light source	Luminous flux	Main beam angle γ
8 992 046 089	black	1.2 kg	1 x LED 9 W warm white (3000 K)	679 lm	C 0 – 180
8 992 066 089	white				C 90 – 270
8 992 056 089	silver grey				53°

Part number	Description
8 992 046 089	Luminaire with neutral white colour temperature (4000 K)
8 992 056 089	Dimmable luminaire (DALI)

LED

Luminaires available in 2700 K and other colour temperatures upon request



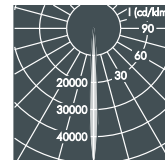
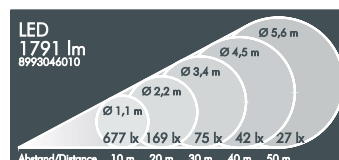


Monospot S3 with mounting bracket

With high performance LED or LED module Zhaga, integral temperature monitoring device, CRI: > 80, Colour tolerance: max. 2 SDCM
Service life: L90/B10 > 50 000 h
protection class I, IP67 , IK08
windage area AW 0.016 m²
corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated,
precise PMMA optics, highly efficient aluminium indirect reflector or silicon optic,
all exterior steel parts are stainless steel, tempered safety glass, silicon gasket,
closure with 2 stainless steel screws,
mounting bracket: 2 drilled holes Ø 7 mm, spacing 30 - 40 mm, 1 centre hole Ø 17 mm,
tilt range 180°, M16 cable gland,
integral driver (AC/DC)

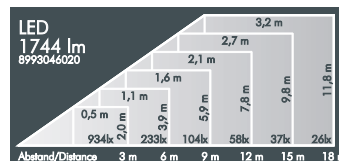
Monospot S3, narrow beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM) γ
8 993 046 019	black	1.8 kg	5 x LED 5.2 W (26 W) warm white (3000 K)	1791 lm	6°
8 993 066 019	white				
8 993 056 019	silver grey				



Monospot S3, linear beam spread, vertical

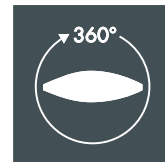
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 993 046 029	black	1.8 kg	5 x LED 5.2 W (26 W) warm white (3000 K)	1744 lm	C 0 – 180
8 993 066 029	white				C 90 – 270
8 993 056 029	silver grey				36°



. 3. Luminaire with linear beam spread, horizontal

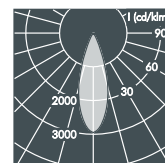
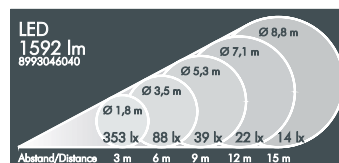
Monospot S3, linear beam spread, rotatable

Part number	Colour	Description	Luminous flux	Beam angle γ (FWHM)
8 993 046 079	black	Luminaire with external ribbed glass spreader lens, continuously adjustable through 360° from outside the luminaire	1433 lm	C 0 – 180
8 993 066 079	white			C 90 – 270
8 993 056 079	silver grey			6°



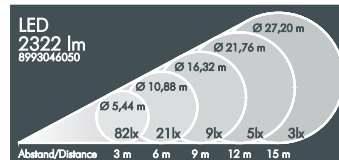
Monospot S3, medium wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 993 046 049	black	1.8 kg	5 x LED 5.2 W (26 W) warm white (3000 K)	1592 lm	33°
8 993 066 049	white				
8 993 056 049	silver grey				



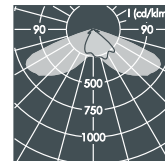
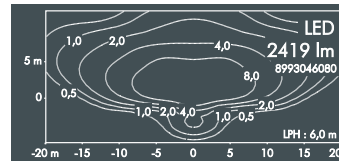
Monospot S3, wide beam (with indirect reflector)

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 993 046 059	black	1.7 kg	1 x LED module 28 W warm white (3000 K)	2322 lm	84°
8 993 066 059	white				
8 993 056 059	silver grey				



Monospot S3, Street Optic

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 993 046 089	black	1.8 kg	1 x LED module 27 W warm white (3000 K)	2419 lm	C 0 – 180
8 993 066 089	white				C 90 – 270
8 993 056 089	silver grey				52°



Part number	Description
. 5 . . .	Luminaire with neutral white colour temperature (4000 K)
. 1 . .	Dimmable luminaire (DALI)

LED

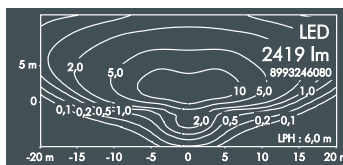
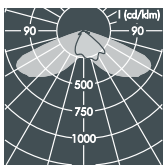
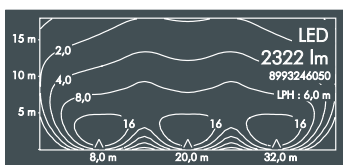
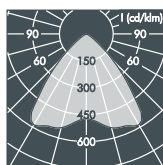
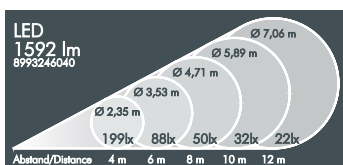
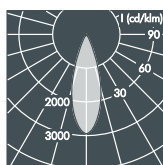
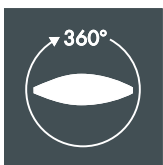
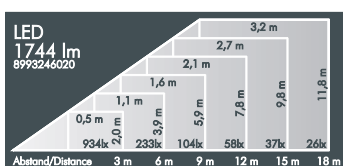
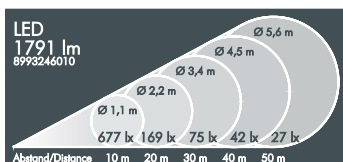
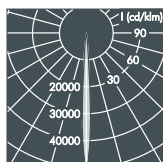
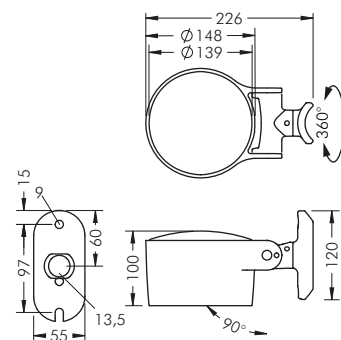
Luminaires available in 2700 K and other colour temperatures upon request



Monospot S3 pole luminaire

With high performance LED or LED module Zhaga,
integral temperature monitoring device,
CRI: > 80, Colour tolerance: max. 2 SDCM
Service life: L90/B10 > 50 000 h
protection class I, IP67, IK08
windage area AW 0.018 m²

corrosion-resistant die cast aluminium housing AlSi12,
polyester powder coated,
precise PMMA optics, highly efficient aluminium
indirect reflector or silicon optic,
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
closure with 2 stainless steel screws,
for installation on poles Ø 60 - 100 mm,
tiltable base made of powder coated aluminium,
2 drilled holes Ø 9 mm, spacing 97 mm,
1 drilled hole Ø 13.5 mm, tilt range 90°
swivel range 360°, M16 cable gland,
integral driver (AC/DC)



Monospot S3 pole luminaire, narrow beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 993 246 019	black	2.0 kg	5 x LED 5.2 W	1791 lm	6°
8 993 266 019	white		(26 W)		
8 993 256 019	silver grey		warm white (3000 K)		

Monospot S3 pole luminaire, linear beam spread, vertical

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 993 246 029	black	2.0 kg	5 x LED 5.2 W	1744 lm	C 0 – 180
8 993 266 029	white		(26 W)		36°
8 993 256 029	silver grey		warm white (3000 K)		10°

Monospot S3 pole luminaire, linear beam spread, horizontal

Monospot S3 pole luminaire, linear beam spread, rotatable

Part number	Colour	Description	Luminous flux	Beam angle γ (FWHM)
8 993 246 079	black	Luminaire with external ribbed glass spreader lens, continuously adjustable through 360° from outside the luminaire	1433 lm	C 0 – 180
8 993 266 079	white			6°
8 993 256 079	silver grey			23°

Weight 2.1 kg

Monospot S3 pole luminaire, medium wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 993 246 049	black	2.0 kg	5 x LED 5.2 W	1592 lm	33°
8 993 266 049	white		(26 W)		
8 993 256 049	silver grey		warm white (3000 K)		

Monospot S3 pole luminaire, wide beam (with indirect reflector)

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 993 246 059	black	1.9 kg	1 x LED module 28 W	2322 lm	84°
8 993 266 059	white		warm white (3000 K)		
8 993 256 059	silver grey				

Monospot S3 pole luminaire, Street Optic

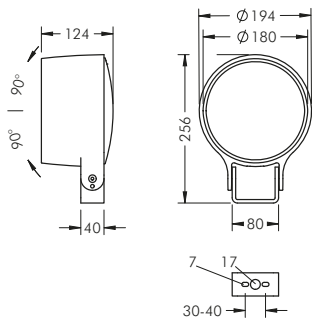
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 993 246 089	black	2.0 kg	1 x LED module 27 W	2419 lm	C 0 – 180
8 993 266 089	white		warm white (3000 K)		52°
8 993 256 089	silver grey				138°

Part number	Description
8 993 246 059	Luminaire with neutral white colour temperature (4000 K)
8 993 246 059	Dimmable luminaire (DALI)

LED

Luminaires available in 2700 K and other colour temperatures upon request



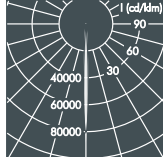
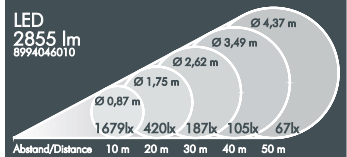


Monospot S4 with mounting bracket

With high performance LED or LED module Zhaga, integral temperature monitoring device, CRI: > 80, Colour tolerance: max. 2 SDCM Service life: L90/B10 > 50 000 h protection class I, IP67 , IK08 windage area AW 0.025 m² corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated, precise PMMA optics, highly efficient aluminium indirect reflector or silicon optic, all exterior steel parts are stainless steel, tempered safety glass, silicon gasket, closure with 3 stainless steel screws, mounting bracket: 2 drilled holes Ø 7 mm, spacing 30 - 40 mm, 1 centre hole Ø 17 mm, tilt range 180°, M20 cable gland, integral driver (AC/DC) or integral RGBW driver (DMX - RDM)

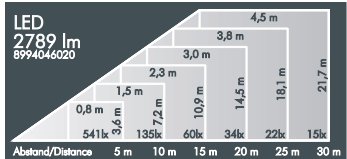
Monospot S4, narrow beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 994 046 019	black	3.0 kg	6 x LED 7.7 W	2855 lm	5°
8 994 066 019	white		(46 W)		
8 994 056 019	silver grey		warm white (3000 K)		



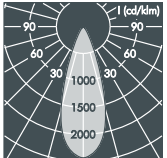
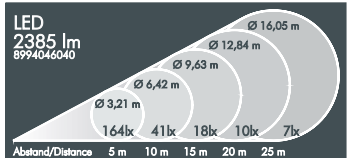
Monospot S4, linear beam spread, vertical

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 994 046 029	black	3.0 kg	6 x LED 7.7 W	2789 lm	C 0 – 180
8 994 066 029	white		(46 W)		40°
8 994 056 029	silver grey		warm white (3000 K)		8°



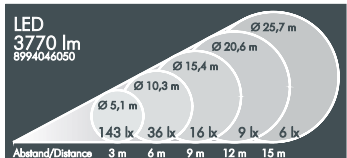
Monospot S4, medium wide beam

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 994 046 049	black	3.0 kg	6 x LED 7.7 W	2385 lm	35°
8 994 066 049	white		(46 W)		
8 994 056 049	silver grey		warm white (3000 K)		



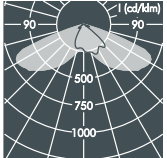
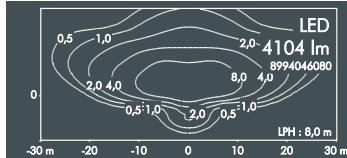
Monospot S4, wide beam (with indirect reflector)

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 994 046 059	black	2.9 kg	1 x LED module 45 W	3770 lm	92°
8 994 066 059	white		warm white (3000 K)		
8 994 056 059	silver grey				

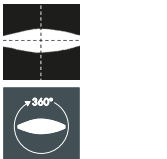


Monospot S4, Street Optic

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 994 046 089	black	3.0 kg	1 x LED module 46 W	4104 lm	C 0 – 180
8 994 066 089	white		warm white (3000 K)		52°
8 994 056 089	silver grey				138°

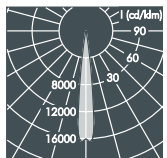
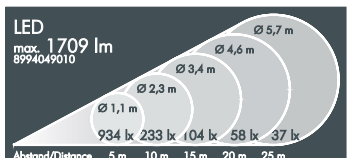


Part number	Description
8 994 046 039	Luminaire with linear beam spread, horizontal
8 994 066 039	Luminaire with linear beam spread, rotatable
8 994 056 039	Luminaire with neutral white colour temperature (4000 K)
8 994 046 019	Dimmable luminaire (DALI)



Monospot S4 RGBW, narrow beam*

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 994 049 019	black	3.1 kg	6 x LED module RGBW	max.	13°
8 994 069 019	white		W = 3000 K	1709 lm	
8 994 059 019	silver grey		(max. 48 W)		



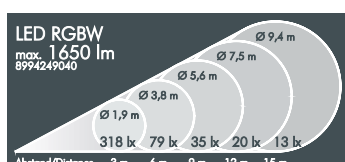
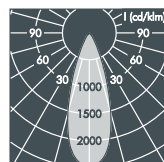
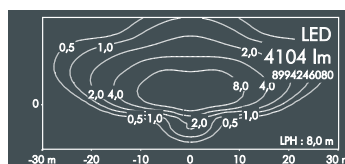
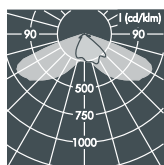
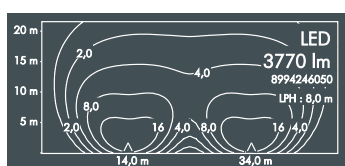
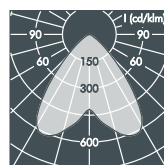
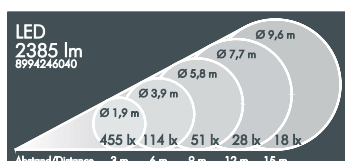
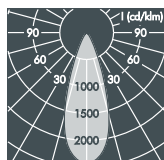
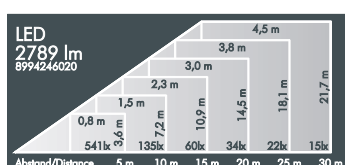
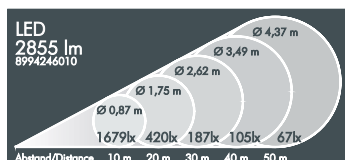
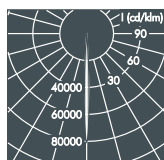
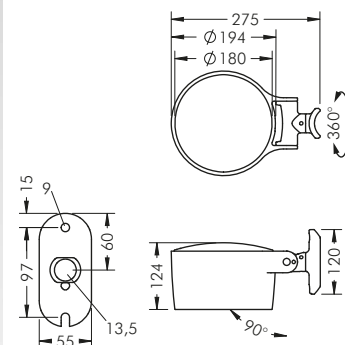
* Further distribution options are available upon request.

LED

Luminaires available in 2700 K and other colour temperatures upon request



corrosion-resistant die cast aluminium housing AlSi 12,
polyester powder coated,
precise PMMA optics, highly efficient aluminium
indirect reflector or silicon optic,
all exterior steel parts are stainless steel,
tempered safety glass, silicon gasket,
closure with 3 stainless steel screws,
for installation on poles Ø 60 - 100 mm,
tiltable base made of powder coated aluminium,
2 drilled holes Ø 9 mm, spacing 97 mm,
1 drilled hole Ø 13.5 mm, tilt range 90°,
swivel range 360°, M20 cable gland,
integral driver (AC/DC) or
integral RGBW driver (DMX - RDM)



Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 994 246 019	black	3.3 kg	6 x LED 7.7 W	2855 lm	5°
8 994 266 019	white		(46 W)		
8 994 256 019	silver grey		warm white (3000 K)		

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 994 246 029	black	3.3 kg	6 x LED 7.7 W (46 W) warm white (3000 K)	2789 lm	C 0 – 180	C 90 – 270
8 994 266 029	white				40°	8°
8 994 256 029	silver grey					

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 994 246 049	black	3.3 kg	6 x LED 7.7 W	2385 lm	35°
8 994 266 049	white		(46 W)		
8 994 256 049	silver grey		warm white (3000 K)		

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 994 246 059	black	3.2 kg	1 x LED module 45 W warm white (3000 K)	3770 lm	92°
8 994 266 059	white				
8 994 256 059	silver grey				

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
8 994 246 089	black	3.3 kg	1 x LED module 46 W warm white (3000 K)	4104 lm	C 0 – 180	C 90 – 270
8 994 266 089	white				52°	138°
8 994 256 089	silver grey					

Part number	Description						
.3.	Luminaire with linear beam spread, horizontal						
.7.	<table border="1"> <tr> <td>Luminaire with linear beam spread, rotatable with external ribbed glass spreader lens, continuously adjustable through 360° from outside the luminaire</td><td>Beam angle γ (FWHM)</td></tr> <tr> <td></td><td>C 0 – 180 C 90 – 270</td></tr> <tr> <td></td><td>5° 24°</td></tr> </table>	Luminaire with linear beam spread, rotatable with external ribbed glass spreader lens, continuously adjustable through 360° from outside the luminaire	Beam angle γ (FWHM)		C 0 – 180 C 90 – 270		5° 24°
Luminaire with linear beam spread, rotatable with external ribbed glass spreader lens, continuously adjustable through 360° from outside the luminaire	Beam angle γ (FWHM)						
	C 0 – 180 C 90 – 270						
	5° 24°						
.5 . . .	Luminaire with neutral white colour temperature (4000 K)						
.1 . .	Dimmable luminaire (DALI)						

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 994 249 049	black	3.4 kg	6 x LED module RGBW W = 3000 K (max. 48 W)	max.	35°
8 994 269 049	white			1650 lm	
8 994 259 049	silver grey				

LED

Luminaires available in 2700 K and other colour temperatures upon request

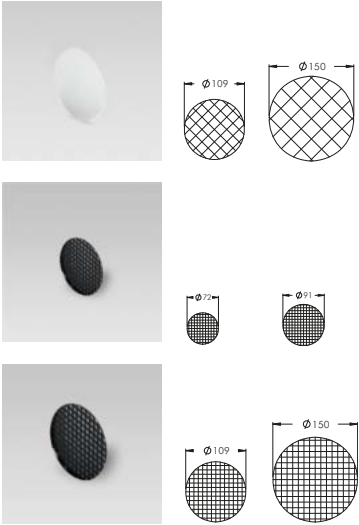


Accessories Monospot S internal, **factory fitted**

Monospot S3, S4				
Part number	Luminaire	Description	Beam angle γ (FWHM)	
			narrow beam	medium wide beam
129 0 734 000	Monospot S3	Prismatic glass,	18°	37°
129 0 735 000	Monospot S4	for diffused light distribution	19°	46°

Monospot S1, S2		
Part number	Luminaire	Description
129 0 831 000	Monospot S1	Honeycomb louvre, internal (factory fitted),
129 0 832 000	Monospot S2	to avoid glare

Monospot S3, S4		
Part number	Luminaire	Description
129 0 753 000	Monospot S3	Honeycomb louvre, internal (factory fitted),
129 0 754 000	Monospot S4	to avoid glare

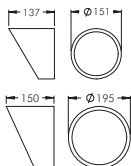


The internally fitted honeycomb louvre offers effective glare control and is protected from build up of dirt.

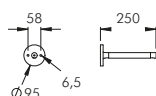


Accessories Monospot S external, **for retro-fitting**

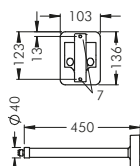

Monospot S1	Monospot S2		
Part number	Part number	Colour	Description
129 0 841 940	129 0 842 940	black	Cowl , stainless steel, to avoid lateral glare, for retro-fitting
129 0 841 960	129 0 842 960	white	
129 0 841 950	129 0 842 950	silver grey	



Monospot S3	Monospot S4		
Part number	Part number	Colour	Description
129 0 843 940	129 0 844 940	black	Cowl , stainless steel, to avoid lateral glare, for retro-fitting
129 0 843 960	129 0 844 960	white	
129 0 843 950	129 0 844 950	silver grey	

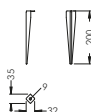

Monospot S1, S2

Part number	Colour	Description
129 0 500 940	black	Wall arm 250 mm , aluminium, polyester powder coated
129 0 500 960	white	
129 0 500 950	silver grey	

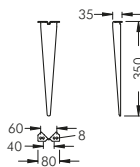

Monospot S3, S4

Part number	Colour	Description
128 0 901 940	black	Wall arm 450 mm* , aluminium, polyester powder coated
128 0 901 960	white	
128 0 901 950	silver grey	

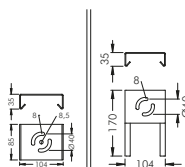
*available in different lengths upon request


Monospot S1, S2

Part number	Colour	Description
129 0 731 940	black	Stainless steel earth spike , for use in landscape lighting
129 0 731 960	white	
129 0 731 950	silver grey	

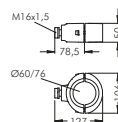

Monospot S3, S4

Part number	Colour	Description
129 0 736 940	black	Stainless steel earth spike , for use in landscape lighting
129 0 736 960	white	
129 0 736 950	silver grey	

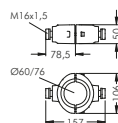

Monospot S1, S2 Monospot S3, S4

Part number	Part number	Description
120 0 620 940	120 0 622 940	Expandable tree strap with mounting plate , made of polyester fiber for trunk circumference 350 – 450 mm*, with polyester powder coated mounting plate

*different lengths available upon request


Monospot S3, S4 (with mounting bracket)

Part number	Colour	Description
129 0 790 940	black	Single pole mount clamp , aluminium, for poles Ø 60 mm
129 0 790 960	white	
129 0 790 950	silver grey	
129 0 792 940	black	Single pole mount clamp , aluminium, for poles Ø 76 mm
129 0 792 960	white	
129 0 792 950	silver grey	
129 0 791 940	black	Double pole mount clamp , aluminium, for poles Ø 60 mm
129 0 791 960	white	
129 0 791 950	silver grey	
129 0 793 940	black	Double pole mount clamp , aluminium, for poles Ø 76 mm
129 0 793 960	white	
129 0 793 950	silver grey	





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