

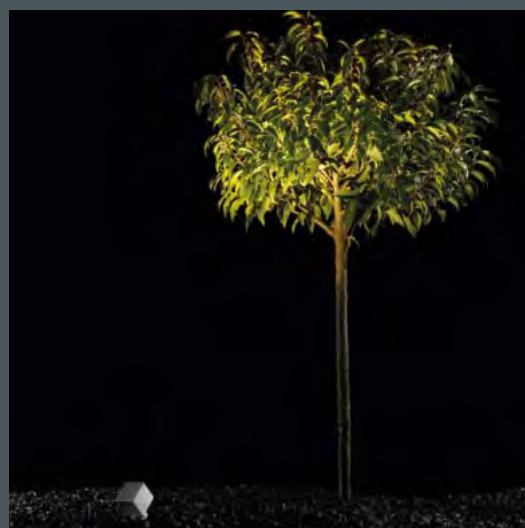


New Products 2018/2019



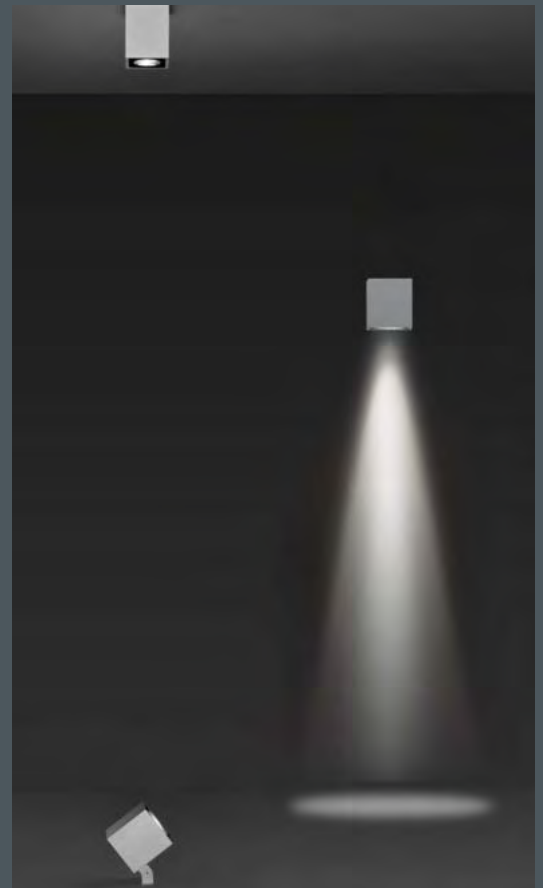
Nanocube is a new exterior luminaire series with minimalist design and compact dimensions. For this product range there is a choice of narrow beam, wide beam and asymmetrical light distributions. The luminaires can be integrated discreetly into the architectural environment and deliver high lumen output despite their miniature size. With integral LED drivers they can be directly connected to mains voltage power supply.

actual size



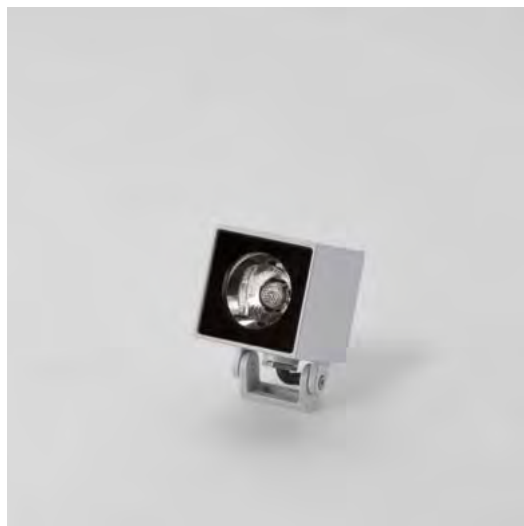
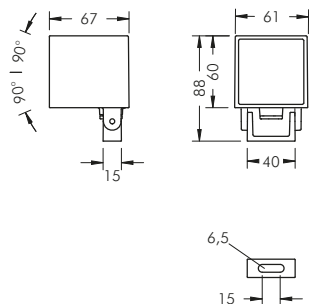
Nanocube brings miniaturization to the next level. The floodlights can be installed very discreetly.

In addition to floodlights for accent and landscape lighting there are versions for wall and ceiling mount applications.



For façade and sign illumination an unobtrusive wall arm is available as an accessory.



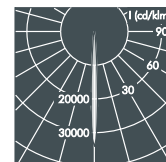
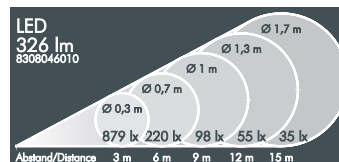


Nanocube with mounting bracket

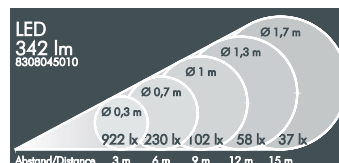
Equipped with 1 x 5 W high performance LED, integral temperature monitoring device, CRI: > 80, colour tolerance: 3 SDCM service life: L90/B10 > 50 000 h protection class I, IP65 IK07 corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated, highly efficient reflector, all exterior steel parts are stainless steel, tempered safety glass, silicon gasket, powder coated die cast aluminium mounting bracket:
 1 elongated holes \varnothing 6.5 mm, spacing 15 mm, tilt range 180°, M16 cable gland, with 0.8 m cable H05RN-F3G1, integral driver (AC/DC)

Nanocube, narrow beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 046 019	black	1 x LED module 5 W	326 lm	6°
8 308 066 019	white	warm white (3000 K)		
8 308 056 019	silver grey			

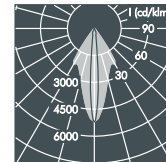
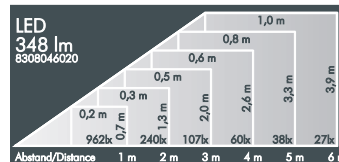


Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 045 019	black	1 x LED module 5 W	342 lm	6°
8 308 065 019	white	neutral white (4000 K)		
8 308 055 019	silver grey			



Nanocube, linear beam spread, vertical

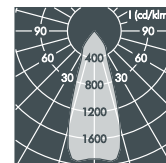
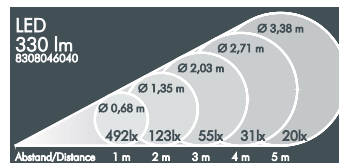
Part number*	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 046 029	black	1 x LED module 5 W	348 lm	C 0 - 180
8 308 066 029	white	warm white (3000 K)		C 90 - 270
8 308 056 029	silver grey			35° 7°



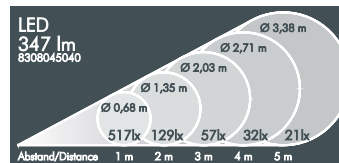
... .3. Luminaire with linear beam spread, horizontal

Nanocube, medium wide beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 046 049	black	1 x LED module 5 W	330 lm	37°
8 308 066 049	white	warm white (3000 K)		
8 308 056 049	silver grey			

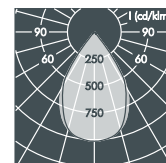
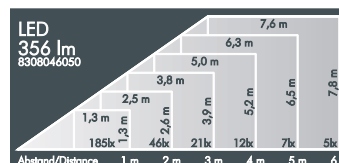


Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 045 049	black	1 x LED module 5 W	347 lm	37°
8 308 065 049	white	neutral white (4000 K)		
8 308 055 049	silver grey			



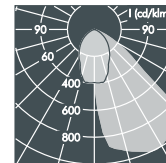
Nanocube, axially symmetrical wide beam

Part number*	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 046 059	black	1 x LED module 5 W	356 lm	C 0 - 180
8 308 066 059	white	warm white (3000 K)		C 90 - 270
8 308 056 059	silver grey			66° 64°



Nanocube, asymmetrical wide beam

Part number*	Colour	Light source	Luminous flux	Main beam angle γ
8 308 046 089	black	1 x LED module 5 W	236 lm	28°
8 308 066 089	white	warm white (3000 K)		
8 308 056 089	silver grey			

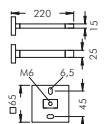


* The luminaires are available with neutral white LEDs (4000 K) upon request.

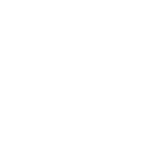
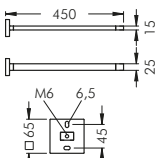
LED

Luminaires available in 2700 K and other colour temperatures on request





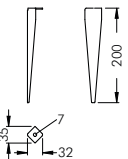
Accessories Nanocube		
Part number	Colour	Description
123 0 467 940	black	Wall arm 220 mm,
123 0 467 960	white	aluminium, polyester powder coated
123 0 467 950	silver grey	



Part number	Colour	Description
123 0 468 940	black	Wall arm 450 mm,
123 0 468 960	white	aluminium, polyester powder coated
123 0 468 950	silver grey	



Part number	Colour	Description
123 0 490 940	black	Cowl, stainless steel,
123 0 490 960	white	to avoid glare from 3 directions
123 0 490 950	silver grey	



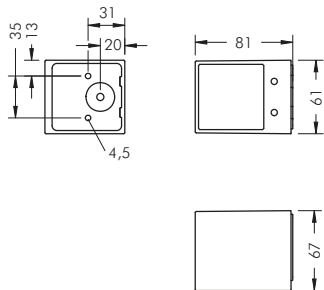
Part number	Colour	Description
123 0 470 940	black	Earth spike, stainless steel,
123 0 470 960	white	for use in landscaped areas
123 0 470 950	silver grey	



Part number	Colour	Description
123 0 510 941	black	Carrier frame,
123 0 510 961	white	with safety glass,
123 0 510 951	silver grey	for colour filters, lenses and plastic film



Part number	Description
238 1 222 000	Honeycomb louvre, internal (factory fitted, not for retro-fitting), to avoid glare

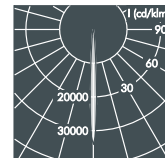
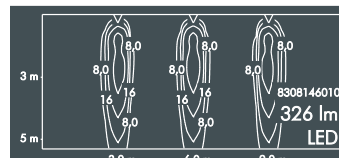


Nanocube wall luminaire

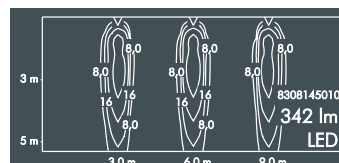
Equipped with 1 x 5 W high performance LED, integral temperature monitoring device, CRI: > 80, colour tolerance: max. 3 SDCM service life: L90/B10 > 50 000 h protection class I, IP65 , IK07 corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated, highly efficient reflector, all exterior steel parts are stainless steel, tempered safety glass, silicon gasket, closure with grub screw, mounting: 2 drilled holes \varnothing 4.5 mm, spacing 35 mm, cable entry for recessed cable \varnothing 7-10 mm, integral driver (AC/DC)

Nanocube wall luminaire, narrow beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 146 019	black	1 x LED module 5 W	326 lm	6°
8 308 166 019	white	warm white (3000 K)		
8 308 156 019	silver grey			

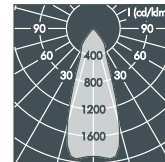
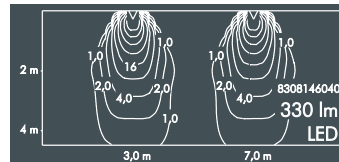


Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 145 019	black	1 x LED module 5 W	342 lm	6°
8 308 165 019	white	neutral white (4000 K)		
8 308 155 019	silver grey			

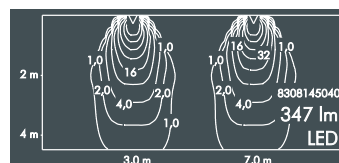


Nanocube wall luminaire, medium wide beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 146 049	black	1 x LED module 5 W	330 lm	37°
8 308 166 049	white	warm white (3000 K)		
8 308 156 049	silver grey			



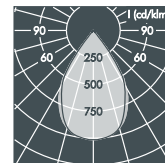
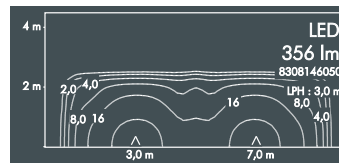
Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 145 049	black	1 x LED module 5 W	347 lm	37°
8 308 165 049	white	neutral white (4000 K)		
8 308 155 049	silver grey			



Nanocube wall luminaire, axially symmetrical wide beam

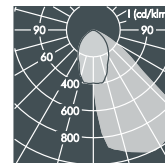
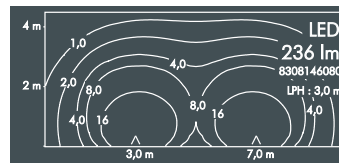
Part number*	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 146 059	black	1 x LED module 5 W	356 lm	C 0 - 180
8 308 166 059	white	warm white (3000 K)		C 90 - 270
8 308 156 059	silver grey			

* The luminaires are available with neutral white LEDs (4000 K) upon request.

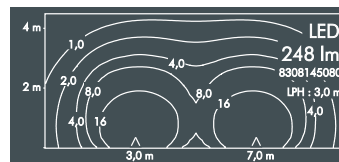


Nanocube wall luminaire, asymmetrical wide beam

Part number	Colour	Light source	Luminous flux	Main beam angle γ
8 308 146 089	black	1 x LED module 5 W	236 lm	28°
8 308 166 089	white	warm white (3000 K)		
8 308 156 089	silver grey			



Part number	Colour	Light source	Luminous flux	Main beam angle γ
8 308 145 089	black	1 x LED module 5 W	248 lm	28°
8 308 165 089	white	neutral white (4000 K)		
8 308 155 089	silver grey			



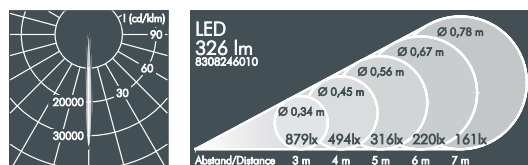
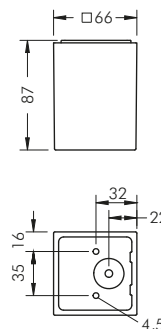
LED

Luminaires available in 2700 K and other colour temperatures on request



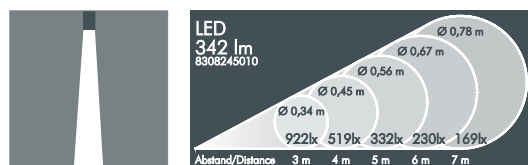
Nanocube ceiling luminaire

Equipped with 1 x 5 W high performance LED, integral temperature monitoring device, CRI: > 80, colour tolerance: max. 3 SDCM service life: L90/B10 > 50 000 h protection class I, IP65 \diamond \triangle \triangle , IK07 corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated, highly efficient reflector, all exterior steel parts are stainless steel, tempered safety glass, silicon gasket, closure with grub screw, mounting: 2 drilled holes \varnothing 4.5 mm, spacing 35 mm, cable entry for recessed cable \varnothing 7-10 mm, integral driver (AC/DC)

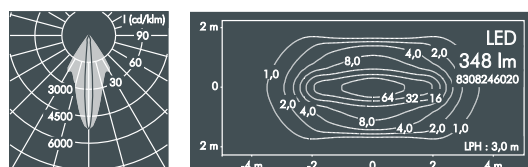


Nanocube ceiling luminaire, narrow beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 246 019	black	1 x LED module 5 W	326 lm	6°
8 308 266 019	white	warm white (3000 K)		
8 308 256 019	silver grey			



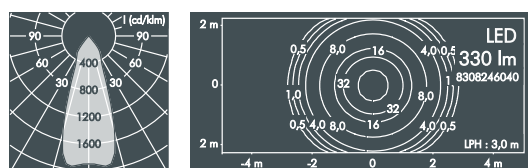
Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 245 019	black	1 x LED module 5 W	342 lm	6°
8 308 265 019	white	neutral white (4000 K)		
8 308 255 019	silver grey			



Nanocube ceiling luminaire, linear beam spread

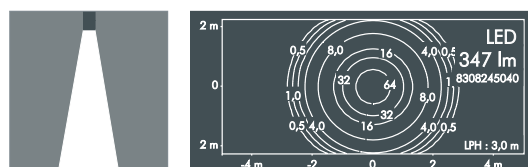
Part number*	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 246 029	black	1 x LED module 5 W	348 lm	C 0 – 180
8 308 266 029	white	warm white (3000 K)		35°
8 308 256 029	silver grey			7°

* The luminaires are available with neutral white LEDs (4000 K) upon request.

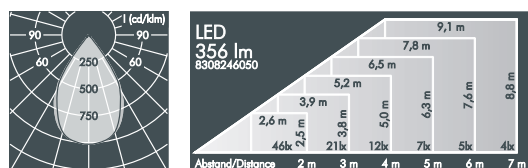


Nanocube ceiling luminaire, medium wide beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 246 049	black	1 x LED module 5 W	330 lm	37°
8 308 266 049	white	warm white (3000 K)		
8 308 256 049	silver grey			

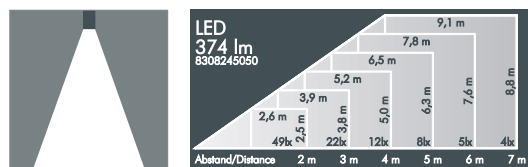


Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 245 049	black	1 x LED module 5 W	347 lm	37°
8 308 265 049	white	neutral white (4000 K)		
8 308 255 049	silver grey			



Nanocube ceiling luminaire, axially symmetrical wide beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 246 059	black	1 x LED module 5 W	356 lm	C 0 – 180
8 308 266 059	white	warm white (3000 K)		66°
8 308 256 059	silver grey			64°



Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 308 245 059	black	1 x LED module 5 W	374 lm	C 0 – 180
8 308 265 059	white	neutral white (4000 K)		66°
8 308 255 059	silver grey			64°

LED

Luminaires available in 2700 K and other colour temperatures on request







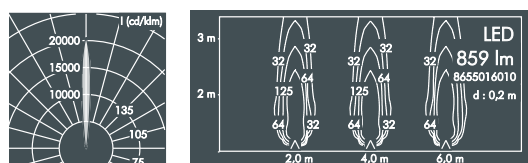
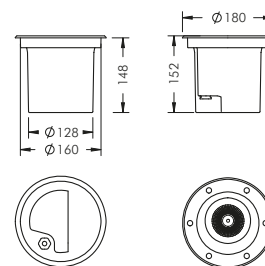


Uplight 180 complements the existing range of in-ground uplighters with a product of very compact dimensions. It offers all the relevant product advantages: precise light distribution, optimal glare control, adjustable optics, shallow depth. This unique combination of technical advantages is made possible by a well-thought-out product design, right down to the last detail.



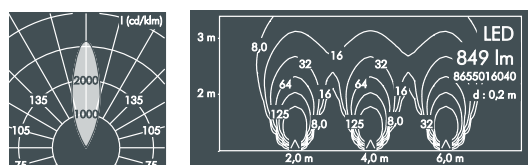
Uplight 180 adjustable optics

With a 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, IP68 (1.5 m)    , IK10
 corrosion-resistant die cast aluminium housing AlSi12, double powder coated,
 high gloss aluminium reflector, tilt range 0-15°, lockable, all exterior steel parts are stainless steel, tempered safety glass, for loads up to max. 5000 kg (according to DIN EN 60598-2-13), silicon gasket, V4A stainless steel trim ring and closure with 6 screws (V4A), M20 cable gland, with 0.8 m cable H07RN-F3G1, integral driver (AC/DC)



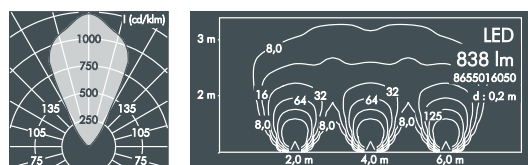
Uplight 180, adjustable optics, narrow beam

Part number	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 655 016 019	1 x LED module 11 W warm white (3000 K)	859 lm	0 – 15°	8°



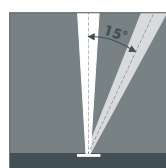
Uplight 180, adjustable optics, medium wide beam

Part number	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 655 016 049	1 x LED module 11 W warm white (3000 K)	849 lm	0 – 15°	31°



Uplight 180, adjustable optics, wide beam

Part number	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)
8 655 016 059	1 x LED module 11 W warm white (3000 K)	838 lm	0 – 15°	55°



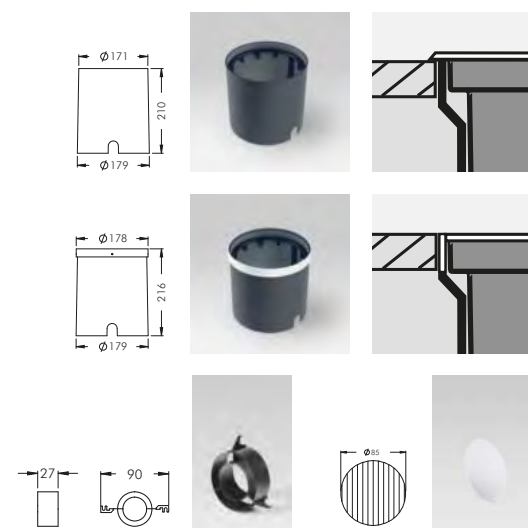
Part number	Description
... .. 5 ...	Luminaire with neutral white colour temperature (4000 K)
8 656	Luminaire for installation flush with surrounding surface (in combination with installation sleeve 126 0 371 060)

Accessories Uplight 180

Part number	Description
126 0 371 000	Installation sleeve , polypropylene, for luminaire with overlapping trim (for luminaires 8 655 9)

Part number	Description
126 0 371 060	Installation sleeve , polypropylene, for luminaire with trim for flush mounting (for luminaires 8 656 9)

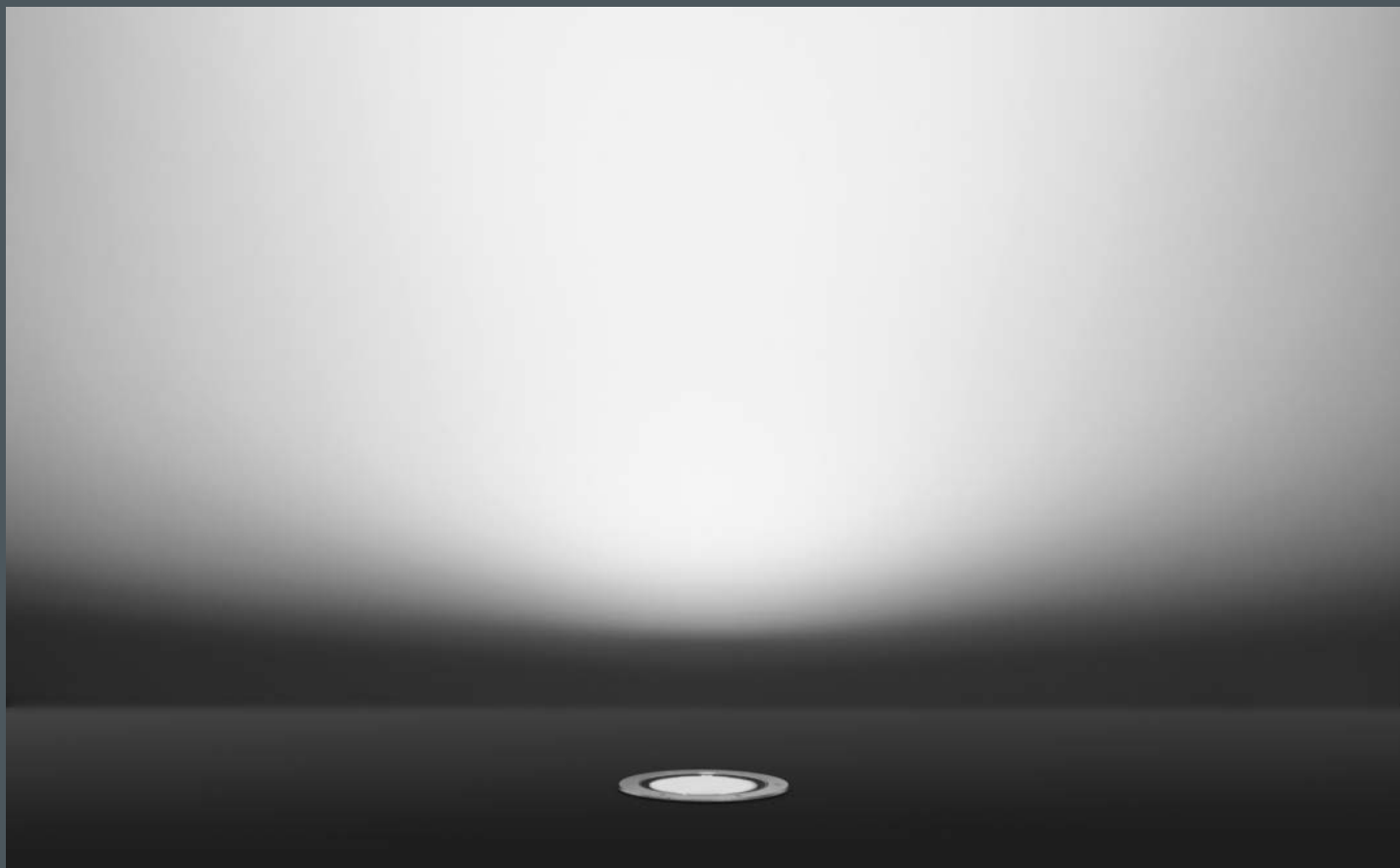
Part number	Description
126 0 372 940	Radial louvre to reduce lateral glare
126 0 340 000	Ribbed glass for linear beam control, continuously adjustable through 360°



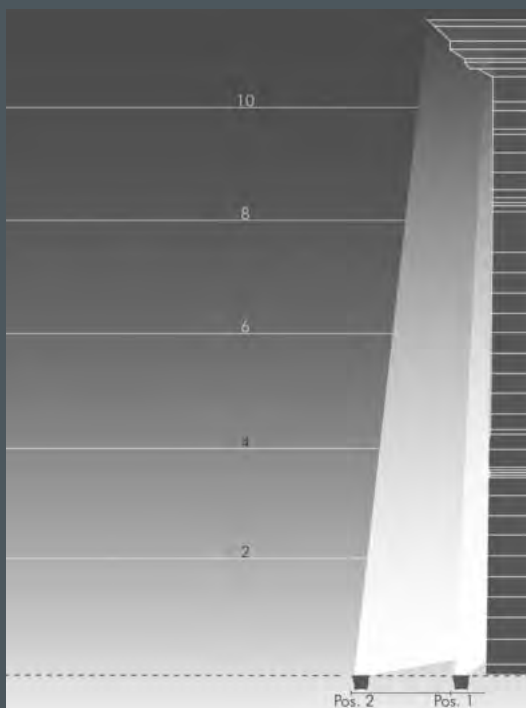
LED

Luminaires available in 2700 K or other colour temperatures on request





The Uplight product range is now available with innovative wall washer optics. They create uniform illumination from the bottom to the top of the façade. Thanks to adjustable optics the beam orientation can be adapted to different distances and wall sizes. The shallow recess depth makes an easy installation possible.




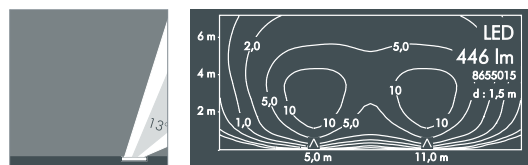
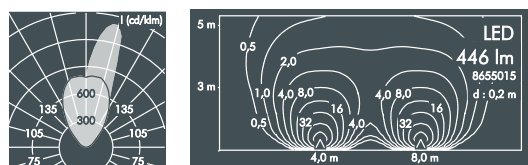
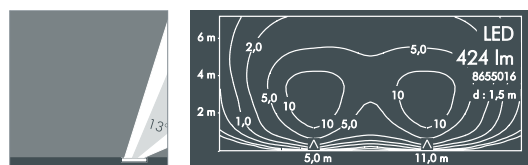
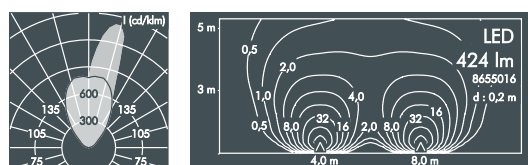
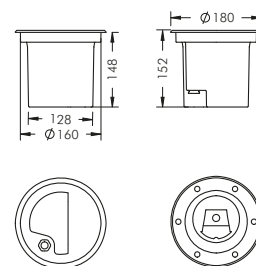
The adjustable optics allow for ideal beam orientation from a given luminaire position –
from a short distance to the façade (Pos. 1, min. 0.2 m)
and from a longer range (Pos. 2, max. 2.0 m).

Denekamp, Netherlands
Lighting design: Studio DL, Hildesheim

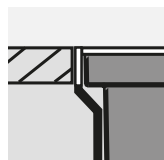
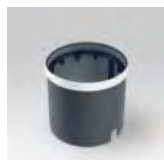
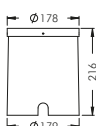
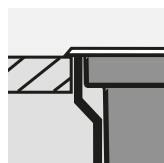
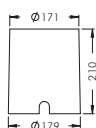


Uplight 180 adjustable optics, wall washer

With a 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, IP68 (1.5 m) , IK10 corrosion-resistant die cast aluminium housing AlSi12, double polyester powder coated, highly efficient aluminium reflector, wall washer lens with optical structure, adjustable glare shield, tilt range 0-13°, lockable, all exterior steel parts are stainless steel, tempered safety glass flush with frame, for loads up to max. 5000 kg (according to IEC/EN 60598-2-13), silicon gasket, V4A stainless steel trim ring and closure with 6 screws (V4A), M20 cable gland, with 0.8 m cable H07RN-F3G1, integral driver (AC/DC)



The adjustable glare shield reduces spill light and light pollution.



LED

Luminaires available in 2700 K or other colour temperatures on request



Uplight 180, adjustable optics, wall washer

Part number	light source	Luminous flux	Tilt range	Beam angle γ (FWHM)	
8 655 016 009	1 x LED module 11 W warm white (3000 K)	424 lm	0 – 13°	C 0 – 180	C 90 – 270

Part number	light source	Luminous flux	Tilt range	Beam angle γ (FWHM)	
8 655 015 009	1 x LED module 11 W neutral white (4000 K)	446 lm	0 – 13°	C 0 – 180	C 90 – 270

Part number	Description
... 1 ...	Luminaire with slip resistant glass* (R13 according to DIN EN 51130)

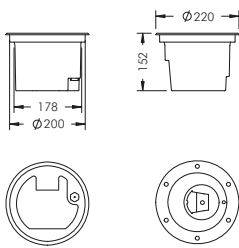
*The light distribution becomes more diffuse.

Part number	Description
8 656 ...	Luminaire for installation flush with surrounding surface (in combination with installation sleeve 126 0 371 060)


Accessories Uplight 180

Part number	Description
126 0 371 000	Installation sleeve , polypropylene, for luminaire with overlapping trim (for luminaires 8 655 ... 9)

Part number	Description
126 0 371 060	Installation sleeve , polypropylene, for luminaire with trim for flush mounting (for luminaires 8 656 ... 9)

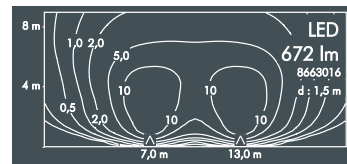
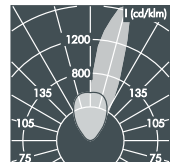
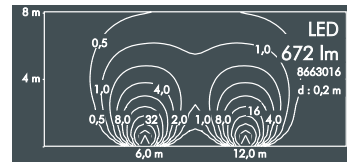


Uplight 220 adjustable optics, wall washer

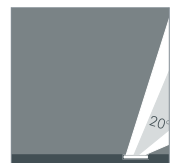
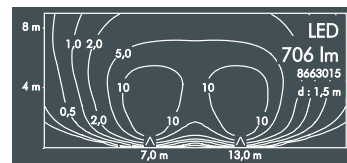
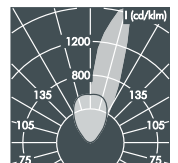
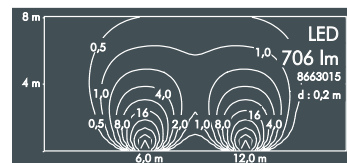
With a high performance LED module (Zhaga), integral temperature monitoring device, CRI: > 80, colour tolerance: 2 SDCM service life: L90/B10 > 50 000 h Protection class I, IP68 (1.5 m) , IK10 corrosion-resistant die cast aluminium housing AlSi12, double polyester powder coated, highly efficient aluminium reflector, wall washer lens with optical structure, adjustable glare shield, tilt range 0-20°, lockable, with Heatslide mechanism for optimal heat dissipation, all exterior steel parts are stainless steel, tempered safety glass flush with frame, for loads up to max. 5000 kg (according to IEC/EN 60598-2-13), silicon gasket, V4A stainless steel trim ring and closure with 6 screws (V4A), M20 cable gland, with 0.8 m cable H07RN-F3G1, integral driver (AC)

Uplight 220, adjustable optics, wall washer

Part number	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)	
8 663 016 009	1 x LED module 19 W warm white (3000 K)	672 lm	0 – 20°	C 0 – 180	C 90 – 270



Part number	Light source	Luminous flux	Tilt range	Beam angle γ (FWHM)	
8 663 015 009	1 x LED module 19 W neutral white (4000 K)	706 lm	0 – 20°	C 0 – 180	C 90 – 270



Part number	Description
... 1... ..	Luminaire with slip resistant glass* (R13 according to DIN EN 51130)
... .. 1..	Dimmable luminaire (DALI)
... .. 2..	Dimmable luminaire (1-10 V)
8 664	Luminaire for installation flush with surrounding surface (in combination with installation sleeve 126 0 338 060)

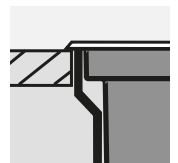
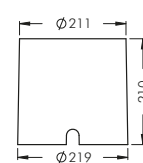
*The light distribution becomes more diffuse.



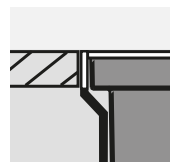
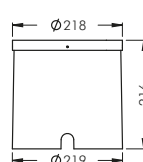
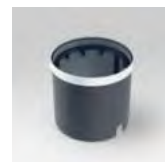
The adjustable glare shield reduces spill light and light pollution.

Accessories Uplight 220

Part number	Description
126 0 338 000	Installation sleeve , polypropylene, for luminaire with overlapping trim (for luminaires 8 663 9)



Part number	Description
126 0 338 060	Installation sleeve , polypropylene, for luminaire with trim for flush mounting (for luminaires 8 664 9)




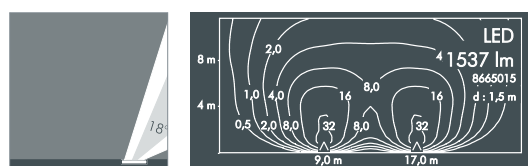
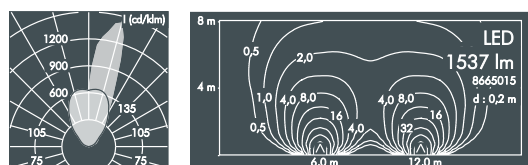
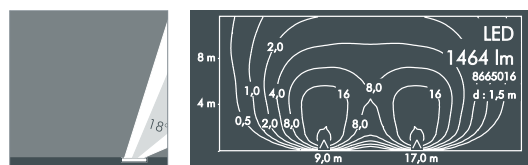
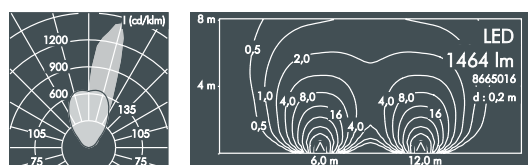
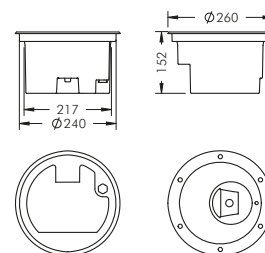
LED

Luminaires available in 2700 K and other colour temperatures on request



Uplight 260 adjustable optics, wall washer

With a high performance LED module (Zhaga), integral temperature monitoring device, CRI: > 80, colour tolerance: 2 SDCM service life: L90/B10 > 50 000 h Protection class I, IP68 (1.5 m) , IK10 corrosion-resistant die cast aluminium housing AlSi12, double polyester powder coated, highly efficient aluminium reflector, wall washer lens with optical structure, adjustable glare shield, tilt range 0-18°, lockable, with Heatslide mechanism for optimal heat dissipation, all exterior steel parts are stainless steel, tempered safety glass flush with frame, for loads up to max. 4500 kg (according to IEC/EN 60598-2-13), silicon gasket, V4A stainless steel trim ring and closure with 6 screws (V4A), M20 cable gland, with 0.8 m cable H07RN-F3G1, integral driver (AC)



Uplight 260, adjustable optics, wall washer

Part number	light source	Luminous flux	Tilt range	Beam angle γ (FWHM)	
				C 0 – 180	C 90 – 270
8 665 016 009	1 x LED module 37 W warm white (3000 K)	1464 lm	0 – 18°	20°	78°

Part number	light source	Luminous flux	Tilt range	Beam angle γ (FWHM)	
				C 0 – 180	C 90 – 270
8 665 015 009	1 x LED module 37 W neutral white (4000 K)	1537 lm	0 – 18°	20°	78°

The adjustable glare shield reduces spill light and light pollution.



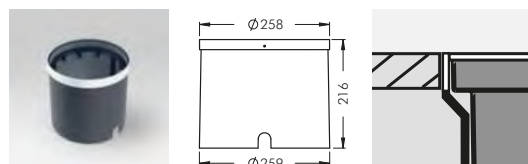
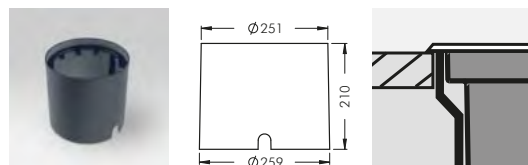
Part number	Description
... 1 ...	Luminaire with slip resistant glass* (R13 according to DIN EN 51 130)
... 1 ..	Dimmable luminaire (DALI)
... 2 ..	Dimmable luminaire (1-10 V)
8 666 ...	Luminaire for installation flush with surrounding surface (in combination with installation sleeve 126 0 341 060)

*The light distribution becomes more diffuse.

Accessories Uplight 260

Part number	Description
126 0 341 000	Installation sleeve , polypropylene, for luminaire with overlapping trim (for luminaires 8 665 9)

Part number	Description
126 0 341 060	Installation sleeve , polypropylene, for luminaire with trim for flush mounting (for luminaires 8 666 9)



LED

Luminaires available in 2700 K and other colour temperatures on request

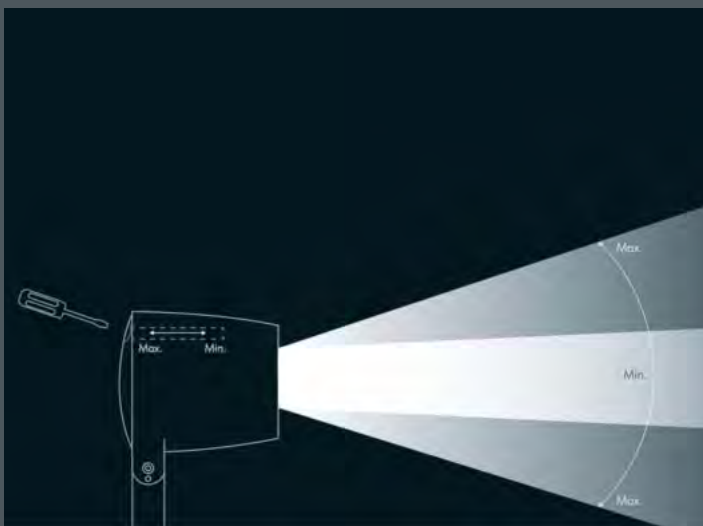




Monospot is a new floodlight series with innovative technology and design. It comes in 4 sizes with varying wattages. Since the LED modules are located deep inside the reflectors, the luminaires have good cut-off and excellent glare control.

In addition to a wide range of fixed light distributions, there is also the Vario Optic version which allows the light beam to be adjusted to suit the specific lighting task.

The housings are free of joins and ridges, in or on which dirt and dust can collect. The puristic design and the compact dimensions allow these products to be integrated discreetly into any architectural surrounding.



The Vario Optic makes it possible to adjust the beam angle. This is done from outside the luminaire so that the optimal beam angle can be achieved while the floodlight is switched on. This function offers a high degree of flexibility, for example in landscape lighting.



For the Monospot series there is a gobo projector available with precise optics for sharpe-edged image projections.

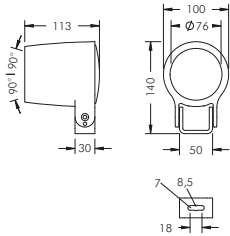
The optical system can accommodate gobos and colour filters simultaneously. With the help of a framer, the edges of the image can be defined and adapted to the size of the projection surface. The Monospot series thus offers many possibilities for imaginative illumination.



Monospot pole luminaires are equipped with a tilt-and-turn fixing system.

A wide range of reflectors make it possible to create different lighting scenarios. The street optic produces a bat-wing type distribution for illuminating paths and driveways.



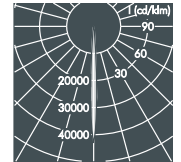
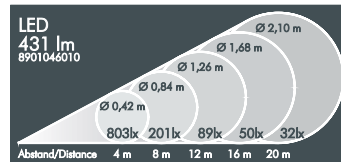


Monospot 1 with mounting bracket

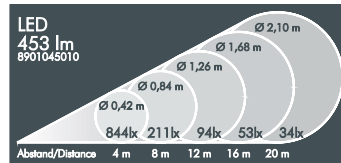
With a high performance LED module (Zhaga), integral temperature monitoring device, CRI: > 80, Colour tolerance: max. 3 SDCM Service life: L90/B10 > 50 000 h protection class I, IP67 , IK08 windage area AW 0.012 m² corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated, all exterior 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 1, narrow beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 901 046 019	black	1 x LED module 6 W	431 lm	6°
8 901 066 019	white	warm white (3000 K)		
8 901 056 019	silver grey			

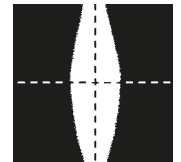
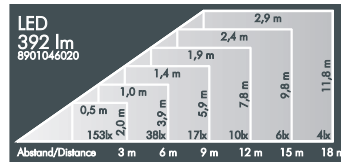


Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 901 045 019	black	1 x LED module 6 W	453 lm	6°
8 901 065 019	white	neutral white (4000 K)		
8 901 055 019	silver grey			



Monospot 1, linear beam spread, vertical

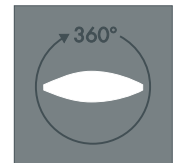
Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
8 901 046 029	black	1 x LED module 6 W	392 lm	C 0 – 180	C 90 – 270
8 901 066 029	white	warm white (3000 K)		34°	7°
8 901 056 029	silver grey				



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

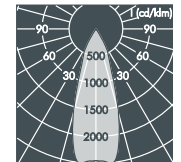
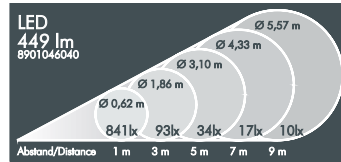
Monospot 1, linear beam spread, rotatable

Part number	Colour	Description	Luminous flux	Beam angle γ (FWHM)	
8 901 046 079	black	Luminaire with external ribbed glass spreader lens, continuously adjustable through 360° from outside the luminaire	353 lm	C 0 – 180	C 90 – 270
8 901 066 079	white			34°	7°
8 901 056 079	silver grey				



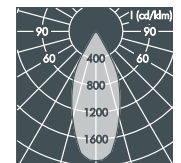
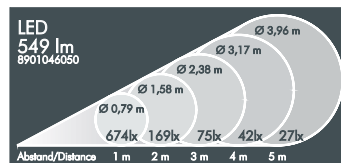
Monospot 1, medium wide beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 901 046 049	black	1 x LED module 6 W	449 lm	34°
8 901 066 049	white	warm white (3000 K)		
8 901 056 049	silver grey			

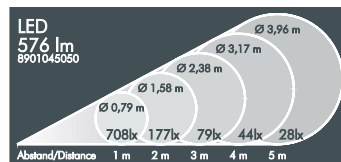


Monospot 1, wide beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 901 046 059	black	1 x LED module 6 W	549 lm	44°
8 901 066 059	white	warm white (3000 K)		
8 901 056 059	silver grey			



Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 901 045 059	black	1 x LED module 6 W	576 lm	44°
8 901 065 059	white	neutral white (4000 K)		
8 901 055 059	silver grey			








... .5 ... Luminaire with neutral white colour temperature (4000 K)

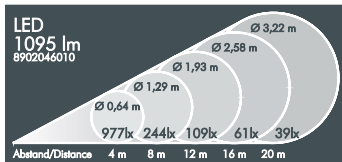
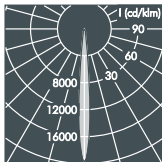
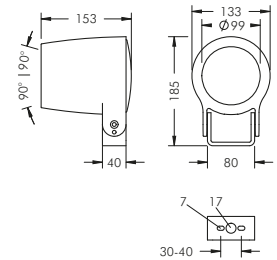
LED

Luminaires available in 2700 K or other colour temperatures on request



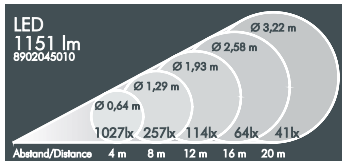
Monospot 2 with mounting bracket

With a high performance LED module (Zhaga),
integral temperature monitoring device,
CRI: > 80, Colour tolerance: max. 3 SDCM
Service life: L90/B10 > 50 000 h
protection class I, IP67     , 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 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)

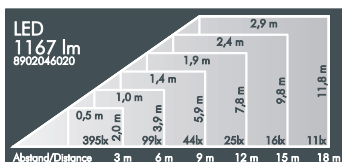
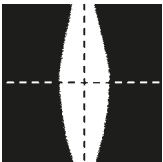


Monospot 2, narrow beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 902 046 019	black	1 x LED module 15 W	1095 lm	8°
8 902 066 019	white	warm white (3000 K)		
8 902 056 019	silver grey			



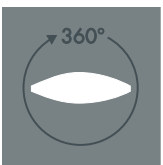
Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 902 045 019	black	1 x LED module 15 W	1151 lm	8°
8 902 065 019	white	neutral white (4000 K)		
8 902 055 019	silver grey			



Monospot 2, linear beam spread, vertical

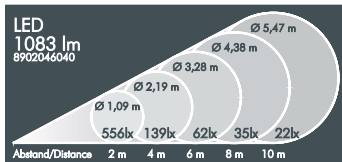
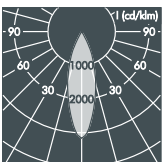
Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 902 046 029	black	1 x LED module 15 W	1167 lm	C 0 – 180
8 902 066 029	white	warm white (3000 K)		C 90 – 270
8 902 056 029	silver grey			35°

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



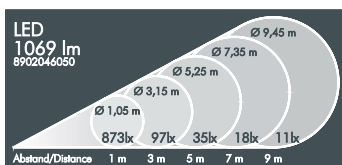
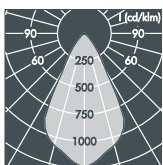
Monospot 2, linear beam spread, rotatable

Part number	Colour	Description	Luminous flux	Beam angle γ (FWHM)
8 901 046 079	black	Luminaire with external ribbed glass spreader lens, continuously adjustable through 360° from outside the luminaire	1008 lm	C 0 – 180
8 901 066 079	white			C 90 – 270
8 901 056 079	silver grey			35°



Monospot 2, medium wide beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 902 046 049	black	1 x LED module 15 W	1083 lm	31°
8 902 066 049	white	warm white (3000 K)		
8 902 056 049	silver grey			



Monospot 2, wide beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 902 046 059	black	1 x LED module 15 W	1069 lm	55°
8 902 066 059	white	warm white (3000 K)		
8 902 056 059	silver grey			

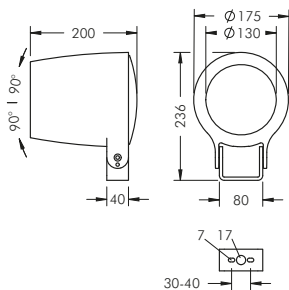


Part number	Description
... .5 ...	Luminaire with neutral white colour temperature (4000 K)
... .1 ..	Dimmable luminaire (DALI)
... .2 ..	Dimmable luminaire (1-10 V)

LED

Luminaires available in 2700 K or other colour temperatures on request



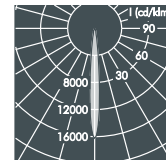
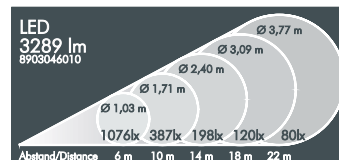


Monospot 3 with mounting bracket

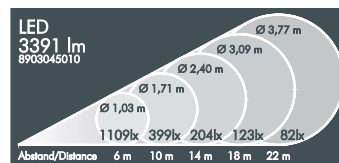
With a high performance LED module (Zhaga), integral temperature monitoring device, CRI: > 80, Colour tolerance: 2 SDCM
 Service life: L90/B10 > 50 000 h
 protection class I, IP67 , IK08
 windage area AW 0.034 m²
 corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated,
 all exterior steel parts are stainless steel, tempered safety glass, silicon gasket,
 closure with 3 stainless steel screws, mounting bracket: 2 drilled holes \varnothing 7 mm,
 spacing 30 – 40 mm, 1 centre hole \varnothing 17 mm, tilt range 180°, M20 cable gland,
 integral driver (AC/DC)

Monospot 3, narrow beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 903 046 019	black	1 x LED module 36 W	3289 lm	9°
8 903 066 019	white	warm white (3000 K)		
8 903 056 019	silver grey			

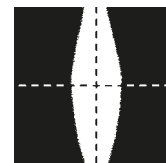
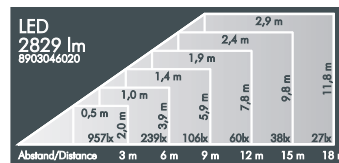


Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 903 045 019	black	1 x LED module 36 W	3391 lm	9°
8 903 065 019	white	neutral white (4000 K)		
8 903 055 019	silver grey			



Monospot 3, linear beam spread, vertical

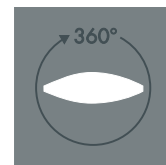
Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 903 046 029	black	1 x LED module 36 W	2829 lm	C 0 – 180 C 90 – 270
8 903 066 029	white	warm white (3000 K)		36° 9°
8 903 056 029	silver grey			



. 3. Luminaire with linear beam spread, horizontal

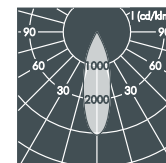
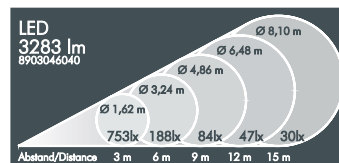
Monospot 3, linear beam spread, rotatable

Part number	Colour	Description	Luminous flux	Beam angle γ (FWHM)
8 903 046 079	black	Luminaire with external ribbed glass spreader lens, continuously adjustable through 360° from outside the luminaire	2603 lm	C 0 – 180 C 90 – 270
8 903 066 079	white			36° 9°
8 903 056 079	silver grey			



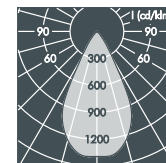
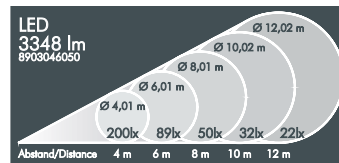
Monospot 3, medium wide beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 903 046 049	black	1 x LED module 36 W	3283 lm	30°
8 903 066 049	white	warm white (3000 K)		
8 903 056 049	silver grey			



Monospot 3, wide beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 903 046 059	black	1 x LED module 36 W	3348 lm	53°
8 903 066 059	white	warm white (3000 K)		
8 903 056 059	silver grey			



Part number	Description
. 5 . . .	Luminaire with neutral white colour temperature (4000 K)
. 1 . .	Dimmable luminaire (DALI)
. 2 . .	Dimmable luminaire (1-10 V)






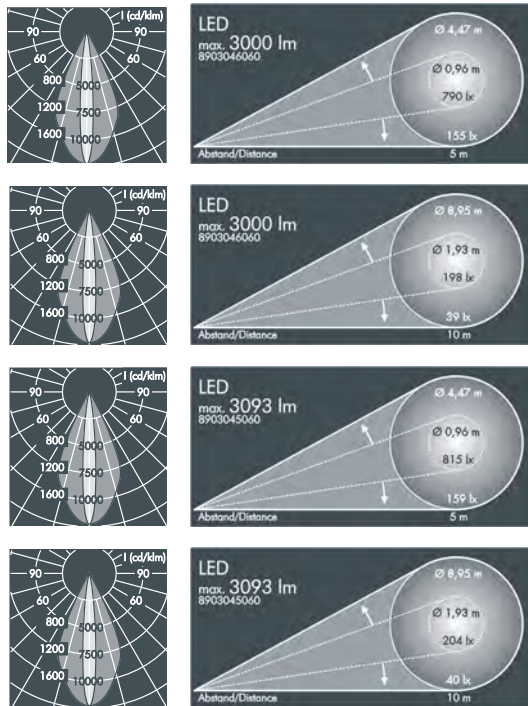
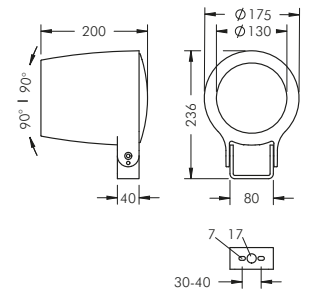
LED

Luminaires available in 2700 K or other colour temperatures on request



Monospot 3 Vario Optic with mounting bracket

With a high performance LED module (Zhaga), integral temperature monitoring device, CRI: > 80, Colour tolerance: 2 SDCM
 Service life: L80/B20 > 50 000 h
 protection class I, IP67   , IK08
 windage area AW 0.034 m²
 corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated,
 high transmission glass optical lens,
 beam angle adjustable from outside the luminaire,
 all exterior steel parts are stainless steel,
 tempered safety glass, silicon gasket,
 closure with 3 stainless steel screws,
 mounting bracket: 2 drilled holes \varnothing 7 mm, spacing 30 – 40 mm, 1 centre hole \varnothing 17 mm,
 tilt range 180°, M20 cable gland,
 integral driver (AC/DC)



Monospot 3 Vario Optic

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 903 046 069	black	1 x LED module 36 W	max. 3000 lm	11°–48°
8 903 066 069	white	warm white (3000 K)		
8 903 056 069	silver grey			

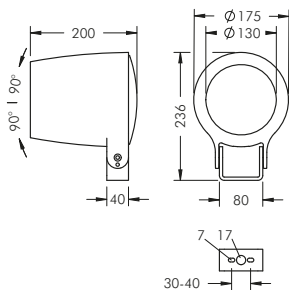
Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 903 045 069	black	1 x LED module 36 W	max. 3093 lm	11°–48°
8 903 065 069	white	neutral white (4000 K)		
8 903 055 069	silver grey			

Part number	Description
... 1 ..	Dimmable luminaire (DALI)
... 2 ..	Dimmable luminaire (1-10 V)

LED

Luminaires available in 2700 K or other colour temperatures on request





Monospot 3 with mounting bracket asymmetrical beam

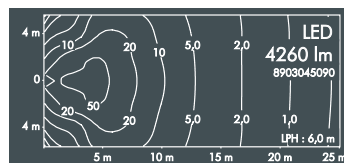
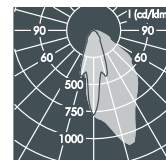
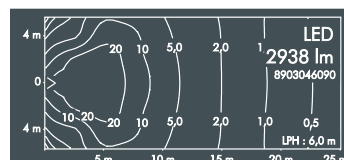
With a high performance LED module (Zhaga), integral temperature monitoring device, CRI: > 80, Colour tolerance: 2 SDCM
 Service life: L90/B10 > 50 000 h
 protection class I, IP67 , IK08
 windage area AW 0.034 m²
 corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated,
 all exterior steel parts are stainless steel, tempered safety glass, silicon gasket,
 closure with 3 stainless steel screws, mounting bracket: 2 drilled holes \varnothing 7 mm,
 spacing 30 – 40 mm, 1 centre hole \varnothing 17 mm, tilt range 180°, M20 cable gland,
 integral driver (AC/DC)

Monospot 3, asymmetrical beam

Part number	Colour	Light source	Luminous flux	Main beam angle γ
8 903 046 099	black	1 x LED module 36 W	2938 lm	18°
8 903 066 099	white	warm white (3000 K)		
8 903 056 099	silver grey			

Part number	Colour	Light source	Luminous flux	Main beam angle γ
8 903 045 099	black	1 x LED module 36 W	4260 lm	18°
8 903 065 099	white	neutral white (4000 K)		
8 903 055 099	silver grey			

Part number	Description
. 5 . . .	Luminaire with neutral white colour temperature (4000 K)
. 1 . .	Dimmable luminaire (DALI)
. 2 . .	Dimmable luminaire (1-10 V)




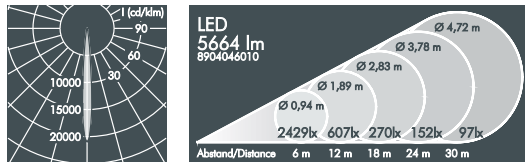
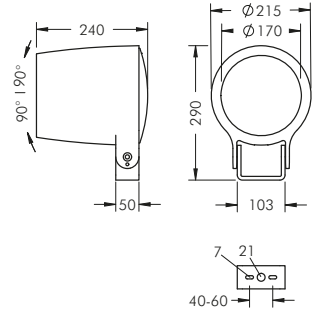
LED

Luminaires available in 2700 K or other colour temperatures on request



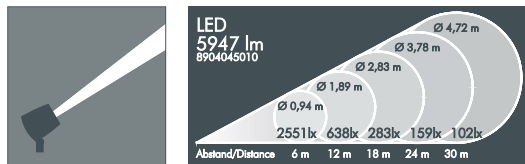
Monospot 4 with mounting bracket

With a high performance LED module (Zhaga), integral temperature monitoring device, CRI: > 80, Colour tolerance: 2 SDCM
 Service life: L90/B10 > 50 000 h
 protection class I, IP67 , IK08
 windage area AW 0.051 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 3 stainless steel screws,
 mounting bracket: 2 drilled holes Ø 7 mm, spacing 40 – 60 mm, 1 centre hole Ø 21 mm,
 tilt range 180°, M20 cable gland,
 integral driver (AC/DC)

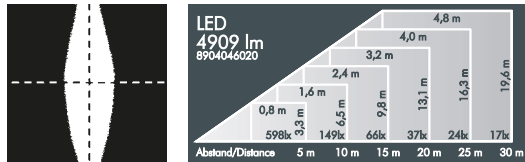


Monospot 4, narrow beam


Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 904 046 019	black	1 x LED module 70 W	5664 lm	9°
8 904 066 019	white	warm white (3000 K)		
8 904 056 019	silver grey			

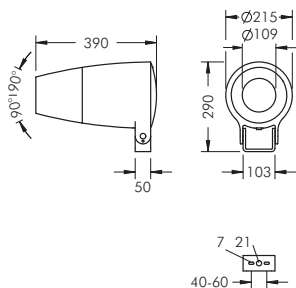


Artikelnummer	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 904 045 019	black	1 x LED module 70 W	5947 lm	9°
8 904 065 019	white	neutral white (4000 K)		
8 904 055 019	silver grey			



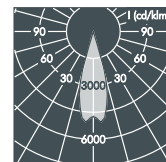
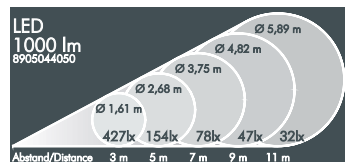
Monospot Gobo

With 1 x high performance LED module, CRI: > 70, colour tolerance: max. 4 SDCM service life: L70/B20 > 50 000 h protection class I, IP65 , IK08 windage area AW 0.074 m², corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated, focusable lens, carrier for gobos and colour filters, 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 40 – 60 mm, 1 centre hole Ø 21 mm, tilt range 180°, M20 cable gland, integral driver (AC/DC)



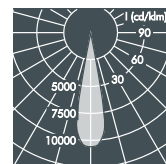
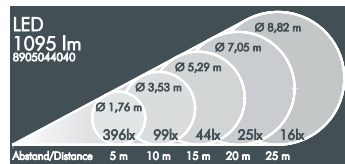
Monospot Gobo, 63 mm focal length

Part number	Colour	Light source	Luminous flux	Beam angle
8 905 044 059	black	1 x LED module 47 W	1000 lm	30°
8 905 064 059	white	cool white (6500 K)		
8 905 054 059	silver grey			



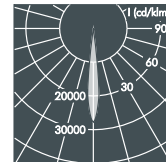
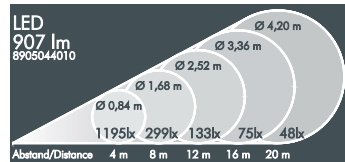
Monospot Gobo, 85 mm focal length

Part number	Colour	Light source	Luminous flux	Beam angle
8 905 044 049	black	1 x LED module 47 W	1095 lm	20°
8 905 064 049	white	cool white (6500 K)		
8 905 054 049	silver grey			



Monospot Gobo, 150 mm focal length

Part number	Colour	Light source	Luminous flux	Beam angle
8 905 044 019	black	1 x LED module 47 W	907 lm	12°
8 905 064 019	white	cool white (6500 K)		
8 905 054 019	silver grey			



Part number	Description
. 1..	Dimmable version (DALI)
. 2..	Dimmable version (1-10 V)

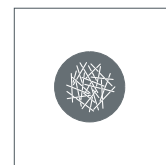
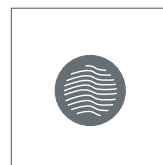
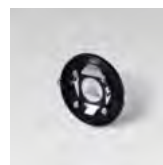
Accessories Monospot Gobo

Part number	Colour	Description
129 0 551 000	yellow	Dichroic colour filter
129 0 557 000	red	
129 0 553 000	blue	
129 0 558 000	green	

Part number	Description
129 0 257 000	Framer for sharp edges on 3- or 4-sided images

Part number	Example	Description
129 0 489 000	waves	Standard gobos Ø 50 mm
129 0 490 000	stars	
129 0 491 000	hash	




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 (outer diameter gobo 50 mm)

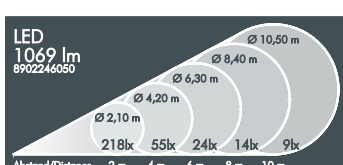
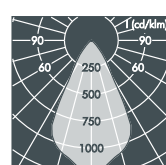
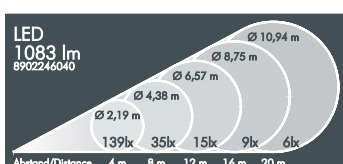
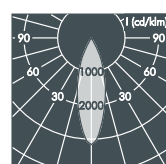
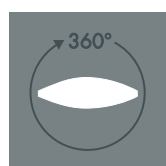
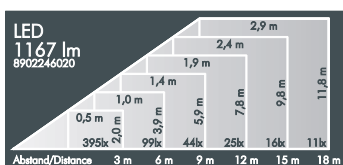
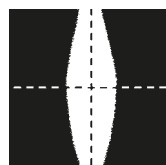
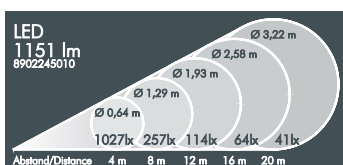
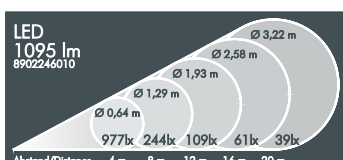
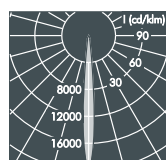
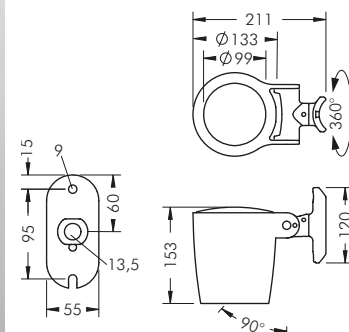


LED



Monospot 2 pole luminaire

With a high performance LED module (Zhaga), integral temperature monitoring device, CRI: > 80, Colour tolerance: max. 3 SDCM
 Service life: L90/B10 > 50 000 h
 protection class I, IP67   , 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 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 95 mm,
 1 centre hole Ø 13.5 mm, tilt range 90°, swivel range 360°, M16 cable gland,
 integral driver (AC/DC)



LED

Luminaires available in 2700 K or other colour temperatures on request



Monospot 2 pole luminaire, narrow beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 902 246 019	black	1 x LED module 15 W	1095 lm	8°
8 902 266 019	white	warm white (3000 K)		
8 902 256 019	silver grey			

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 902 245 019	black	1 x LED module 15 W	1151 lm	8°
8 902 265 019	white	neutral white (4000 K)		
8 902 255 019	silver grey			

Monospot 2 pole luminaire, linear beam spread, vertical

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 902 246 029	black	1 x LED module 15 W	1167 lm	C 0 - 180
8 902 266 029	white	warm white (3000 K)		C 90 - 270
8 902 256 029	silver grey			35°

.3. Luminaire with linear beam spread, horizontal

Monospot 2 pole luminaire, linear beam spread, rotatable

Part number	Colour	Description	Luminous flux	Beam angle γ (FWHM)
8 902 246 079	black	Luminaire with external ribbed glass spreader lens, continuously adjustable through 360° from outside the luminaire	1008 lm	C 0 - 180
8 902 266 079	white			
8 902 256 079	silver grey			

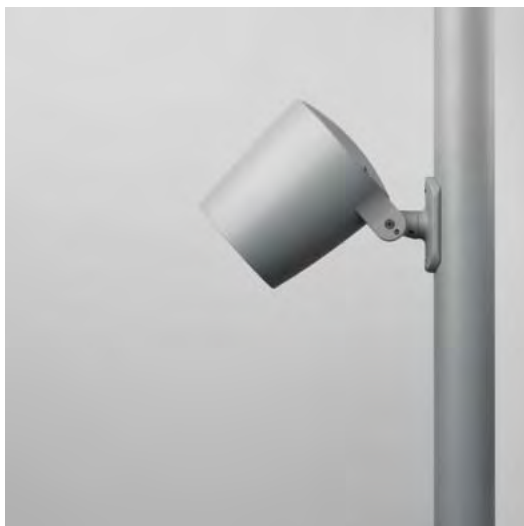
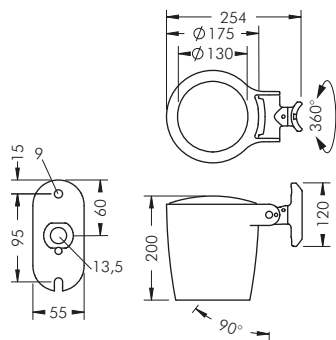
Monospot 2 pole luminaire, medium wide beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 902 246 049	black	1 x LED module 15 W	1083 lm	31°
8 902 266 049	white	warm white (3000 K)		
8 902 256 049	silver grey			

Monospot 2 pole luminaire, wide beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 902 246 059	black	1 x LED module 15 W	1069 lm	55°
8 902 266 059	white	warm white (3000 K)		
8 902 256 059	silver grey			

Part number	Description
.5 . . .	Luminaire with neutral white colour temperature (4000 K)
.1 . .	Dimmable luminaire (DALI)
.2 . .	Dimmable luminaire (1-10 V)

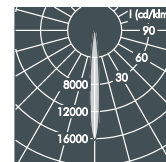
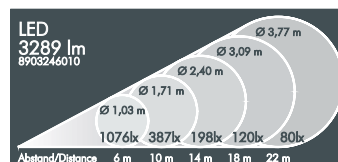


Monospot 3 pole luminaire

With a high performance LED module (Zhaga), integral temperature monitoring device, CRI: > 80, Colour tolerance: 2 SDCM
 Service life: L90/B10 > 50 000 h
 protection class I, IP67 , IK08
 windage area AW 0.034 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 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 95 mm, 1 drilled hole Ø 13.5 mm, tilt range 90°, swivel range 360°, M20 cable gland, integral driver (AC/DC)

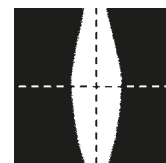
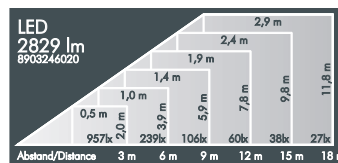
Monospot 3 pole luminaire, narrow beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 903 246 019	black	1 x LED module 36 W	3289 lm	9°
8 903 266 019	white	warm white (3000 K)		
8 903 256 019	silver grey			



Monospot 3 pole luminaire, linear beam spread, vertical

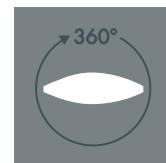
Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 903 246 029	black	1 x LED module 36 W	2829 lm	C 0 - 180
8 903 266 029	white	warm white (3000 K)		C 90 - 270
8 903 256 029	silver grey			36°



. 3. Luminaire with linear beam spread, horizontal

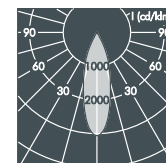
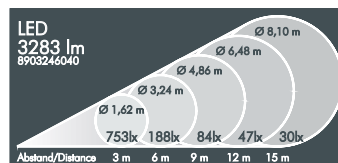
Monospot 3 pole luminaire, linear beam spread, rotatable

Part number	Colour	Description	Luminous flux	Beam angle γ (FWHM)
8 903 246 079	black	Luminaire with external ribbed glass spreader lens, continuously adjustable through 360° from outside the luminaire	2603 lm	C 0 - 180
8 903 266 079	white			C 90 - 270
8 903 256 079	silver grey			36°



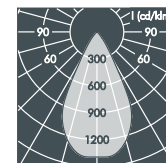
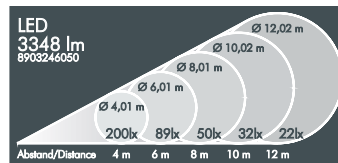
Monospot 3 pole luminaire, medium wide beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 903 246 049	black	1 x LED module 36 W	3283 lm	30°
8 903 266 049	white	warm white (3000 K)		
8 903 256 049	silver grey			



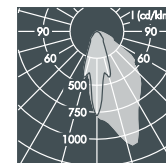
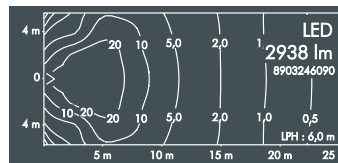
Monospot 3 pole luminaire, wide beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 903 246 059	black	1 x LED module 36 W	3348 lm	53°
8 903 266 059	white	warm white (3000 K)		
8 903 256 059	silver grey			



Monospot 3 pole luminaire, asymmetrical beam

Part number	Colour	Light source	Luminous flux	Main beam angle γ
8 903 246 099	black	1 x LED module 36 W	2938 lm	18°
8 903 266 099	white	warm white (3000 K)		
8 903 256 099	silver grey			




Part number	Description
. 5 . . .	Luminaire with neutral white colour temperature (4000 K)
. 1 . .	Dimmable luminaire (DALI)
. 2 . .	Dimmable luminaire (1-10 V)

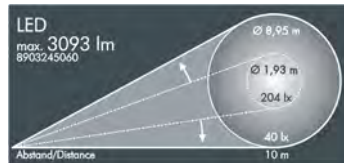
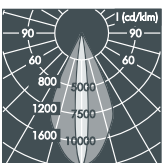
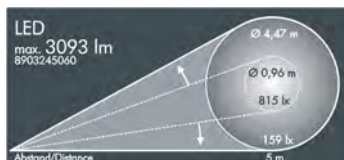
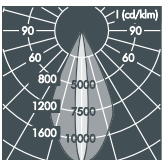
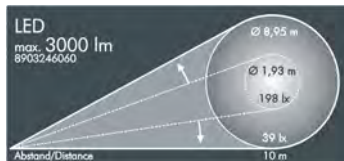
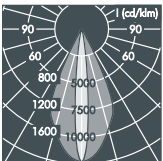
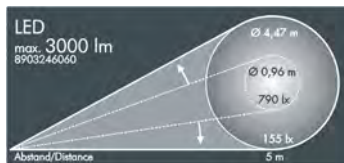
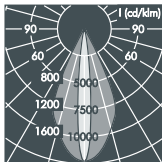
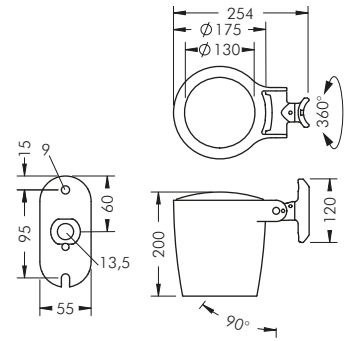
LED

Luminaires available in 2700 K or other colour temperatures on request



Monospot 3 Vario Optic pole luminaire

With a high performance LED module (Zhaga), integral temperature monitoring device, CRI: > 80, Colour tolerance: 2 SDCM
 Service life: L80/B20 > 50 000 h
 protection class I, IP67 , IK08
 windage area AW 0.034 m²
 corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated,
 high transmission glass optical lens,
 beam angle adjustable from outside the luminaire,
 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 95 mm,
 1 drilled hole Ø 13.5 mm, tilt range 90°,
 swivel range 360°, M20 cable gland,
 integral driver (AC/DC)



Monospot 3 Vario Optic, pole luminaire

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 903 246 069	black	1 x LED module 36 W	max. 3000 lm	11°-48°
8 903 266 069	white	warm white (3000 K)		
8 903 256 069	silver grey			

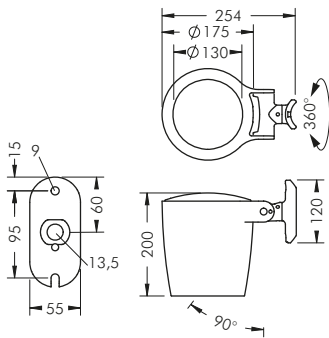
Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 903 245 069	black	1 x LED module 36 W	max. 3093 lm	11°-48°
8 903 265 069	white	neutral white (4000 K)		
8 903 255 069	silver grey			

Part number	Description
... 1 ..	Dimmable luminaire (DALI)
... 2 ..	Dimmable luminaire (1-10 V)

LED

Luminaires available in 2700 K or other colour temperatures on request





Monospot 3 Street Optic pole luminaire

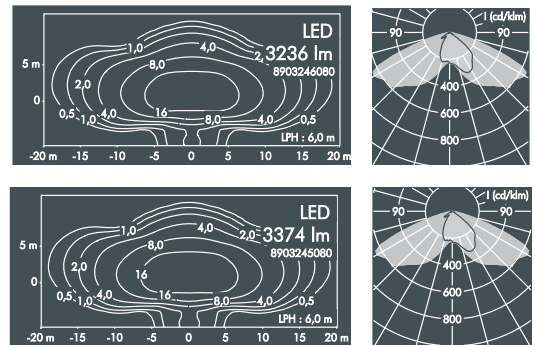
With a high performance LED module (Zhaga), integral temperature monitoring device, CRI: > 80, Colour tolerance: 2 SDCM
 Service life: L90/B10 > 50 000 h
 protection class I, IP67 , IK08
 windage area AW 0.034 m²
 corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated, lense made of high efficiency, UV stabilized optical silicon, 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 95 mm, 1 drilled hole Ø 13.5 mm, tilt range 90°, swivel range 360°, M20 cable gland, integral driver (AC/DC)

Monospot 3 Street optic pole luminaire


Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
8 903 246 089	black	1 x LED module 36 W	3236 lm	C 0 – 180	C 90 – 270
8 903 266 089	white	warm white (3000 K)		51°	121°
8 903 256 089	silver grey				

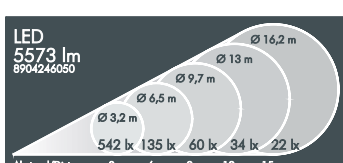
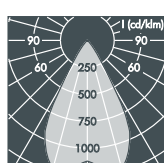
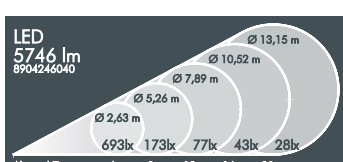
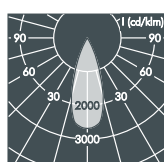
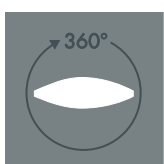
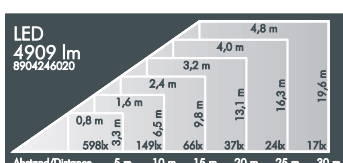
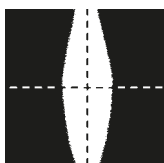
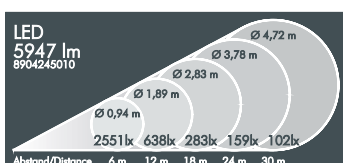
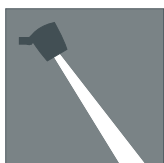
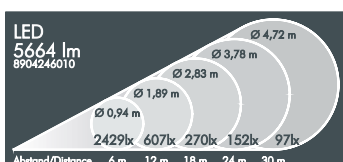
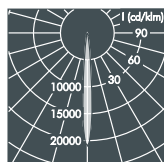
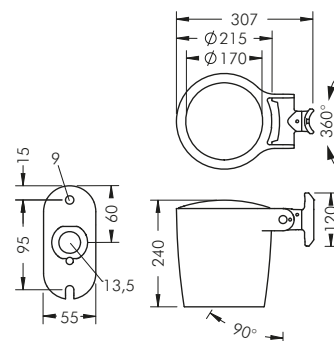
Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
8 903 245 089	black	1 x LED module 36 W	3374 lm	C 0 – 180	C 90 – 270
8 903 265 089	white	neutral white (4000 K)		51°	121°
8 903 255 089	silver grey				

Part number	Description
. 1 . .	Dimmable luminaire (DALI)



Monospot 4 pole luminaire

With a high performance LED module (Zhaga), integral temperature monitoring device, CRI: > 80, Colour tolerance: 2 SDCM
 Service life: L90/B10 > 50 000 h
 protection class I, IP67 , IK08
 windage area AW 0.051 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 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 95 mm,
 1 drilled hole Ø 13.5 mm, tilt range 90°, swivel range 360°, M20 cable gland,
 integral driver (AC/DC)



Monospot 4 pole luminaire, narrow beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 904 246 019	black	1 x LED module 70 W	5664 lm	9°
8 904 266 019	white	warm white (3000 K)		
8 904 256 019	silver grey			

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 904 245 019	black	1 x LED module 70 W	5947 lm	9°
8 904 265 019	white	neutral white (4000 K)		
8 904 255 019	silver grey			

Monospot 4 pole luminaire, linear beam spread, vertical

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 904 246 029	black	1 x LED module 70 W	4909 lm	C 0 - 180
8 904 266 029	white	warm white (3000 K)		36°
8 904 256 029	silver grey			9°

Monospot 4 pole luminaire, linear beam spread, horizontal

Monospot 4 pole luminaire, linear beam spread, rotatable


Part number	Colour	Description	Luminous flux	Beam angle γ (FWHM)
8 904 246 079	black	Luminaire with external ribbed glass spreader lens, continuously adjustable through 360° from outside the luminaire	4517 lm	C 0 - 180
8 904 266 079	white			36°
8 904 256 079	silver grey			9°

Monospot 4 pole luminaire, medium wide beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 904 246 049	black	1 x LED module 70 W	5746 lm	36°
8 904 266 049	white	warm white (3000 K)		
8 904 256 049	silver grey			

Monospot 4 pole luminaire, wide beam

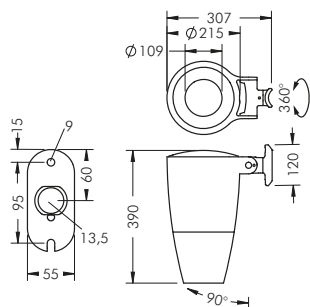
Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 904 246 059	black	1 x LED module 70 W	5573 lm	57°
8 904 266 059	white	warm white (3000 K)		
8 904 256 059	silver grey			

Part number	Description
8 904 246 050	Luminaire with neutral white colour temperature (4000 K)
8 904 246 051	Dimmable luminaire (DALI)
8 904 246 052	Luminaire with LED module RGBW max. 49 W 
8 904 246 053	Luminaire with Tunable White LED

LED

Luminaires available in 2700 K or other colour temperatures on request



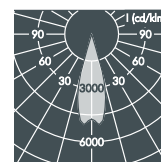
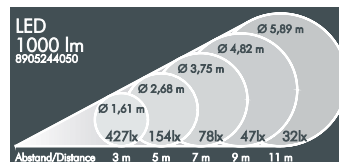


Monospot Gobo pole luminaire

With 1 x high performance LED module, CRI: > 70, colour tolerance: max. 4 SDCM service life: L70/B20 > 50 000 h protection class I, IP65 , IK08 windage area AW 0.076 m², corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated, focusable lense, carrier for gobos and colour filters, 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 95 mm, 1 drilled hole Ø 13.5 mm, tilt range 90°, swivel range 360°, M20 cable gland, integral driver (AC/DC)

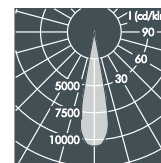
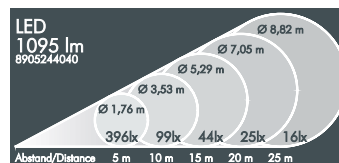
Monospot Gobo pole luminaire, 63 mm focal length

Part number	Colour	Light source	Luminous flux	Beam angle
8 905 244 059	black	1 x LED module 47 W	1000 lm	30°
8 905 264 059	white	cool white (6500 K)		
8 905 254 059	silver grey			



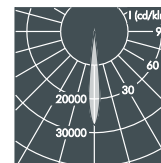
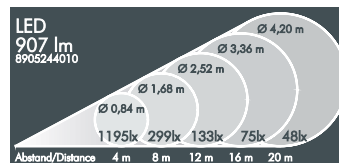
Monospot Gobo pole luminaire, 85 mm focal length

Part number	Colour	Light source	Luminous flux	Beam angle
8 905 244 049	black	1 x LED module 47 W	1095 lm	20°
8 905 264 049	white	cool white (6500 K)		
8 905 254 049	silver grey			



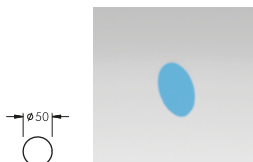
Monospot Gobo pole luminaire, 150 mm focal length

Part number	Colour	Light source	Luminous flux	Beam angle
8 905 244 019	black	1 x LED module 47 W	907 lm	12°
8 905 264 019	white	cool white (6500 K)		
8 905 254 019	silver grey			



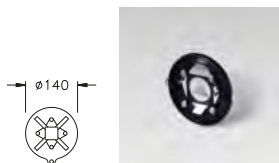
Part number	Description
. 1..	Dimmable version (DALI)
. 2..	Dimmable version (1-10 V)





Accessories Monospot Gobo

Part number	Colour	Description
129 0 551 000	yellow	Dichroic colour filter
129 0 557 000	red	
129 0 553 000	blue	
129 0 558 000	green	



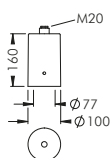
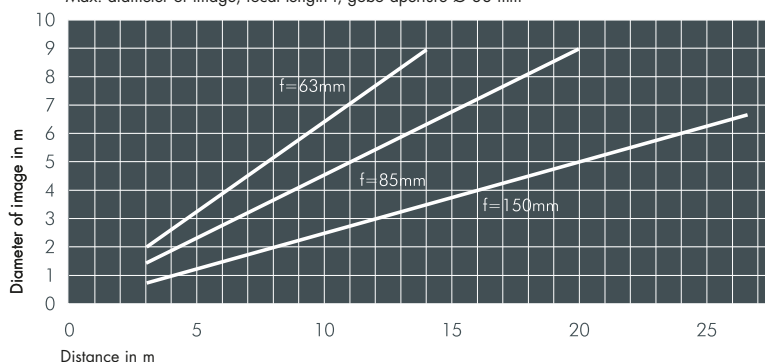
Part number	Description
129 0 257 000	Framer for sharp edges on 3- or 4-sided images



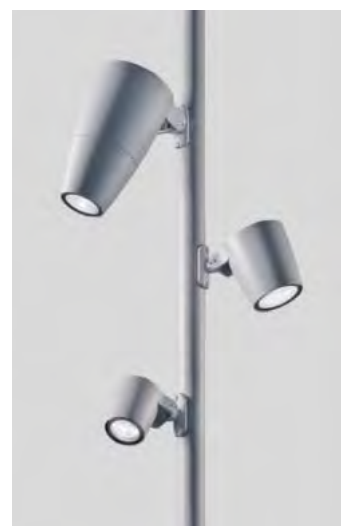
Part number	Example	Description
129 0 489 000	waves	Standard gobos Ø 50 mm
129 0 490 000	stars	
129 0 491 000	hash	

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 (outer diameter gobo 50 mm)

Max. diameter of image, focal length f, gobo aperture Ø 38 mm

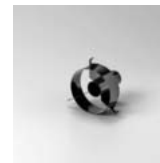


Part number	Colour	Description
128 0 626 940	black	Pole Top Filter , aluminium, for 76 mm pole top, with M20 x 1.5 connection thread, for installation of one projector with mounting bracket
128 0 626 960	white	
128 0 626 950	silver grey	



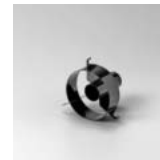
Monospot 2

Part number	Description
129 0 728 940	Radial louvre , internal (factory fitted), to reduce lateral glare



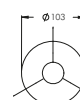
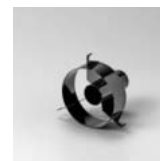
Monospot 3

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



Monospot 4

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



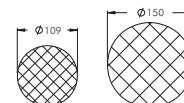
Monospot 1, 2

Part number	Luminaire	Description	Beam angle γ (FWHM)	
			narrow beam	medium wide beam
129 0 732 000	Monospot 1	Prismatic glass , for diffused light distribution	15°	41°
129 0 733 000	Monospot 2	for diffused light distribution	17°	38°



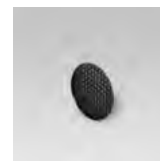
Monospot 3, 4

Part number	Luminaire	Description	Beam angle γ (FWHM)	
			narrow beam	medium wide beam
129 0 734 000	Monospot 3	Prismatic glass , for diffused light distribution	18°	37°
129 0 735 000	Monospot 4	for diffused light distribution	19°	46°



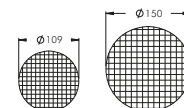
Monospot 1, 2

Part number	Luminaire	Description
129 0 751 000	Monospot 1	Honeycomb louvre , internal (factory fitted), to avoid glare
129 0 752 000	Monospot 2	to avoid glare

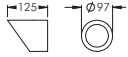


Monospot 3, 4

Part number	Luminaire	Description
129 0 753 000	Monospot 3	Honeycomb louvre , internal (factory fitted), to avoid glare
129 0 754 000	Monospot 4	to avoid glare



Since the LED modules are located deep inside the reflectors, the luminaires have good cut-off and excellent glare control. Accessories, such as louvres and optical glasses, are internally fitted and therefore maintenance-free.



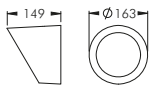
Monospot 1

Part number	Colour	Description
129 0 722 940	black	Cowl , stainless steel, to avoid lateral glare, for retro-fitting
129 0 722 960	white	
129 0 722 950	silver grey	



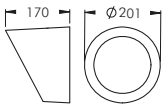
Monospot 2

Part number	Colour	Description
129 0 723 940	black	Cowl , stainless steel, to avoid lateral glare, for retro-fitting
129 0 723 960	white	
129 0 723 950	silver grey	



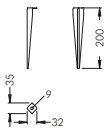
Monospot 3

Part number	Colour	Description
129 0 724 940	black	Cowl , stainless steel, to avoid lateral glare, for retro-fitting
129 0 724 960	white	
129 0 724 950	silver grey	



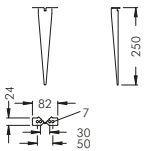
Monospot 4

Part number	Colour	Description
129 0 725 940	black	Cowl , stainless steel, to avoid lateral glare, for retro-fitting
129 0 725 960	white	
129 0 725 950	silver grey	



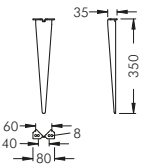
Monospot 1

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 2

Part number	Colour	Description
129 0 502 940	black	Stainless steel earth spike , for use in landscape lighting
129 0 502 960	white	
129 0 502 950	silver grey	



Monospot 3+4

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	

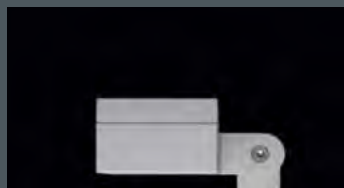




Highline is a range of façade luminaires of minimalistic design. They are available with wall washer, narrow beam or asymmetrical distribution. The fields of application range from accent lighting to uniform wall washing. Highline is a versatile instrument for many different applications, in a uniform and discreet housing.

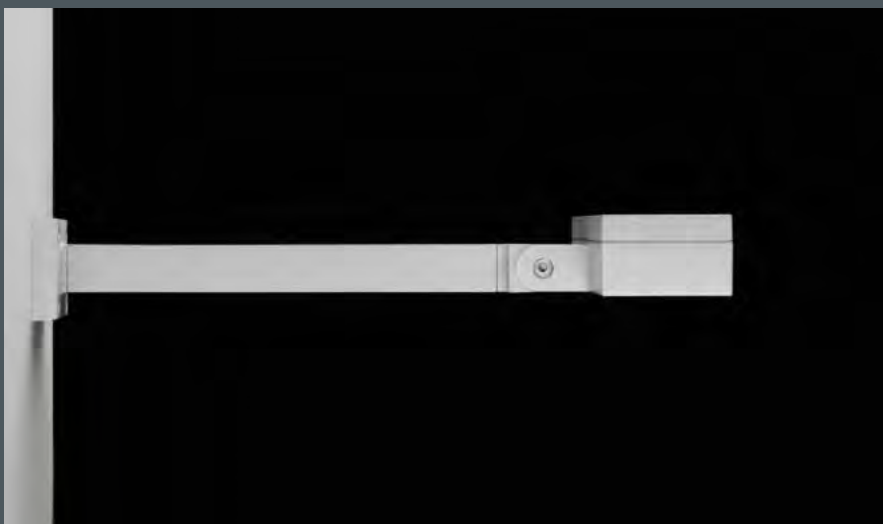


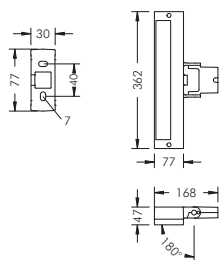
With narrow beam distribution the luminaires are used for the accent lighting of vertical surfaces.



The narrow beam version produces an intensive grazing effect above the longitudinal axis of the luminaire.

The luminaires are available with 3 different fixing systems:
a bracket for installation on a façade, a mounting base or a wall arm.



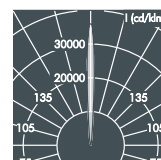
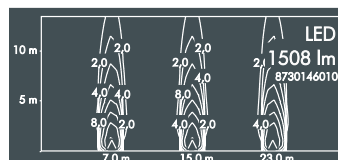


Highline with wall bracket

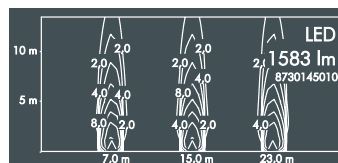
With high performance LEDs, integral temperature monitoring device, CRI: > 80, Colour tolerance: max. 2 SDCM Service life: L90/B10 > 50 000 h protection class I, IP67 IK08 windage area AW 0.029 m² corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated, all exterior steel parts are stainless steel, tempered safety glass, silicon gasket, closure with 2 stainless steel screws, wall bracket: 2 elongated holes Ø 6,5 mm, spacing 40 mm, tilt range 180°, M20 cable gland, integral driver (AC/DC)

Highline, narrow beam

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 730 146 019	black	9 x LED 2.5 W warm white (3000 K)	1508 lm	6°
8 730 166 019	white			
8 730 156 019	silver grey			

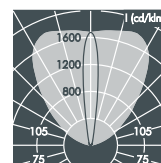
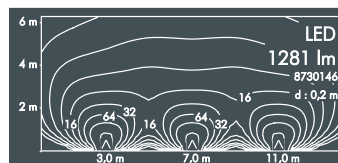


Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 730 145 019	black	9 x LED 2.5 W neutral white (4000 K)	1583 lm	6°
8 730 165 019	white			
8 730 155 019	silver grey			

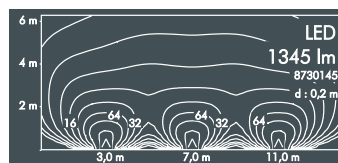


Highline, wall washer

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 730 146 009	black	9 x LED 2.5 W warm white (3000 K)	1281 lm	C 0 - 180 C 90 - 270
8 730 166 009	white			
8 730 156 009	silver grey			

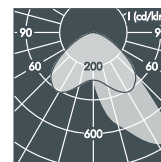
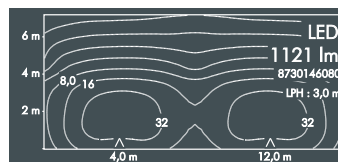


Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 730 145 009	black	9 x LED 2.5 W neutral white (4000 K)	1345 lm	C 0 - 180 C 90 - 270
8 730 165 009	white			
8 730 155 009	silver grey			

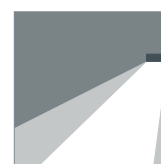
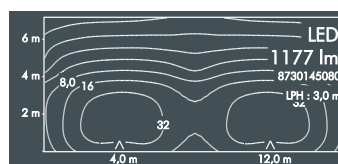


Highline, asymmetrical beam

Part number	Colour	Light source	Luminous flux	Main beam angle γ
8 730 146 089	black	9 x LED 2.5 W warm white (3000 K)	1121 lm	35°
8 730 166 089	white			
8 730 156 089	silver grey			

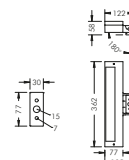


Part number	Colour	Light source	Luminous flux	Main beam angle γ
8 730 145 089	black	9 x LED 2.5 W neutral white (4000 K)	1177 lm	35°
8 730 165 089	white			
8 730 155 089	silver grey			



Part number	Description
. . . . 0	Luminaire with mounting flange (for horizontal surfaces)




Part number	Description
. 1 . .	Dimmable luminaire (DALI)
. 2 . .	Dimmable luminaire (1-10 V)

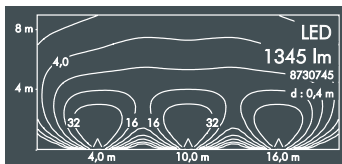
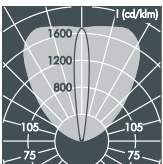
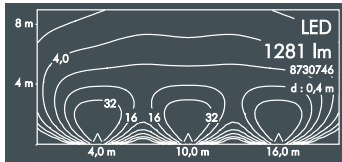
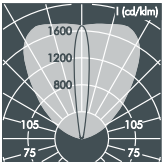
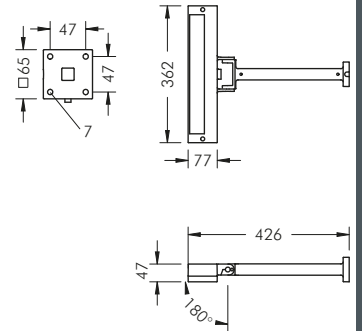


LED

Luminaires available in 2700 K and other colour temperatures on request

Highline with wall arm

With 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 0.035 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 2 stainless steel screws,
 mounting plate: 4 drilled holes Ø 7 mm,
 spacing 47 mm, joint with tilt range 180°,
 M20 cable gland,
 integral driver (AC/DC)



Highline with wall arm, wall washer

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
8 730 746 009	black	9 x LED 2.5 W warm white (3000 K)	1281 lm	C 0 – 180	C 90 – 270
8 730 766 009	white			14°	93°
8 730 756 009	silver grey				

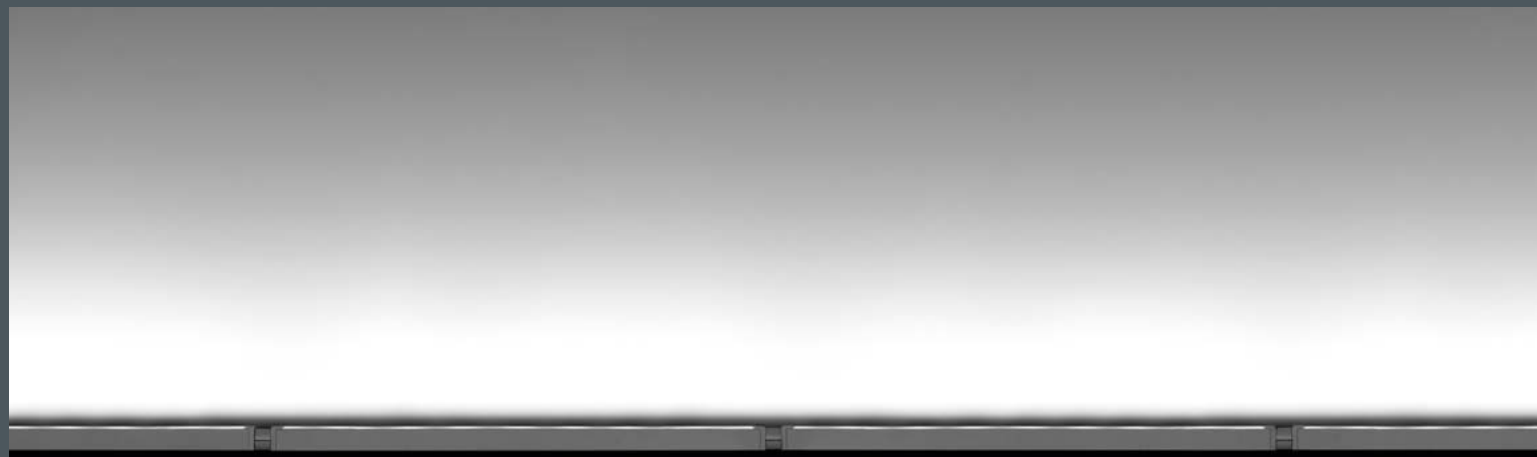
Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
8 730 745 009	black	9 x LED 2.5 W neutral white (4000 K)	1345 lm	C 0 – 180	C 90 – 270
8 730 765 009	white			14°	93°
8 730 755 009	silver grey				

Part number	Description
• • • • • 1 ..	Dimmable luminaire (DALI)
• • • • • 2 ..	Dimmable luminaire (1-10 V)

LED

Luminaires available in 2700 K and other colour temperatures on request

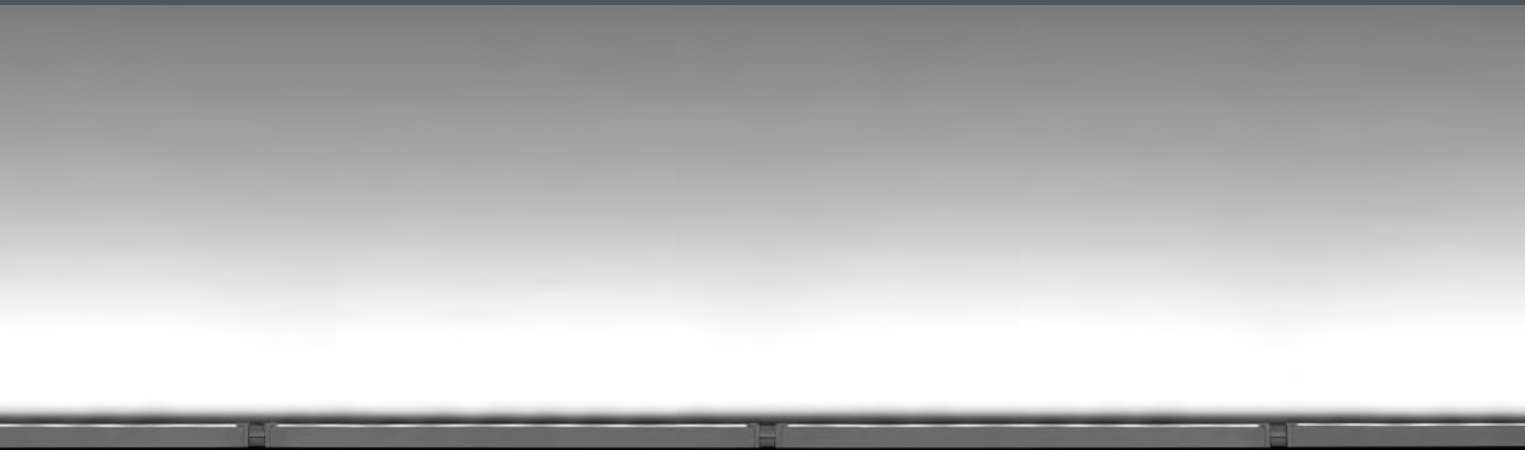




Ecoline Mini is a façade luminaire series of extremely compact dimensions and with integral driver. As well as individual luminaires there is also a modular system available for creating continuous lines with barely any shadow between the sections. The very slim cross section allows for discreet installation. The luminaires are available with wall washer optics or in asymmetrical distribution.

Ecoline Mini complements the Ecoline series with products of even more compact dimensions. They are the smallest linear products on the market with integral driver, for direct connection to mains voltage.

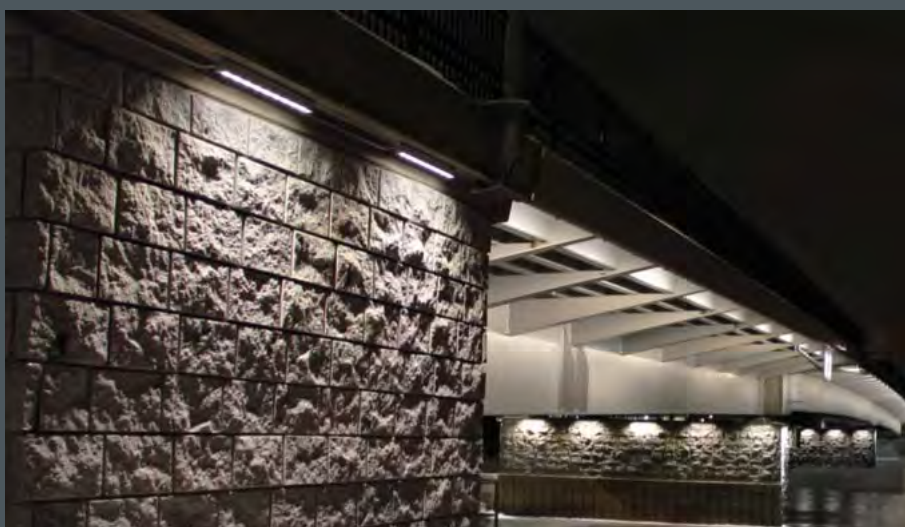
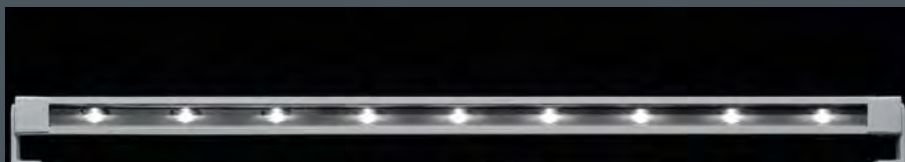




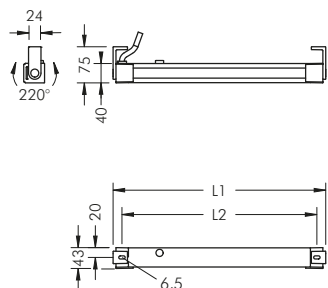
Design: Roy Fleetwood



The precise optics produce wall washer or asymmetrical distribution.



Sirkkalan Silta, Finland
Lighting design: Ramboll, Satu Marttila

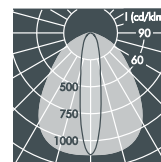
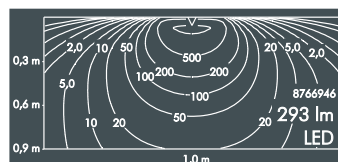


Ecoline Mini

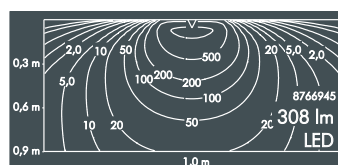
With high performance LEDs, integral temperature monitoring device, CRI: > 80, Colour tolerance: max. 2 SDCM Service life: L90/B10 > 50 000 h protection class I, IP65 \diamond \triangle \triangle , IK10 housing made of extruded aluminium and corrosion-resistant die cast aluminium AlSi12, polyester powder coated, all exterior steel parts are stainless steel, polycarbonate cover, silicon gasket, mounting flanges: 2 elongated holes \varnothing 6.5 mm, spacing L2, tilt range 220°, M16 cable gland, with 1 m cable H05RN-F3G1 attached, integral driver (AC/DC)

Ecoline Mini, wall washer, L1 = 444 mm, L2 = 407 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 766 946 009	black	3 x LED 1.7 W warm white (3000 K)	293 lm	20°	88°
8 766 966 009	white				
8 766 956 009	silver grey				

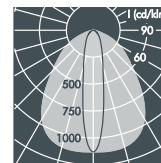
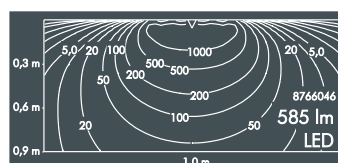


Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 766 945 009	black	3 x LED 1.7 W neutral white (4000 K)	308 lm	20°	88°
8 766 965 009	white				
8 766 955 009	silver grey				

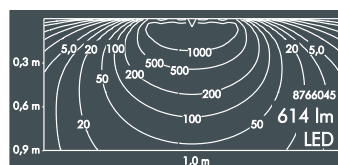


Ecoline Mini, wall washer, L1 = 668 mm, L2 = 631 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 766 046 009	black	6 x LED 1.7 W warm white (3000 K)	585 lm	20°	88°
8 766 066 009	white				
8 766 056 009	silver grey				

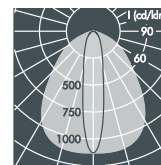
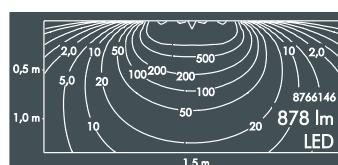


Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 766 045 009	black	6 x LED 1.7 W neutral white (4000 K)	614 lm	20°	88°
8 766 065 009	white				
8 766 055 009	silver grey				

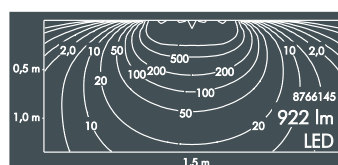


Ecoline Mini, wall washer, L1 = 962 mm, L2 = 925 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 766 146 009	black	9 x LED 1.7 W warm white (3000 K)	878 lm	20°	88°
8 766 166 009	white				
8 766 156 009	silver grey				



Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 766 145 009	black	9 x LED 1.7 W neutral white (4000 K)	922 lm	20°	88°
8 766 165 009	white				
8 766 155 009	silver grey				

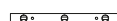


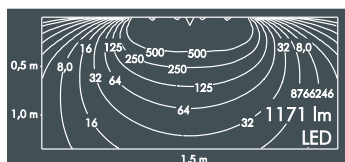
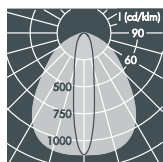
Part number	Description
. 1..	Dimmable luminaire (DALI)*
. 2..	Dimmable luminaire (1-10 V)*

* Not available for luminaire L1 = 444 mm

LED

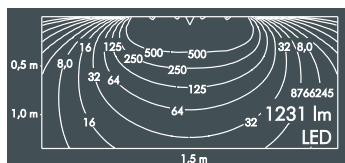
Luminaires available in 2700 K and other colour temperatures on request



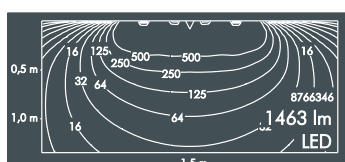
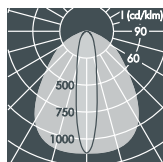


Ecoline Mini, wall washer, L1 = 1256 mm, L2 = 1219 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 766 246 009	black	12 x LED 1.7 W warm white (3000 K)	1171 lm	20°	88°
8 766 266 009	white				
8 766 256 009	silver grey				

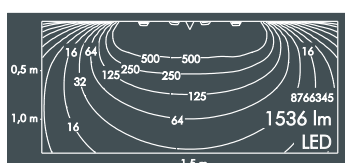


Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 766 245 009	black	12 x LED 1.7 W neutral white (4000 K)	1231 lm	20°	88°
8 766 265 009	white				
8 766 255 009	silver grey				



Ecoline Mini, wall washer, L1 = 1550 mm, L2 = 1513 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 766 346 009	black	15 x LED 1.7 W warm white (3000 K)	1463 lm	20°	88°
8 766 366 009	white				
8 766 356 009	silver grey				



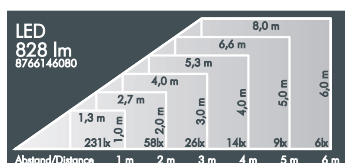
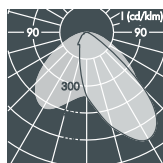
Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 766 345 009	black	15 x LED 1.7 W neutral white (4000 K)	1536 lm	20°	88°
8 766 365 009	white				
8 766 355 009	silver grey				



Ecoline Mini, asymmetrical beam**

Part number	Description
. 8.	Luminaires with asymmetrical distribution

** The luminaires are available in 5 different lengths.



Ecoline Mini, asymmetrical beam, L1 = 962 mm, L2 = 925 mm

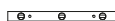
Part number	Colour	Light source	Luminous flux	Main beam angle γ
8 766 146 089	black	9 x LED 1.7 W warm white (3000 K)	828 lm	30°
8 766 166 089	white			
8 766 156 089	silver grey			

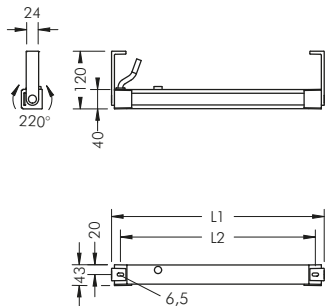
Part number	Description
. 1..	Dimmable luminaire (DALI)*
. 2..	Dimmable luminaire (1-10 V)*

* Not available for luminaire L1 = 444 mm


LED

Luminaires available in 2700 K and other colour temperatures on request



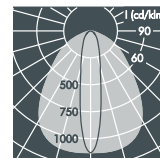
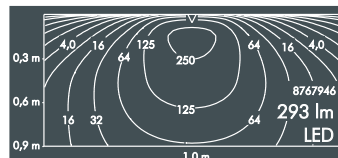


Ecoline Mini with wall arms

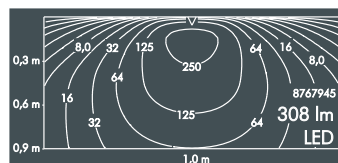
With high performance LEDs, integral temperature monitoring device, CRI: > 80, Colour tolerance: max. 2 SDCM Service life: L90/B10 > 50 000 h protection class I, IP65 , IK10 housing made of extruded aluminium and corrosion-resistant die cast aluminium AlSi12, polyester powder coated, all exterior steel parts are stainless steel, polycarbonate cover, silicon gasket, wall arms: 2 elongated holes Ø 6.5 mm, spacing L2, tilt range 220°, M16 cable gland, with 1 m cable H05RN-F3G1 attached, integral driver (AC/DC)

Ecoline Mini, wall washer with wall arms, L1 = 444 mm, L2 = 407 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 767 946 009	black	3 x LED 1.7 W warm white (3000 K)	293 lm	20°	88°
8 767 966 009	white				
8 767 956 009	silver grey				

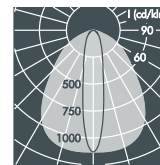
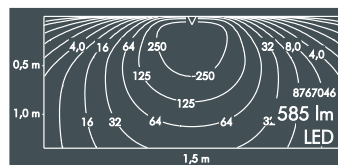


Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 767 945 009	black	3 x LED 1.7 W neutral white (4000 K)	308 lm	20°	88°
8 767 965 009	white				
8 767 955 009	silver grey				

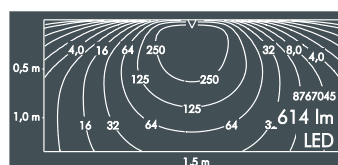


Ecoline Mini, wall washer with wall arms, L1 = 668 mm, L2 = 631 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 767 046 009	black	6 x LED 1.7 W warm white (3000 K)	585 lm	20°	88°
8 767 066 009	white				
8 767 056 009	silver grey				

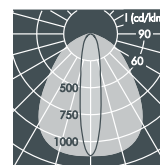
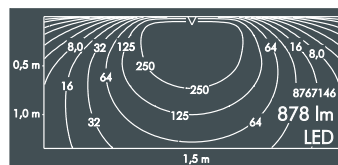


Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 767 045 009	black	6 x LED 1.7 W neutral white (4000 K)	614 lm	20°	88°
8 767 065 009	white				
8 767 055 009	silver grey				

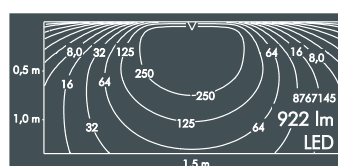


Ecoline Mini, wall washer with wall arms, L1 = 962 mm, L2 = 925 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 767 146 009	black	9 x LED 1.7 W warm white (3000 K)	878 lm	20°	88°
8 767 166 009	white				
8 767 156 009	silver grey				



Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 767 145 009	black	9 x LED 1.7 W neutral white (4000 K)	922 lm	20°	88°
8 767 165 009	white				
8 767 155 009	silver grey				

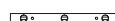


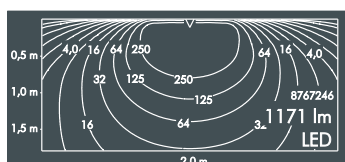
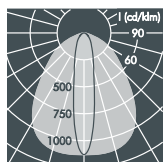
Part number	Description
. 1..	Dimmable luminaire (DALI)*
. 2..	Dimmable luminaire (1-10 V)*

* Not available for luminaire L1 = 444 mm

LED

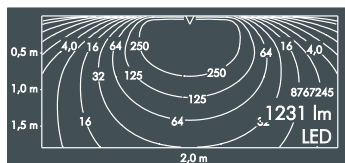
Luminaires available in 2700 K and other colour temperatures on request



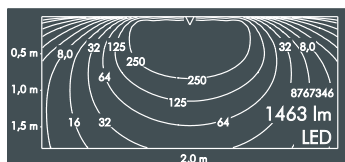
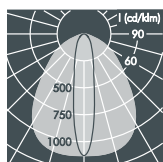


Ecoline Mini, wall washer with wall arms, L1 = 1256 mm, L2 = 1219 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 – 180	C 90 – 270
8 767 246 009	black	12 x LED 1.7 W warm white (3000 K)	1171 lm	20°	88°
8 767 266 009	white				
8 767 256 009	silver grey				

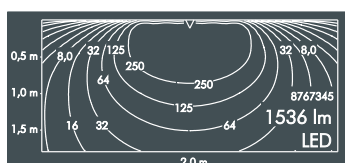


Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 – 180	C 90 – 270
8 767 245 009	black	12 x LED 1.7 W neutral white (4000 K)	1231 lm	20°	88°
8 767 265 009	white				
8 767 255 009	silver grey				



Ecoline Mini, wall washer with wall arms, L1 = 1550 mm, L2 = 1513 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 – 180	C 90 – 270
8 767 346 009	black	15 x LED 1.7 W warm white (3000 K)	1463 lm	20°	88°
8 767 366 009	white				
8 767 356 009	silver grey				



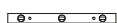
Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 – 180	C 90 – 270
8 767 345 009	black	15 x LED 1.7 W neutral white (4000 K)	1536 lm	20°	88°
8 767 365 009	white				
8 767 355 009	silver grey				

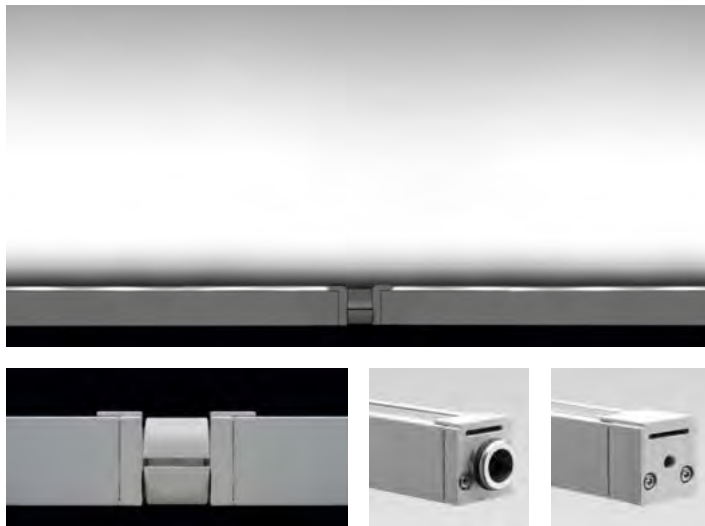
Part number	Description
. 1 . .	Dimmable luminaire (DALI)*
. 2 . .	Dimmable luminaire (1-10 V)*

* Not available for luminaire L1 = 444 mm

LED

Luminaires available in 2700 K and other colour temperatures on request





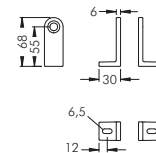
Ecoline Mini S Modular System

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.

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.

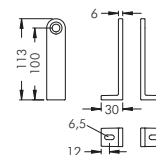
Mounting components for Ecoline Mini S Modular System

Part number	Colour	Description
127 0 392 940	black	Wall flange set, (pair) for outer luminaires
127 0 392 960	white	
127 0 392 950	silver grey	



Mounting components for Ecoline Mini S Modular System

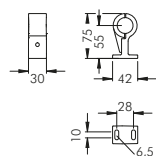
Part number	Colour	Description
127 0 393 940	black	Wall arm set, (pair) for outer luminaires, length 100 mm
127 0 393 960	white	
127 0 393 950	silver grey	



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.

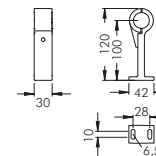
Mounting components for Ecoline Mini S Modular System

Part number	Colour	Description
127 0 390 940	black	Connection flange, to connect two luminaires
127 0 390 960	white	
127 0 390 950	silver grey	



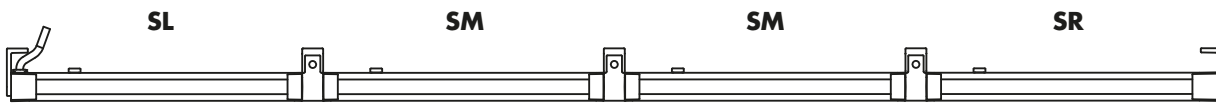
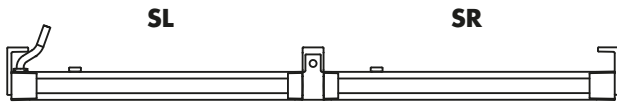
Mounting components for Ecoline Mini S Modular System

Part number	Colour	Description
127 0 391 940	black	Connection arm, to connect two luminaires, length 100 mm
127 0 391 960	white	
127 0 391 950	silver grey	




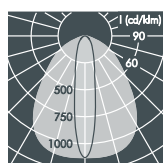
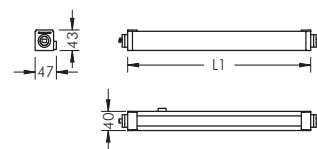
The Modular System

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



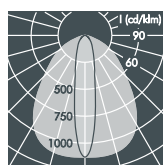
Ecoline Mini SM Modular System, middle

With 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 , IK10
housing made of extruded aluminium and
corrosion-resistant die cast aluminium AlSi12,
polyester powder coated,
all exterior steel parts are stainless steel,
polycarbonate cover, silicon gasket,
with connection coupling and
3-pin connector on left and right,
tilt range 220°,
integral driver (AC/DC)



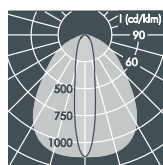
Ecoline Mini SM, middle, wall washer, L1 = 625 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
8 769 046 009	black	6 x LED 1.7 W warm white (3000 K)	585 lm	C 0 – 180	C 90 – 270
8 769 066 009	white			20°	88°
8 769 056 009	silver grey				



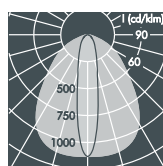
Ecoline Mini SM, middle, wall washer, L1 = 919 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
8 769 146 009	black	9 x LED 1.7 W warm white (3000 K)	878 lm	C 0 – 180	C 90 – 270
8 769 166 009	white			20°	88°
8 769 156 009	silver grey				



Ecoline Mini SM, middle, wall washer, L1 = 1213 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
8 769 246 009	black	12 x LED 1.7 W warm white (3000 K)	1171 lm	C 0 – 180	C 90 – 270
8 769 266 009	white			20°	88°
8 769 256 009	silver grey				



Ecoline Mini SM, middle, wall washer, L1 = 1507 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
8 769 346 009	black	15 x LED 1.7 W warm white (3000 K)	1463 lm	C 0 – 180	C 90 – 270
8 769 366 009	white			20°	88°
8 769 356 009	silver grey				

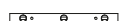
Ecoline Mini SM, middle, wall washer

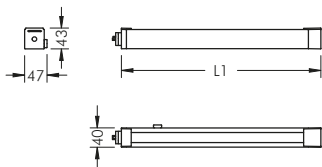
Part number	Description
. 5 . . .	Luminaire with neutral white colour temperature (4000 K)
. 1 . .	Dimmable luminaire (DALI)
. 2 . .	Dimmable luminaire (1-10 V)

The luminaires can be supplied with asymmetrical light distribution upon request.

LED

Luminaires available in 2700 K and other colour temperatures on request



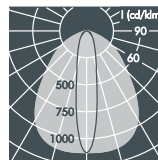


Ecoline Mini SR Modular System, right

With 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 , IK10
housing made of extruded aluminium and corrosion-resistant die cast aluminium AlSi12, polyester powder coated, all exterior steel parts are stainless steel, polycarbonate cover, silicon gasket, with connection coupling and 3-pin connector on left, tilt range 220°, integral driver (AC/DC)

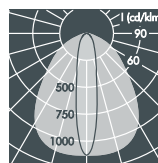
Ecoline Mini SR, right, wall washer, L1 = 641 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 770 046 009	black	6 x LED 1.7 W warm white (3000 K)	585 lm	20°	88°
8 770 066 009	white				
8 770 056 009	silver grey				



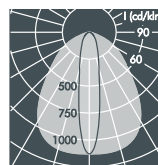
Ecoline Mini SR, right, wall washer, L1 = 935 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 770 146 009	black	9 x LED 1.7 W warm white (3000 K)	878 lm	20°	88°
8 770 166 009	white				
8 770 156 009	silver grey				



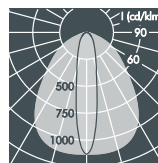
Ecoline Mini SR, right, wall washer, L1 = 1229 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 770 246 009	black	12 x LED 1.7 W warm white (3000 K)	1171 lm	20°	88°
8 770 266 009	white				
8 770 256 009	silver grey				



Ecoline Mini SR, right, wall washer, L1 = 1523 mm

Part number	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 770 346 009	black	15 x LED 1.7 W warm white (3000 K)	1463 lm	20°	88°
8 770 366 009	white				
8 770 356 009	silver grey				



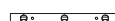
Ecoline Mini SR, right, wall washer

Part number	Description
. 5 . . .	Luminaire with neutral white colour temperature (4000 K)
. 1 . .	Dimmable luminaire (DALI)
. 2 . .	Dimmable luminaire (1-10 V)

The luminaires can be supplied with asymmetrical light distribution upon request.

LED

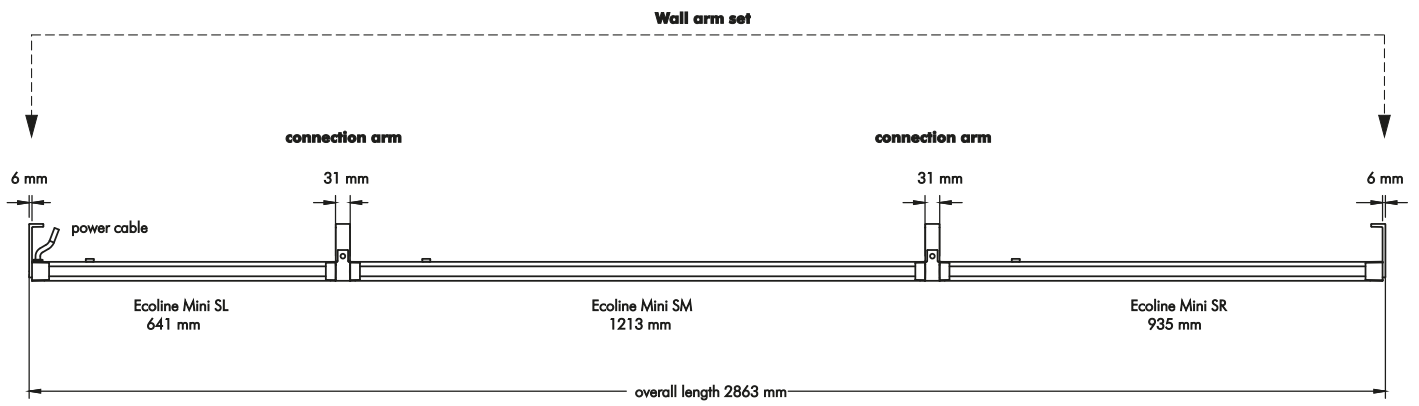
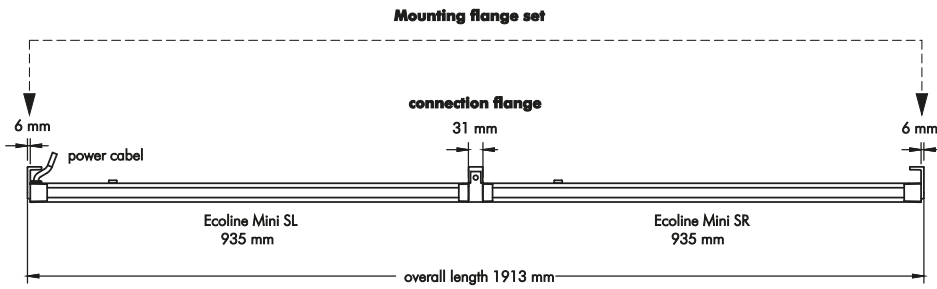
Luminaires available in 2700 K and other colour temperatures on request



System examples

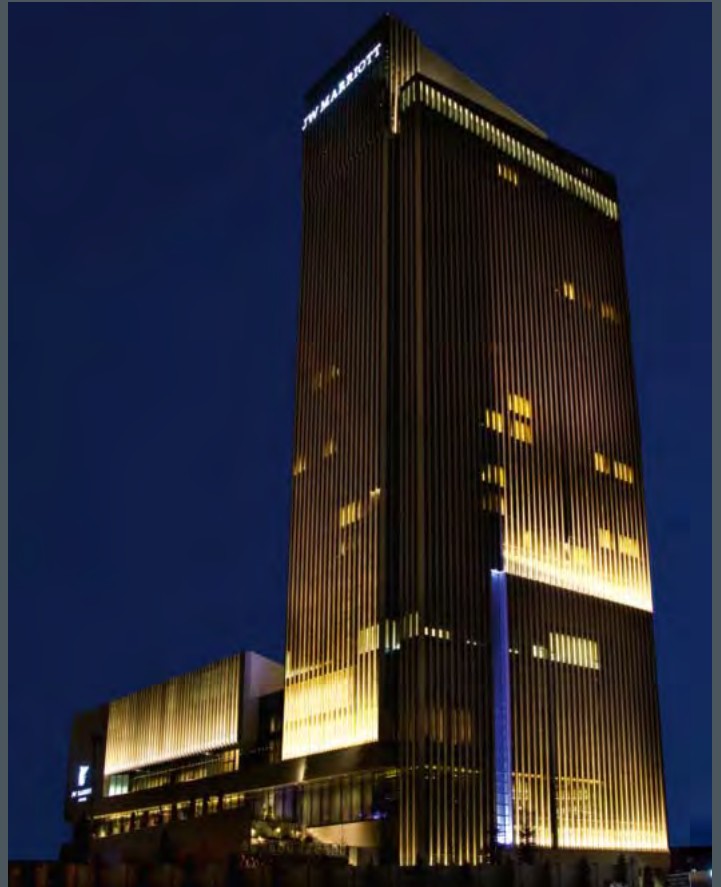
To calculate the overall length of the system, the lengths of the individual luminaire modules and the dimensions of the connection flanges or arms must be added together.

By combining luminaires of different lengths, the overall length of the system can be made to coincide with the dimensions of the surface to be illuminated.



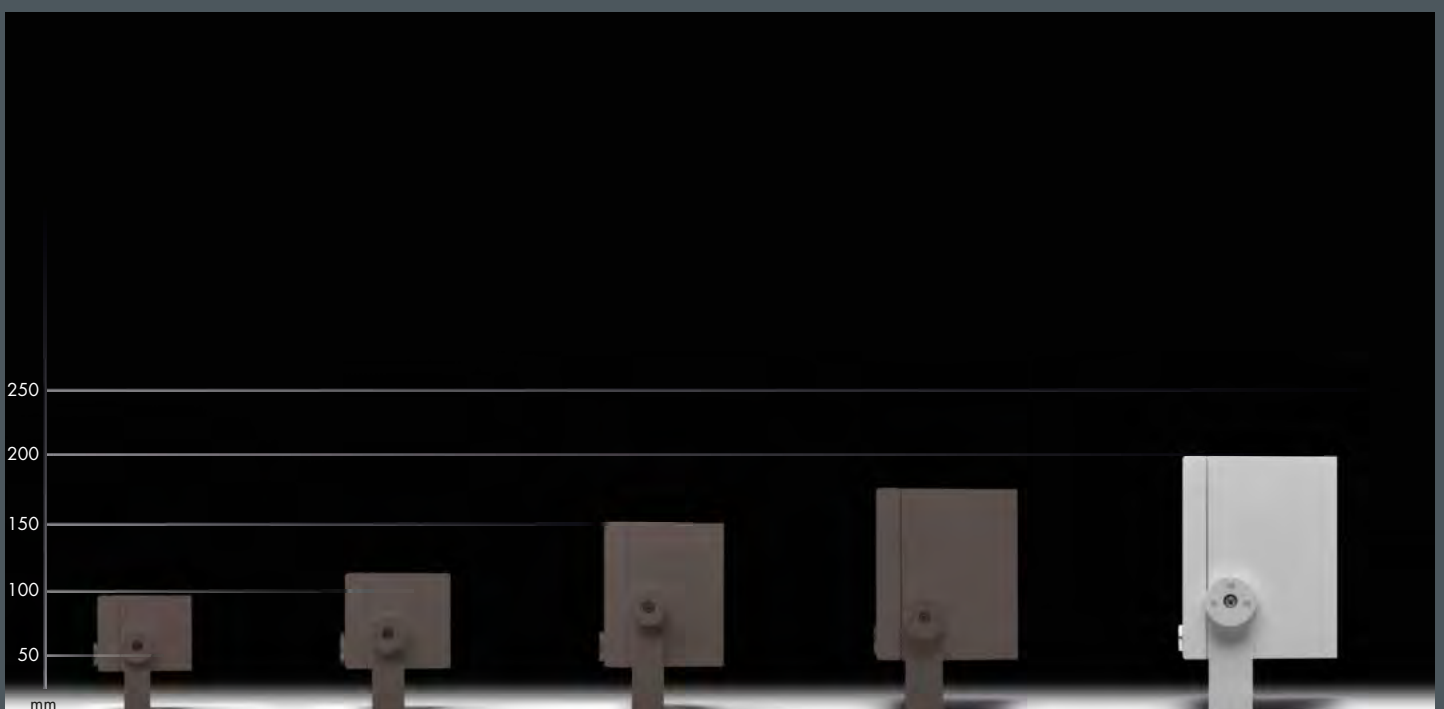


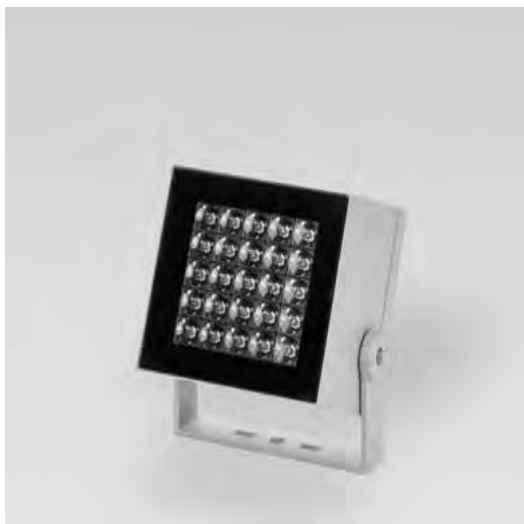
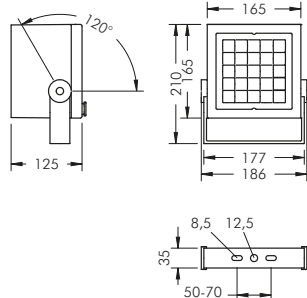
The compact Superlight Nano floodlight series is extended by a larger size version with high lumen output. Superlight Nano 5 is an ideal lighting tool for façade lighting on tall buildings and for accent lighting from long distances. There is a choice of optics with narrow beam, linear beam and wide beam control. With integral control gear a direct connection to mains voltage power supply is possible.



JW Marriott Hotel, Ankara, Turkey
Lighting design: dpa lighting consultants, London/Oxfordshire

Despite its high output this new floodlight has compact dimensions and can be installed discretely in any environment.





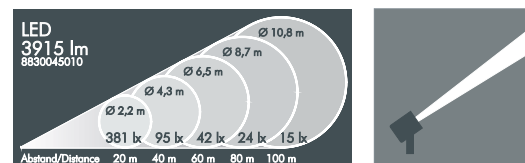
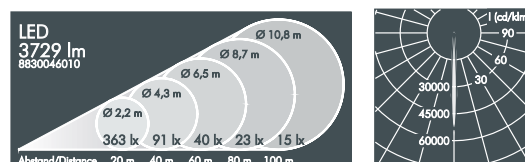
Superlight Nano 5

Equipped with 25 x 2.3 W 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 0.03 m² corrosion-resistant die cast aluminium housing AlSi12, polyester powder coated, all exterior steel parts are stainless steel, tempered safety glass, silicon gasket, powder coated die cast aluminium mounting bracket with tilt scale: 2 elongated holes Ø 8.5 mm, spacing 50-70 mm, 1 centre hole Ø 12.5 mm, tilt range 120°, M20 cable gland, integral driver (AC/DC)

Superlight Nano 5, narrow beam

Part number*	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 830 046 019	black	25 x LED 2.3 W	3729 lm	6°
8 830 066 019	white	warm white (3000 K)		
8 830 056 019	silver grey			

8 830 045 019	black	25 x LED 2.3 W	3915 lm	6°
8 830 065 019	white	neutral white (4000 K)		
8 830 055 019	silver grey			



Superlight Nano 5, linear beam spread, vertical

Part number*	Colour	Light source	Luminous flux	Beam angle γ (FWHM)	
				C 0 - 180	C 90 - 270
8 830 046 029	black	25 x LED 2.3 W	3715 lm	42°	7°
8 830 066 029	white	warm white (3000 K)			
8 830 056 029	silver grey				



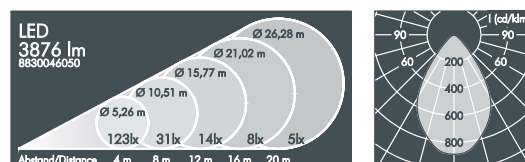
8 830 045 029	black	25 x LED 2.3 W	3901 lm	42°	7°
8 830 065 029	white	neutral white (4000 K)			
8 830 055 029	silver grey				



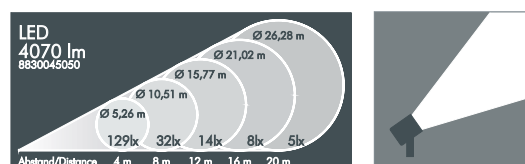
Part number*	Description
.3.	Luminaire with linear beam spread, horizontal

Superlight Nano 5, wide beam

Part number*	Colour	Light source	Luminous flux	Beam angle γ (FWHM)
8 830 046 059	black	25 x LED 2.3 W	3876 lm	66°
8 830 066 059	white	warm white (3000 K)		
8 830 056 059	silver grey			



8 830 045 059	black	25 x LED 2.3 W	4070 lm	66°
8 830 065 059	white	neutral white (4000 K)		
8 830 055 059	silver grey			



Part number*	Description	Beam angle γ (FWHM)
.4.	Luminaire with medium wide beam optics	32°

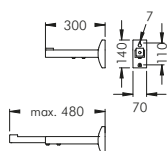
Part number*	Description
. 1..	Dimmable version (DALI)
. 2..	Dimmable version (1-10 V)
. 4..	Luminaire with 2 cable glands for through wiring

*Luminaires available with other light distributions on request

LED

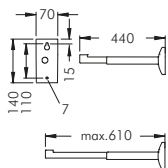
Luminaires available in 2700 K and other colour temperatures on request



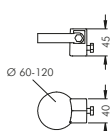


Accessories Superlight Nano

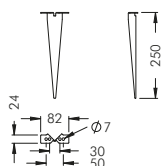
Part number	Colour	Description
128 0 700 940	black	Telescopic wall arm 300 - 480 mm,
128 0 700 960	white	aluminium, polyester powder coated
128 0 700 950	silver grey	



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	

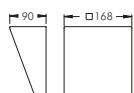


Part number	Colour	Description
128 0 760 940	black	Pole clamp, aluminium,
128 0 760 960	white	polyester powder coated, stainless steel strap,
128 0 760 950	silver grey	for mounting on poles Ø 60 - 120 mm

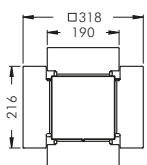


Part number	Colour	Description
129 0 502 940	black	Earth spike, stainless steel,
129 0 502 960	white	for use in landscaped areas
129 0 502 950	silver grey	

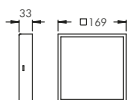
Accessories Superlight Nano 5



Part number	Colour	Description
128 0 862 940	black	Cowl, stainless steel,
128 0 862 960	white	to avoid glare from 3 directions,
128 0 862 950	silver grey	for retro-fitting



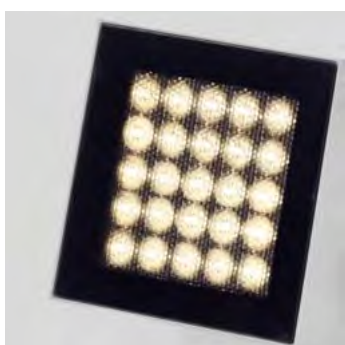
Part number	Colour	Description
128 0 861 940	black	Barn doors, aluminium,
128 0 861 960	white	to avoid glare from 4 directions,
128 0 861 950	silver grey	for retro-fitting



Part number	Colour	Description
128 0 860 941	black	Carrier frame,
128 0 860 961	white	with safety glass,
128 0 860 951	silver grey	for colour filters, lenses and plastic film



Part number	Description
238 1 242 000	Honeycomb louvre, internal (factory fitted, not for retro-fitting), to avoid glare



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



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