



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

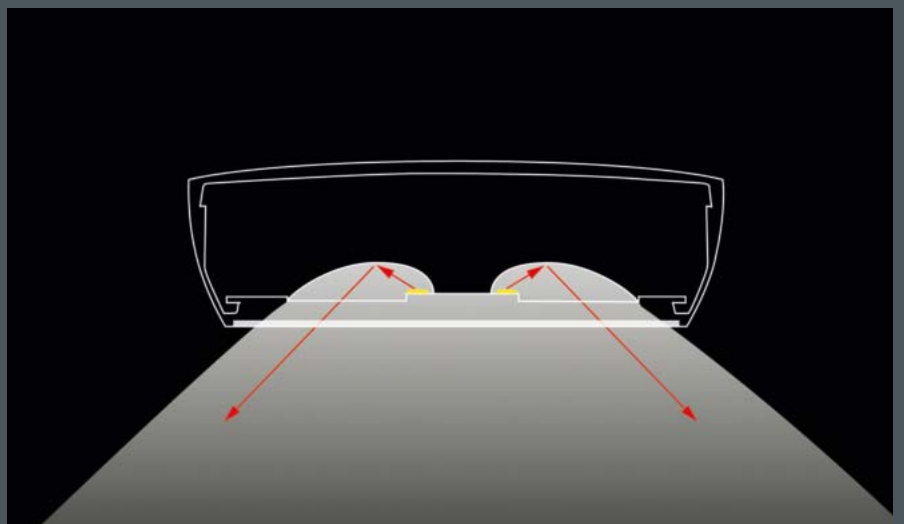


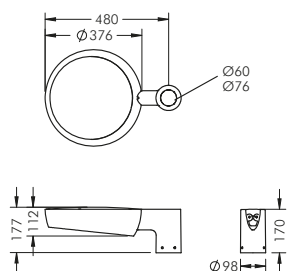
With dark sky compliant optics and perfect glare control Metaspace delivers the best light quality for humans and nocturnal animals.



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

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





Metaspace

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

Metaspace, asymmetrical beam

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

Metaspace, asymmetrical beam, High Output

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

Metaspace, asymmetrical wide beam

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

Metaspace, asymmetrical wide beam High Output

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

Metaspace, lateral wide beam

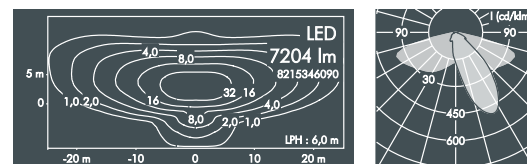
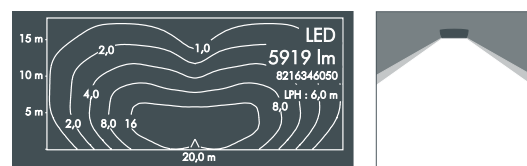
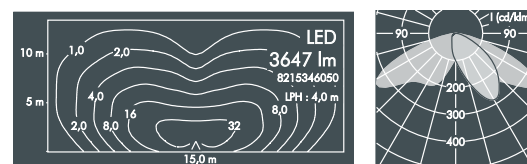
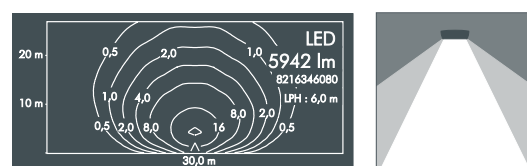
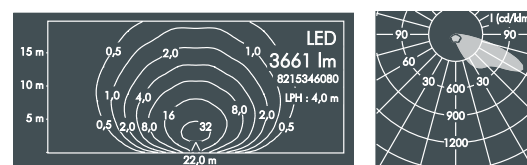
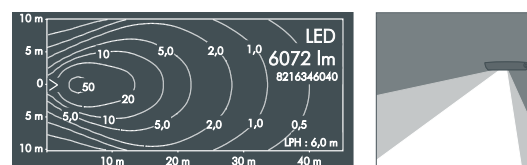
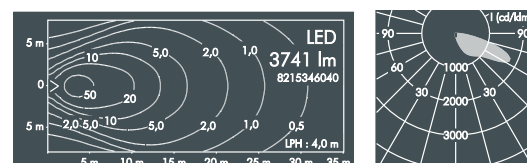
Part number*	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 215 346 059	black	5.1 kg	6 x LED module 6.3 W (38 W)	3647 lm	C 0 – 180 C 90 – 270
8 215 366 059	white				46° 142°
8 215 356 059	silver grey		warm white (3000 K)		

Metaspace, lateral wide beam, High Output

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

Metaspace, Street Optic (direct optic)

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



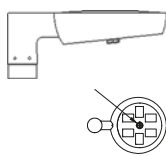
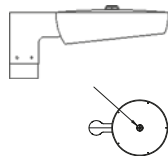
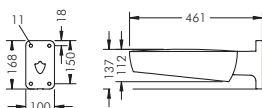
* Find more versions on page 5.

LED

Luminaires available

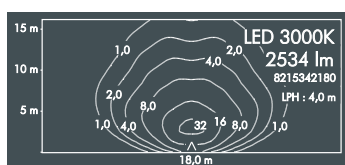
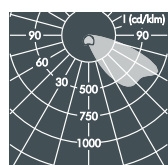
in 2200 K or other colour temperatures upon request



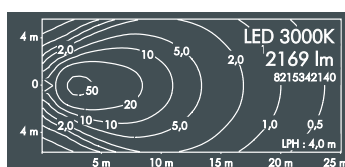
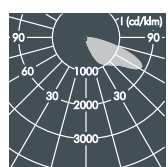


The luminaires can be equipped with a Zhaga-18 interface for communication and sensing on the top and at the bottom.

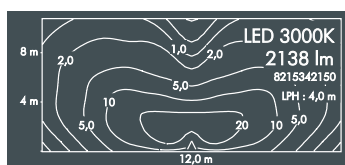
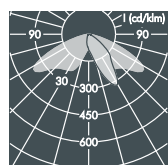
Part number	Description
. . . . 1	Luminaire for wall mounting
. . . 7	Protection class II luminaire
. . . 8	Luminaire in "High Output" version for protection class II
. 7 . . .	Luminaire with warm white LED module (2700 K)
. 1 . .	Dimmable luminaire (DALI)
. 3 . .	Luminaire with Zhaga-18 interface for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



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

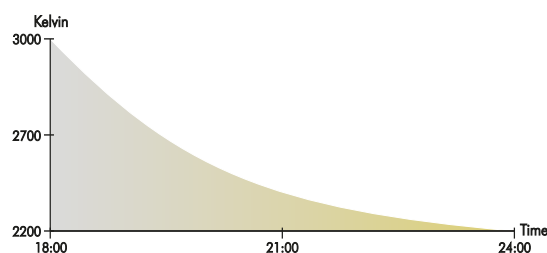


Metaspace, Adjustable White, asymmetrical beam					
Part number	Colour	Weight	Light source	Luminous flux	Main beam angle γ
8 215 342 149	black	5.1 kg	12 x LED warm white (2200 K) and 12 x LED warm white (3000 K) (max 27 W)	2017 lm to 2169 lm	63°
8 215 362 149	white				
8 215 352 149	silver grey				



Metaspace, Adjustable White, lateral wide beam					
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)
8 215 342 159	black	5.1 kg	12 x LED warm white (2200 K) and 12 x LED warm white (3000 K) (max 27 W)	1989 lm to 2138 lm	C 0 – 180
8 215 362 159	white				C 90 – 270
8 215 352 159	silver grey				

Metaspace Adjustable White



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



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



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



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