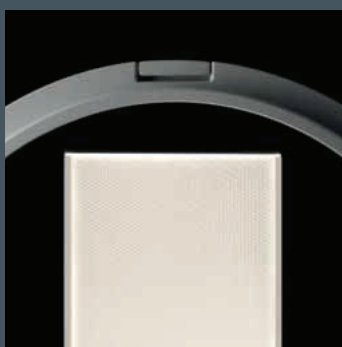




Ecoscape is a range of exterior LED luminaires for the illumination of open spaces, streets and paths. They are available in two sizes and wattages. The luminous output can be regulated either by external control systems or by programmable components which are integrated into the luminaires.

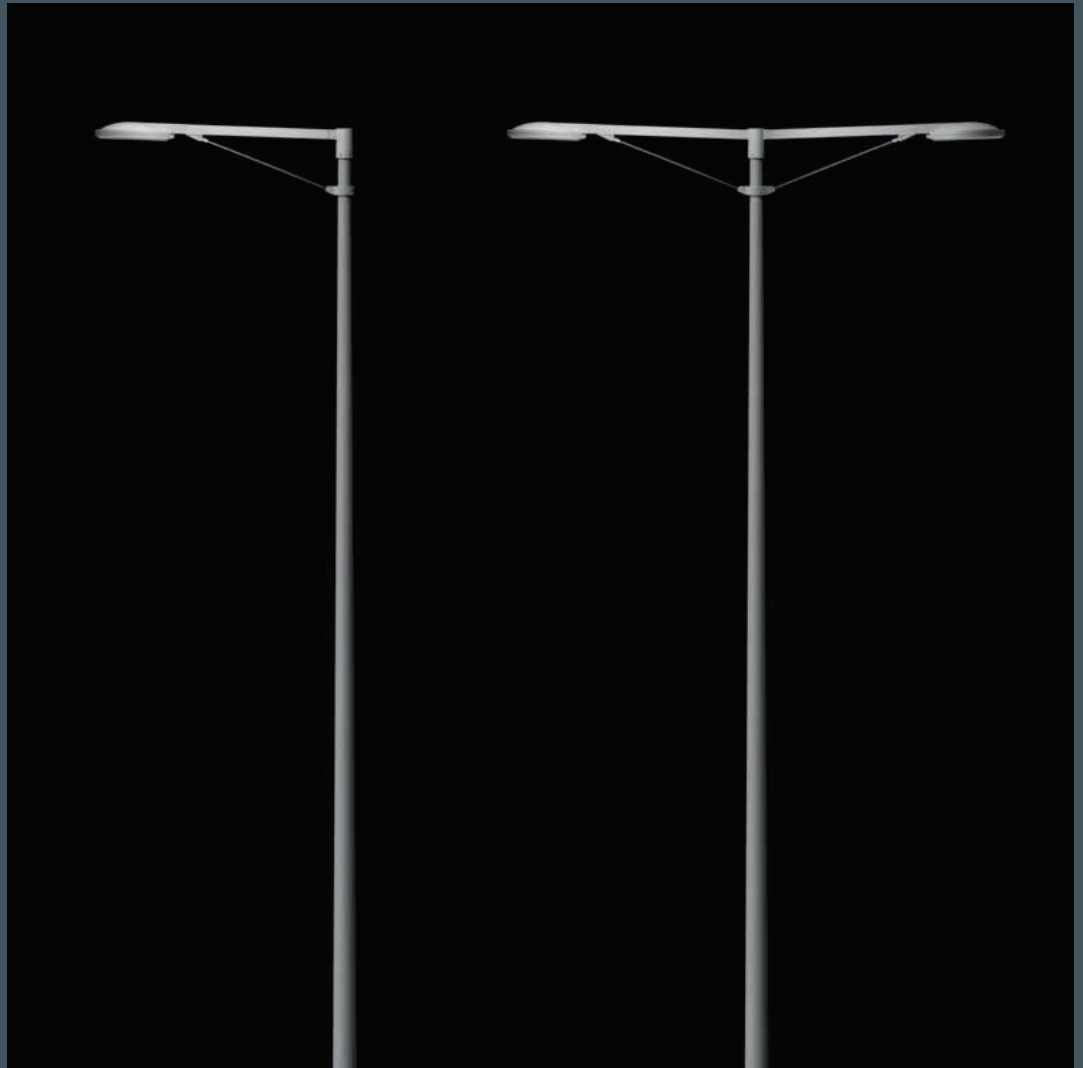
The modern design is timeless and maintenance free. There is no exterior detailing on the housing, such as cooling fins, which can trap dust and dirt. There is an exemplary range of pole or wall mounting accessories available for the Ecoscape series.

Design: Roy Fleetwood

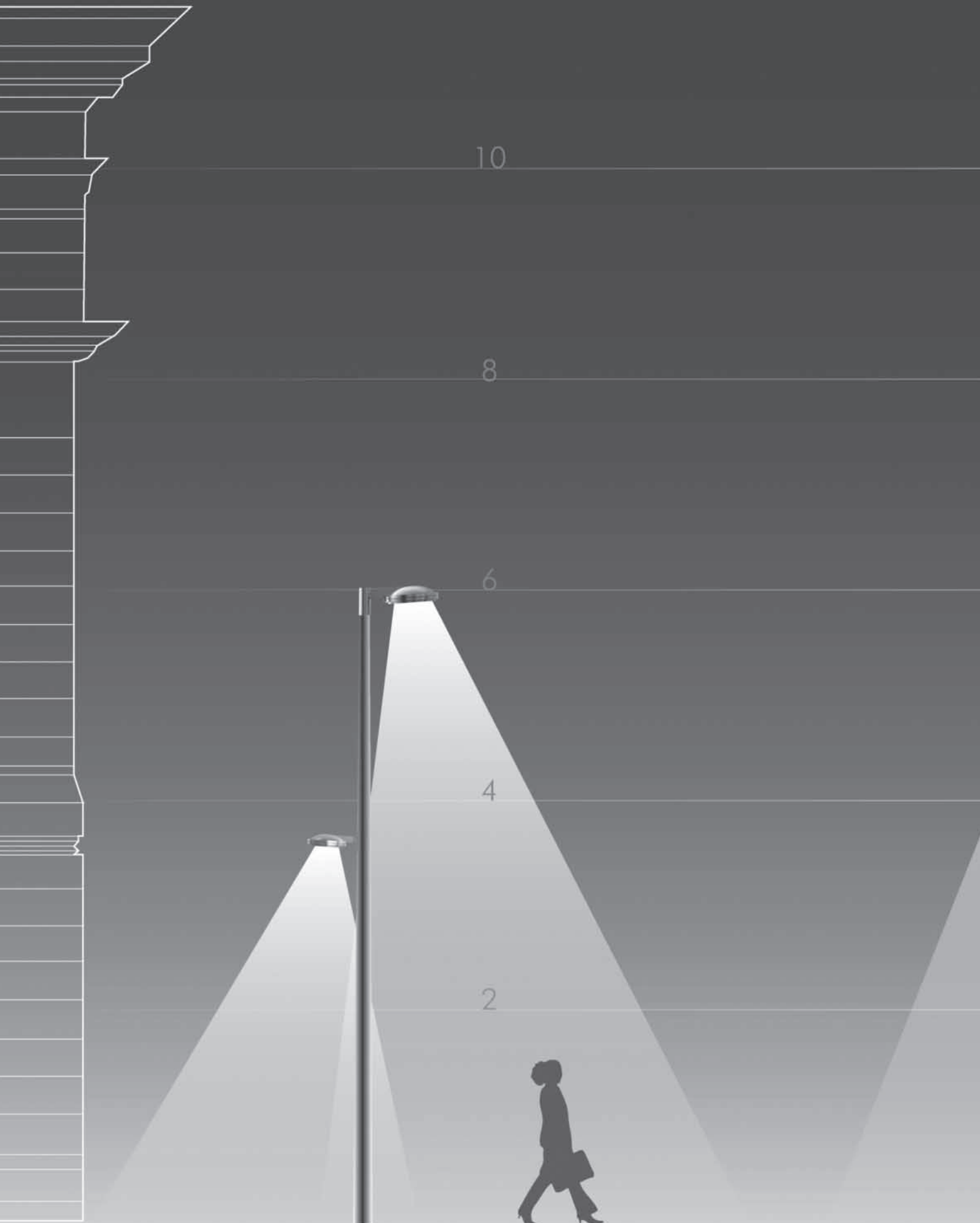


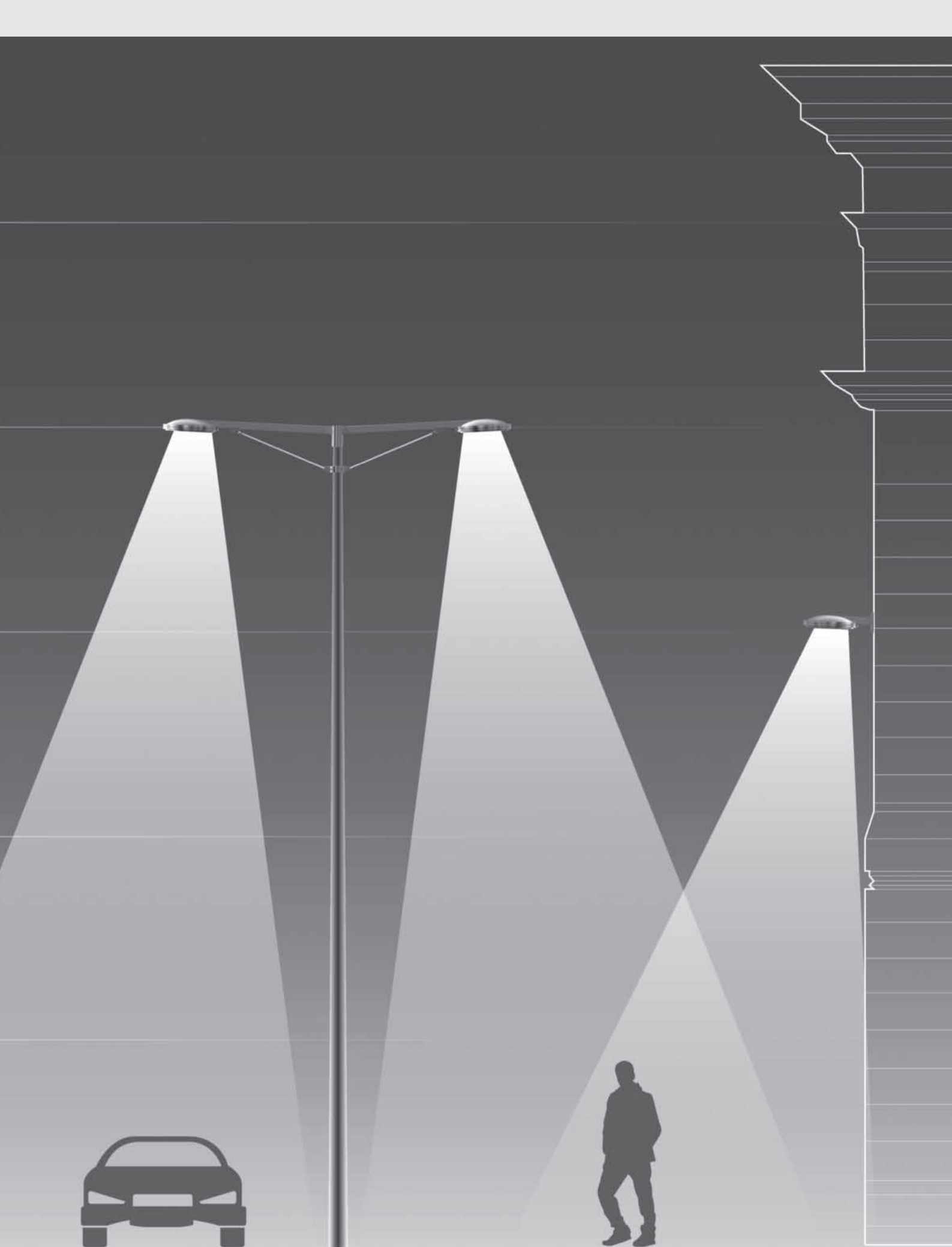
The Comfort Optic uses micro prisms to direct light in defined directions. Light diffraction and shielded LEDs make perfect glare control possible.

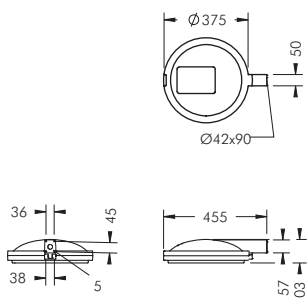
The range of accessories allows for different mounting possibilities and luminaire configurations.



Lilleeng Helsepark, Norway
Lighting design: Frizen Belysning







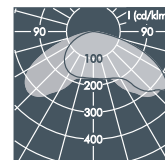
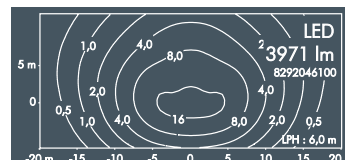
Ecoscape 1

With LED Prism module,
 integral temperature monitoring device,
 CRI: > 80, Colour tolerance: max. 2 SDCM
 Service life: L80/B10 > 50 000 h
 protection class I or II, IP67 $\diamond \blacktriangle \blacktriangle \blacktriangle$, IK09
 windage area AW 0.11 m²
 corrosion-resistant die cast aluminium housing AlSi12,
 polyester powder coated,
 all exterior steel parts are stainless steel,
 tempered, high transmission safety glass,
 silicon gasket, hinged frame,
 installation of luminaire using fixing accessories,
 cable entry: M20, with 8 m cable H07RN-F5G1,
 fixing via a 42 mm diameter borehole,
 integral programmable and
 DALI dimmable driver (AC/DC)

Ecoscape 1, Comfort Optic

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
					C 0 – 180	C 90 – 270
8 292 046 109	black	6.5 kg	1 x LED Prism module 55 W warm white (3000 K)	3971 lm	71°	139°
8 292 066 109	white					
8 292 056 109	silver grey					

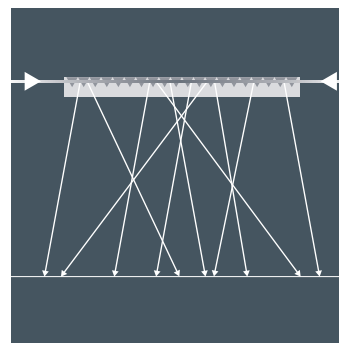
Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
					C 0 – 180	C 90 – 270
8 292 045 109	black	6.5 kg	1 x LED Prism module 55 W neutral white (4000 K)	4142 lm	71°	139°
8 292 065 109	white					
8 292 055 109	silver grey					



Part number	Description
. 1.	Luminaire safety class II

Accessories required for installation of luminaires – see pages 180-183.

The light emitted by linear LED modules is directed into a PMMA lens uncoupled by micro prisms in exactly defined directions. From the outside the LEDs are not visible. The Comfort Optic offers both high energy efficiency and optimal glare limitation by diffraction of the point of light.




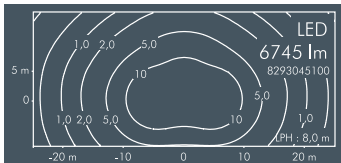
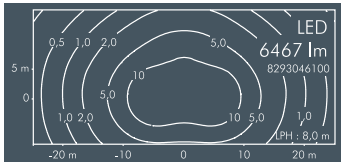
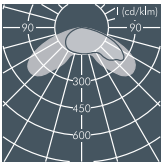
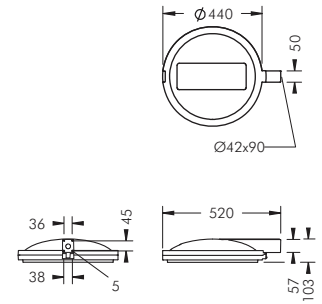
LED (see page 247)

Luminaires available in 2700 K and other colour temperatures upon request



Ecoscape 2

With LED Prism module,
 integral temperature monitoring device,
 CRI: > 80, Colour tolerance: max. 2 SDCM
 Service life: L80/B10 > 50 000 h
 protection class I or II, IP67 , IK09
 windage area AW 0.15 m²
 corrosion-resistant die cast aluminium housing AlSi12,
 polyester powder coated,
 all exterior steel parts are stainless steel,
 tempered, high transmission safety glass,
 silicon gasket, hinged frame,
 installation of luminaire using fixing accessories,
 cable entry: M20, with 8 m cable H07RN-F5G1,
 fixing via a 42 mm diameter borehole,
 integral programmable and
 DALI dimmable driver (AC/DC)



Ecoscape 2, Comfort Optic

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
					C 0 – 180	C 90 – 270
8 293 046 109	black	8.5 kg	1 x LED Prism module 90 W warm white (3000 K)	6467 lm	71°	139°
8 293 066 109	white					
8 293 056 109	silver grey					

Part number	Colour	Weight	Light source	Luminous flux	Beam angle γ (FWHM)	
					C 0 – 180	C 90 – 270
8 293 045 109	black	8.5 kg	1 x LED Prism module 90 W neutral white (4000 K)	6745 lm	71°	139°
8 293 065 109	white					
8 293 055 109	silver grey					

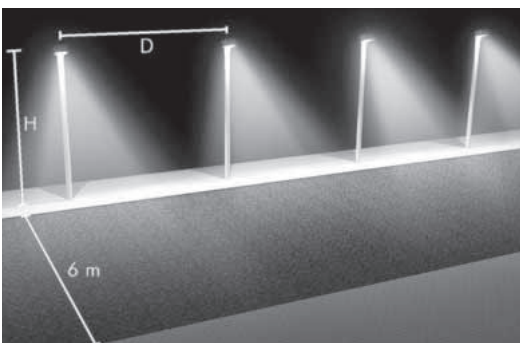
Part number	Description
.....1.	Luminaire safety class II

Accessories required for installation of luminaires - see pages 180-183.

Illumination examples (P3 according to DIN EN 13201-2)

	Ecoscape 1	Ecoscape 2
	Comfort Optic	Comfort Optic
H	6 m	8 m
D	25 m	34 m
D/H	4.2	4.25
Em	7.6 lx	7.7 lx
Emin/Em	0.34	0.37
TI*	7%	7%

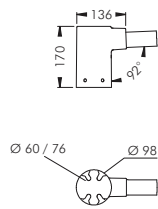
* TI: Threshold Increment (unit for measuring glare).
 A low TI value indicates a low glare factor.



LED (see page 247)

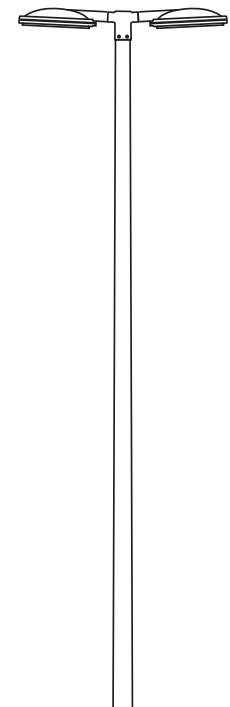
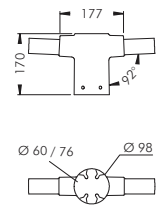
Luminaires available in 2700 K and other colour temperatures upon request





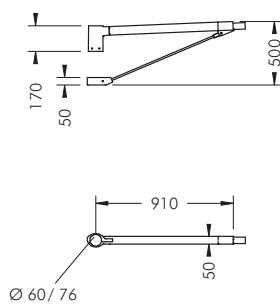
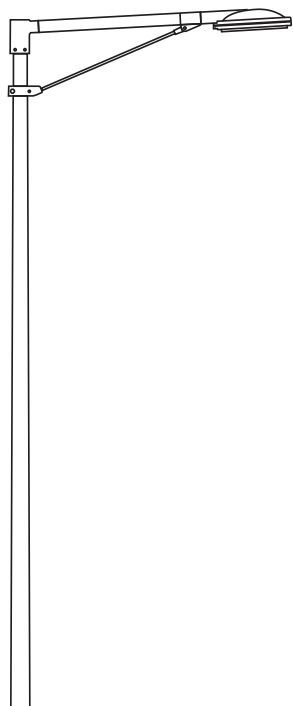
Pole top fitter for one luminaire

Part number	Colour	Description
122 0 281 940	black	Pole top fitter , aluminium, polyester powder coated, for pole Ø 60 - 76 mm
122 0 281 960	white	
122 0 281 950	silver grey	



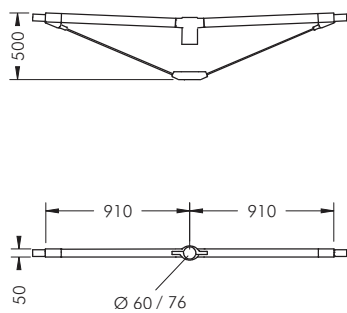
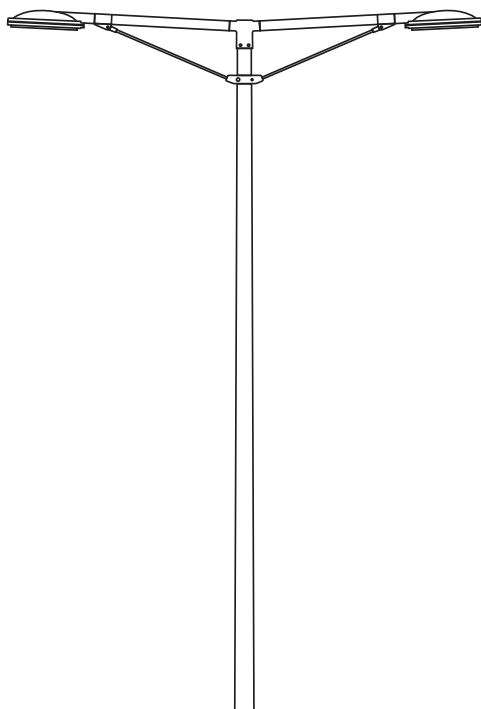
Pole top fitter for two luminaires

Part number	Colour	Description
122 0 282 940	black	Pole top fitter , aluminium, polyester powder coated, for pole Ø 60 - 76 mm
122 0 282 960	white	
122 0 282 950	silver grey	



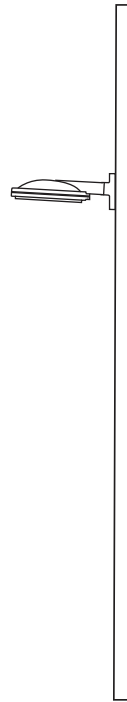
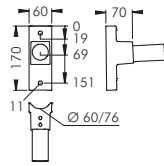
Pole outrigger for one luminaire

Part number	Colour	Description
122 0 291 940	black	Pole outrigger, 910 mm, aluminium, polyester powder coated, for pole Ø 60 mm
122 0 291 960	white	
122 0 291 950	silver grey	
122 0 293 940	black	Pole outrigger, 910 mm, aluminium, polyester powder coated, for pole Ø 76 mm
122 0 293 960	white	
122 0 293 950	silver grey	



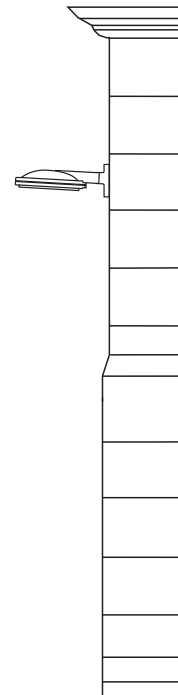
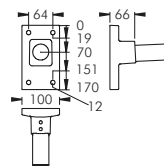
Pole outrigger for two luminaires

Part number	Colour	Description
122 0 292 940	black	Pole outrigger, 2 x 910 mm, aluminium, polyester powder coated, for pole Ø 60 mm
122 0 292 960	white	
122 0 292 950	silver grey	
122 0 294 940	black	Pole outrigger, 2 x 910 mm, aluminium, polyester powder coated, for pole Ø 76 mm
122 0 294 960	white	
122 0 294 950	silver grey	



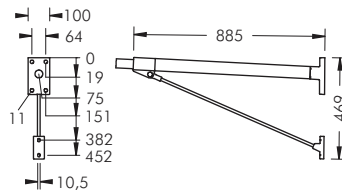
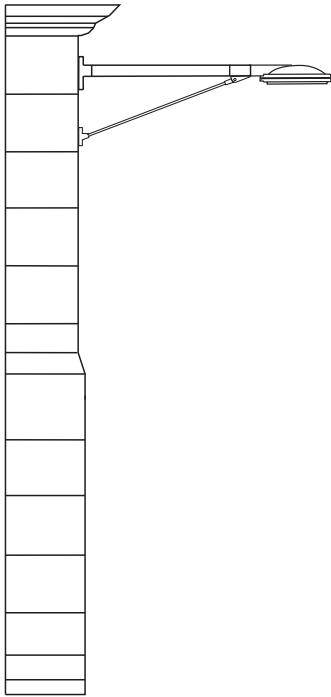
Pole adapter

Part number	Colour	Description
122 0 283 940	black	Pole adapter , aluminium, polyester powder coated, for poles Ø 60 - 76 mm
122 0 283 960	white	
122 0 283 950	silver grey	



Wall adapter

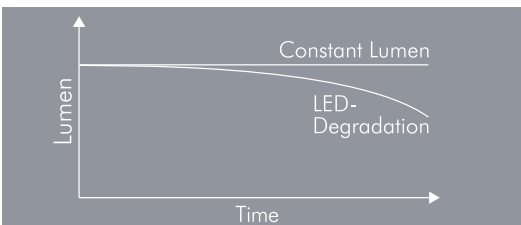
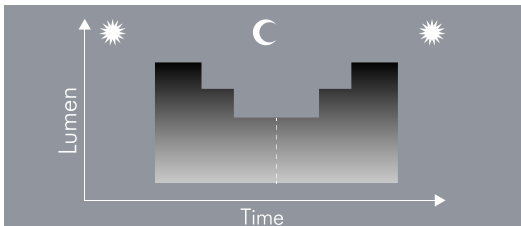
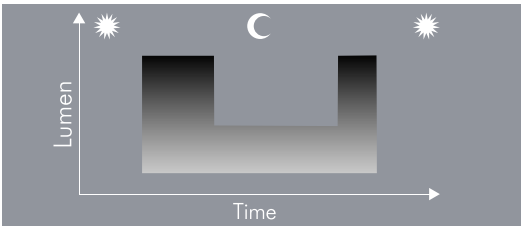
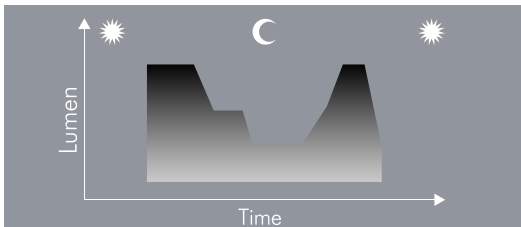
Part number	Colour	Description
122 0 284 940	black	Wall adapter , aluminium, polyester powder coated
122 0 284 960	white	
122 0 284 950	silver grey	



Wall outrigger

Part number	Colour	Description
122 0 285 940	black	Wall outrigger , 885 mm, aluminium, polyester powder coated
122 0 285 960	white	
122 0 285 950	silver grey	

Light control options



DALI

Two dimming profiles can be preset. The DALI protocol enables a bidirectional flow of information so that individual luminaires can be monitored and controlled. In a DALI dimming system light sensors and motion sensors can be integrated.

StepDIM

Similar to a half-night switch the luminous flux is reduced to a defined level by an additional control wire (switched phase). The dimming parameters can be individually defined by the use of a software with interface.

AstroDIM

The dimming profile can be activated without using a control wire. Significant energy savings can be achieved without any cost for additional wiring. In the course of a year the dimming intervals are adjusted to changing daylight hours. Two dimming levels can be preset, the dimming periods are determined by the overall turn-on time.

Constant Lumen Function

The luminous flux remains constant over a defined operating time. The light output decreases during the useful life through degradation of the LED. This effect is offset by the constant lumen function which increases the forward current with progressing operating time.