



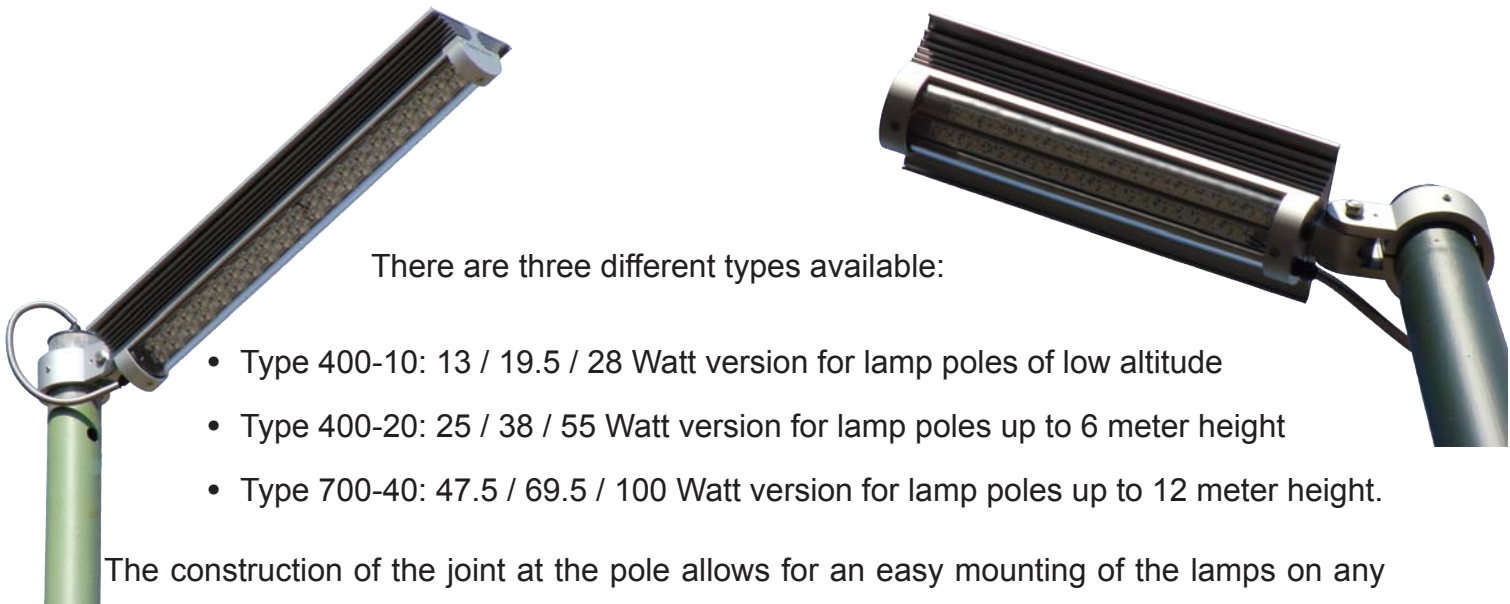
The ripple control experts

Swistec

The PROFILIGHT street lights have been developed, focusing specifically on economical and environmental aspects. Due to the functionality of the heat sink's enclosure, the production costs have been reduced. In addition, this construction best solved the critical aspect of any LED-lamp construction: the heat dissipation.

All PROFILIGHT lamps are dimmable. Thanks to the integrated ripple-control receiver, the lamps can easily be dimmed via the existing ripple-control system.

As usual, you profit from the inexpensive, reliable Swistec-technology.



There are three different types available:

- Type 400-10: 13 / 19.5 / 28 Watt version for lamp poles of low altitude
- Type 400-20: 25 / 38 / 55 Watt version for lamp poles up to 6 meter height
- Type 700-40: 47.5 / 69.5 / 100 Watt version for lamp poles up to 12 meter height.

The construction of the joint at the pole allows for an easy mounting of the lamps on any type of pole.

The lamps come with LEDs of natural white colour temperature: 3,700K.

Optionally, they can be delivered with LEDs of cool white (daylight) colour temperature: 6,500K. When using the cool white LEDs, an additional 20% energy cost reduction can be achieved due to their high effectiveness.

Attractive financing

In order to enable communes and operators to quickly benefit from energy savings without previous investment costs, an attractive financing model of how to finance street lights has been drawn up in cooperation with leasing companies.

These leasing companies authorized us to offer LED-street lights to communes and operators of street lights free of investment and installation costs, independent of the number of street lights that shall be installed. In return, it is expected that half of the achieved cost savings will be used for the financing. Consequently, a commune can make use of half of the savings right from the first day after the installation.

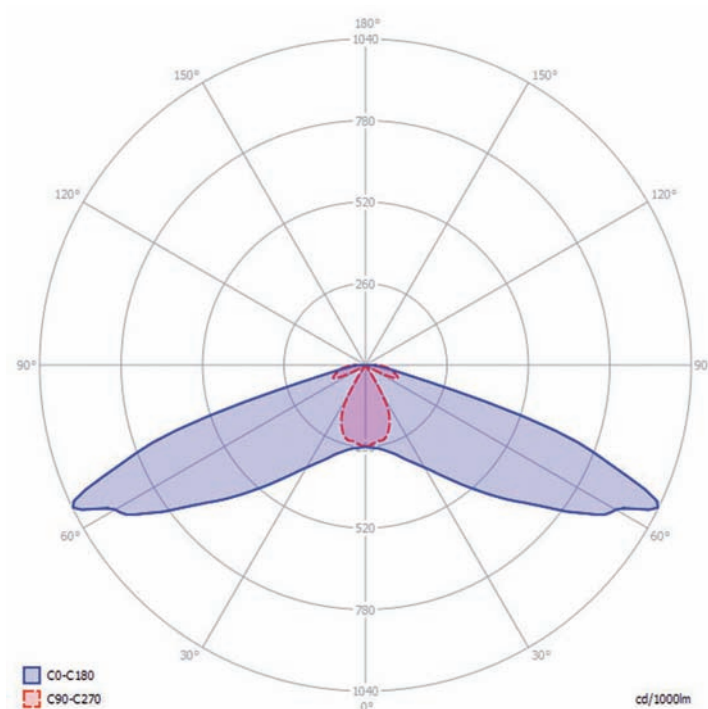
We are prepared to proof the lamps' efficiency in a test installation of up to 10 street lights. We simply ask for a cost participation of 300 € + installation costs per lamp. After the test phase, the lamps will become property of the operator.



Light distribution

The special optics distribute the light in such a way that the area which is illuminated is as wide as possible and as homogeneously illuminated as possible.

This requires more light for wider angles than for smaller angles. As a consequence, the light right below the street light is not that bright. However, the areas right between the street lights are provided with sufficient light. The radiation characteristic of these optics is called „batwing characteristic“ since the radiation diagram resembles the wings of a bat.

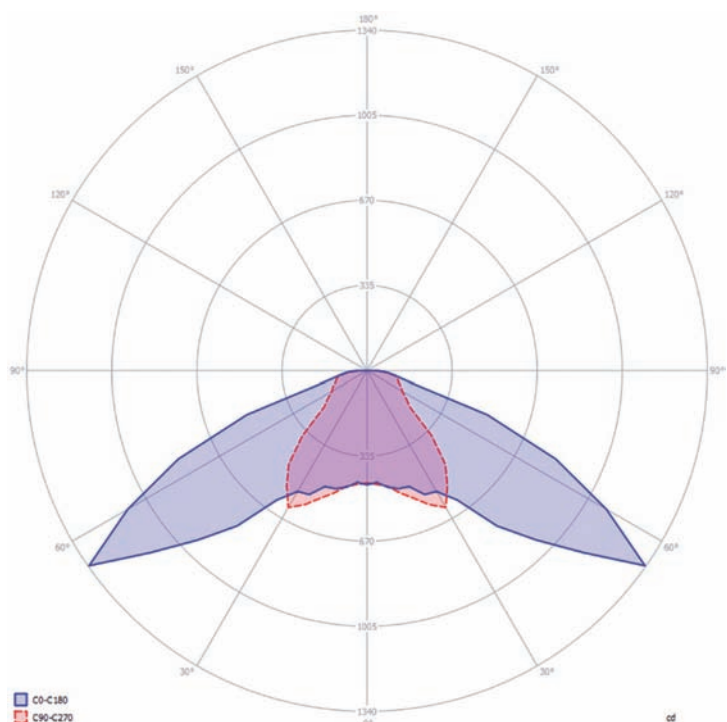


Light distribution with special optics for streets

When looking at a diagram concerning light distribution with special optics for streets, the previously described light distribution is very pronounced. This allows the use of a wider pole distance.

Light distribution with special optics for squares and intersections

In contrast, the light distribution with special optics for squares and intersections the relation between width and height is much bigger.





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Technical Data:

Types	400-10	400-20	700-40
Number of LEDs (SMD type)	10	20	40
Power input (W)	13 / 19.5 / 28	28 / 38 / 55	47.5 / 69.5 / 100
LED nominal power (W)	11 / 17 / 24	22 / 33.5 / 48.5	42 / 62 / 89
LED current setting (mA)	350 / 500 / 700		
Luminous flux (lm) initial after 50,000 h	1,200 / 1,600 / 2,100 1,025 / 1,400 / 1,850	2,350 / 3,200 / 4,200 2,050 / 2,800 / 3,700	4,700 / 6,400 / 8,400 4,100 / 5,600 / 7,400
Dissipation loss of drivers (W) (initial and after 50,000 h)	1.5 / 2 / 3	2.75 / 3.75 / 5.5	5.5 / 7.5 / 11
Dimensions L x H X W (mm)	400 x 88 x 160	400 x 88 x 160	700 x 88 x 160
Height of pole (m)	for low altitudes	4 à 6	8 à 12
Work angle (adjustable)	de 0° à 180°		
Voltage supply	220 - 240 V		
Lifetime of LEDs	B10 L70*, > 60.000 h * value at 10% LED failure and 70% initial		
Junction temperature at Ta 25°C	49 / 62 / 78°C		
Colour rendering index (CRI)	85		
Protection class	IP65		
Light distribution	Direct lense (multilayer)		
Electronic ballast	luminance adjustable in 3 steps / phase shedding / dimmable		
Illuminance (Lux)	upon request; depending on the object to be lit		
Standards / Certificated			
I. Lamp, general safety standard	IEC/EN 60598-1 et IEC/EN 60598-2-3		
II. LED-module, safety standard	IEC/EN 62031		
III. LED-module, photobiological safety standard	IEC/EN 62471		
IV. Ballast	IEC/EN 61347-2-13		
CE Compliance	The products in this brochure comply with the requirements of the currently valid European and national directives.		
Certification	ENEC-Cert. 2137401.01		

All values in this table refer to a colour temperature of 3,700K.

Order information:

With ripple-control receiver:

Item-No. PROFILIGHT-NW-400-10-SRE	natural white	3,700K, 400mm
Item-No. PROFILIGHT-NW-400-20-SRE	natural white	3,700K, 400mm
Item-No. PROFILIGHT-NW-700-40-SRE	natural white	3,700K, 700mm

Without ripple-control receiver:

Item-No. PROFILIGHT-NW-400-10	natural white	3,700K, 400mm
Item-No. PROFILIGHT-NW-400-20	natural white	3,700K, 400mm
Item-No. PROFILIGHT-NW-700-40	natural white	3,700K, 700mm

The lamp is supplied with a light color of 3,700K (natural white).

Upon request it can also be provided with a light color of 6,500K (cool white).

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