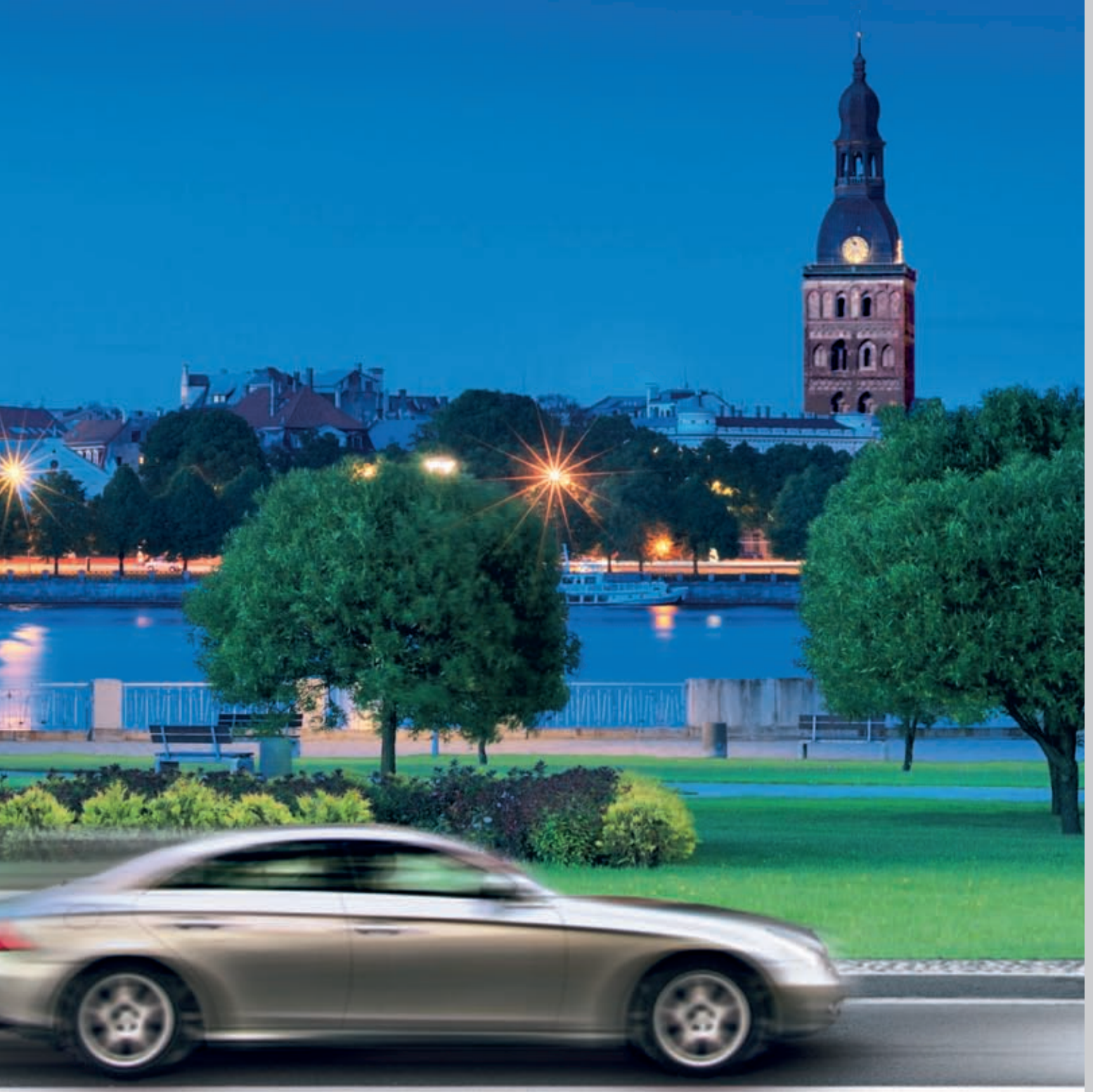




**Sella** represents the latest generation of LED street lamps designed to fit the new light sources and the most advanced lighting control and management systems.

Its aerodynamic housing in die-cast aluminium offers very little resistance to wind with its cooling fins specifically studied to allow optimal heat dissipation and efficient LED operation.

The many luminous distributions perfectly meet urban lighting needs and enable the designer to find the perfect solution for any setting.



**Advantages in installing new projects:**

using Sella LED lights instead of high-pressure sodium luminaires enables you to obtain the same lighting results, reducing power and consumptions by 40%-50% depending on the type of road.

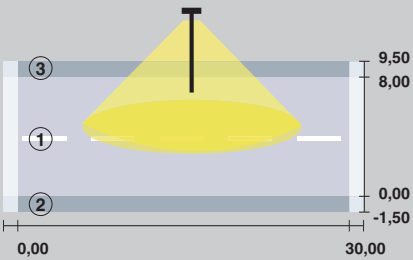
Compared to high pressure sodium, LED technology will significantly improve both the quality of the light (which is white and not yellow) and the colour rendering; moreover regular maintenance is no longer needed.

Thanks to high performance LED optics (reflector + auxiliary lens), Sella LED fixtures can be used along roads and keeping the same distance between poles, like for high-pressure sodium lamps. In this way you can save energy without increasing the number of light fixtures.

**Example of a lighting system:**

**3291 Sella 1 - 16 LED**

**Tot. power consumption @700mA P=84W**



Area of evaluation: roadway ①	
Length: 30m - Width 8m	
Grid	10 x 6 points
Street elements	roadway 1
Road surface	C2, q0: 0,070
Selected lighting class	ME3a

Lighting design results	L <sub>m</sub> [cd/m <sup>2</sup> ]	U <sub>0</sub>	UI	TI(%)	SR
Obtained values	1,28	0,44	0,70	10	0,52
Target values	≥1,00	≥0,40	≥0,70	≤15	≥0,50
Compliant / non-compliant	✓	✓	✓	✓	✓

Area of evaluation: pavement ②	
Length: 30m - Width 1,5m	
Grid	10 x 3 points
Street elements	pavement 2
Selected lighting class	S1

Lighting design results	E <sub>m</sub> [lx]	E <sub>min</sub> [lx]
Obtained values	19,24	9,59
Target values	≥15,00	≥5,00
Compliant / non-compliant	✓	✓

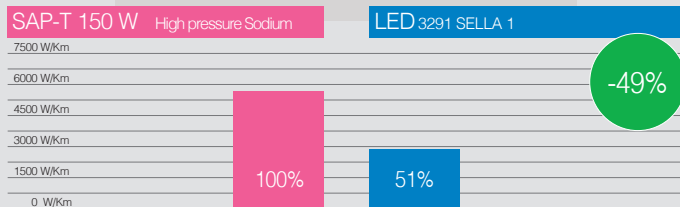
Area of evaluation: pavement ③	
Length: 30m - Width 1,5m	
Grid	10 x 3 points
Street elements	pavement 3
Selected lighting class	S2

Lighting design results	E <sub>m</sub> [lx]	E <sub>min</sub> [lx]
Obtained values	11,37	7,02
Target values	≥10,00	≥3,00
Compliant / non-compliant	✓	✓

**Energy efficiency:** consuming less energy without giving up the benefits of technological progress. This is the great challenge for the future of our planet. This is because greater energy efficiency means lower consumption without compromising light quality. Being able to distinguish colours and perceive clear details when transiting on urban streets help improve the safety of drivers and pedestrians. In addition, lights that mimic daylight will improve the perception of faces and increase our sense of safety. Thanks to white LED light, cities are safer and more liveable even after dusk.

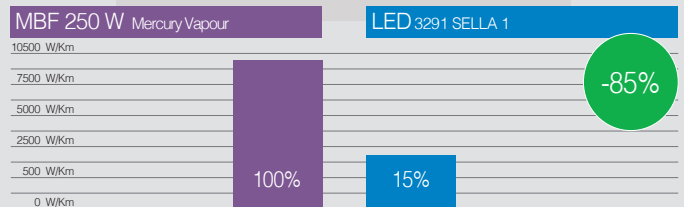
	width	H	distance	Cd/m <sup>2</sup>	P(W)	W/Km
SAP-T 150 W	8 m	8 m	30 m	1,25	168	5600
SELLA 1 3291 (700mA)	8 m	8 m	30 m	1,28	85	2833

Comparison of consumptions on a ME3a road (C2 type of asphalt):

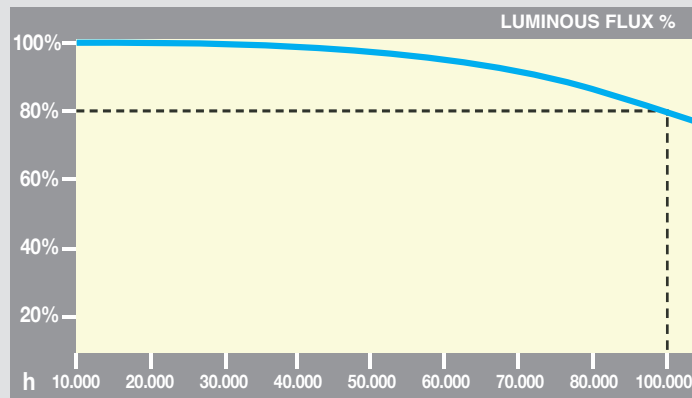


	width	H	distance	Cd/m <sup>2</sup>	P(W)	W/Km
MBF 250 W	8 m	8 m	27 m	0,75	275	10185
SELLA 1 3291 (350mA)	8 m	8 m	27 m	0,76	41	1519

Comparison of consumptions on a ME4b road (C2 type of asphalt):



**Life expectancy:** LEDs, unlike traditional sources, will not turn off suddenly when their working life ends, but will slowly fade their initial luminous flux until they turn off completely. In fact, LEDs do not break (except for manufacturing damages) but decay gradually and constantly. The decrease of LED flux is defined by the working life and is represented by the L80 mark (see chart), which means that the flux is kept up to 80%. The "B" letter followed by a number ranging between 10 and 50 indicates the quality of the fixture and defines the LED percentage that doesn't keep the declared characteristics when it reaches 100,000 working hours.



LED: LUMINOUS FLUX MAINTENANCE (including end-of-life failure)					
Sella 1: art. 3290 - 3291		L80B10 @ta+25°C	L80B10 @ta+50°C	L90B10 @ta+25°C	L90B10 @ta+50°C
n.LED	W				
8	39 (700mA)	>100.000h	>100.000h	70.000h	50.000h
16	78 (700mA)				
24	118 (700mA)				



**Housing and cover:** in die-cast aluminium and designed with a very small surface exposed to wind. Cooling fins are integrated into the cover.

**Heat sink:** the heat dissipation system is specially designed and made to allow the operation of the LED lights with temperatures ensuring excellent performance/efficiency and durability.

**Pole connection:** in die-cast aluminium and with gaskets to secure the frame according to different inclinations. Adjustable ranges: between 0° and 20° for side mount; and between 0° and 20° for mast-top mounting. Inclination pace: 5°. Suited for poles with a diameter 46-76.


**Diffuser:** extra-clear, tempered glass, 4 mm thick, resistant to thermal shock and impacts (UNI-EN12150-1: 2001).

**Photometric performance:** designed with an optical system capable of controlling the potential glare created by the growing light intensity of LEDs while achieving high photometric performance. This allows the application in street lighting schemes where there is a significant distance between the poles. In these cases, greater light control is reached with the optics equipped with auxiliary lens.

**Coating:** polyester resin based and UV-stabilised powder paint, resistant to corrosion and saline environments.

The SELLA luminaire **is declared** to have passed the 2000 hours of salt corrosion resistance test in accordance with ASTM B 117 standard and the 2000 hours of UV condensation test in accordance with the ASTM G 154 standard.

**Standard supply:** double insulation switch that cuts off electricity when the cover is opened. Complete with quick connection. With dedicated electronic device to protect the LED module.

 Electronic safety device to protect the LED module and the related ballast compliant with EN 61547:

- **Class 2:** protection up to 10KV (on request).



The products of the Sella 1 family are compliant with all applicable tests (third-party certification) pursuant to standard **ANSI C136.31: Street Lighting – Luminaire Vibration.**

- Test level: 3.0G Level 2 for bridge/overpass applications.



**Low Flicker:** product with a very low flicker; uniform light for greater eye protection.

**On request:**



with surface coating resistant to acetic acid salt spray tests pursuant to standard UNI EN ISO 9227 "Corrosion Tests in Artificial Atmosphere".

**Energy-saving:**

using a lower current will improve the efficiency of fixtures and therefore increase energy savings, whilst a higher current will result in a higher light flux so that you can reduce the number of fixtures.

	Power supply	n.LED	W	ølm
<b>On request: Sella 1 art. 3290 - 3291</b>	350mA	8	19	3000lm
		16	38	6000lm
		24	57	9000lm
	Power supply	n.LED	W	ølm
<b>On request: Sella 1 art. 3290 - 3291</b>	530mA	8	29	4150lm
		16	59	8300lm
		24	88	12400lm

**What is a smart city?**

A smart city is a city where there is a better quality of life and where public spaces can help citizens achieve their full potential and move more freely, while saving time and respecting the environment.

The intelligence of a «Smart City» is a distributed, shared, horizontal and social intelligence. It is an intelligence that promotes the participation of citizens and the organization of the city towards a greater optimization of resources and results. Energy consumption, public resource use and time are all optimized.

With the Web and the new technologies, access to services is easier and public spaces can be organized to favour mobility, save time and turn our cities smarter.

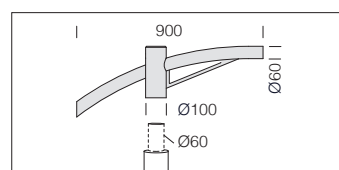
Remote management systems make objects more intelligent and recognizable, so that they can communicate data and provide access to aggregated information.

Thanks to a more efficient use of the Web, everything within a city (urban fittings, public buildings, monuments, etc.) can play an active role and become collectors and distributors of information about traffic, energy consumption, services and assistance to citizens, cultural and touristic attractions and much more.

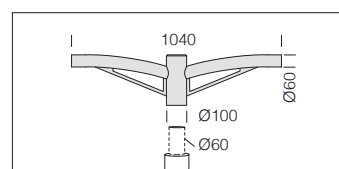
**Table for the various options for managing the supply point**

1-10V dimming	Virtual midnight	PLC remote control	Wi-Fi remote control (to be agreed upon)
Adjustment range from 10%-100% with 1-10V	Système autonome avec réduction du flux et surge protector 6/10 KV	Point-to-point and system management and diagnosis system	Point-to-point and system management and diagnosis system with Wi-Fi system
Ordered with <b>sub-code -12</b>	Ordered with <b>sub-code -30</b>	Ordered with <b>sub-code -0078</b>	<b>on request</b>

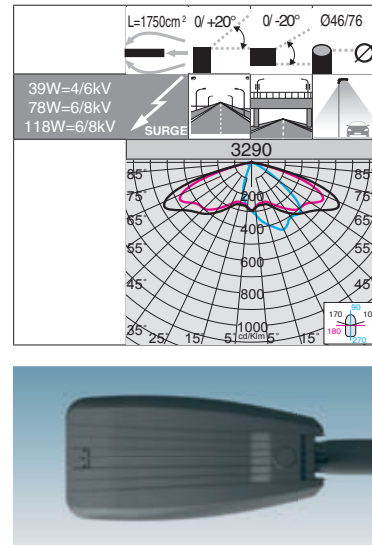
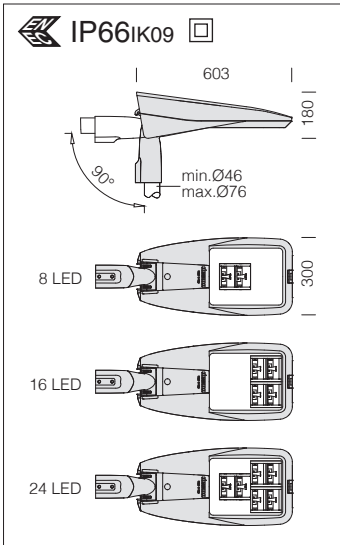


**acc. 504 single arm**

s. silver	991262-00
graphite	991263-00
Suited for poles with a diameter 60mm.	

**acc. 508 double arm**

s. silver	991266-00
graphite	991267-00
Suited for poles with a diameter 60mm.	

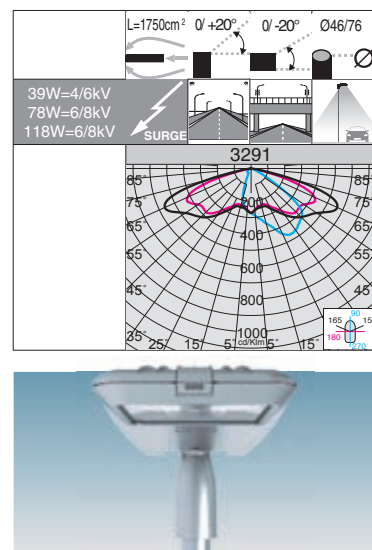
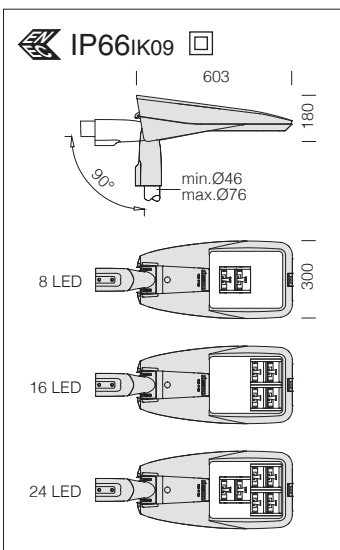


**Optics:** in aluminium coated with very high purity (99.99%) silver using physical vapour deposition (PVD).

**LED:** Power factor  $\geq 0.92$ .  
Luminous flux maintenance 80%:  
>100.000h (L80B10).

3290 Sella 1 - ST					
wattage (700mA)		CLD CELL		W	LED (Tj=85°C)
colour	weight	code			K - ølm 700mA - CRI
LED	7.20	s. silver	330603-00	39	4000K - 5420lm - CRI 70
		graphite	330600-00		
LED	7.20	s. silver	330604-00	78	4000K - 10840lm - CRI 70
		graphite	330601-00		
LED	7.20	s. silver	330605-00	118	4000K - 16260lm - CRI 70
		graphite	330602-00		

**On request:** possibility to control each individual light point (see table on p. 111).

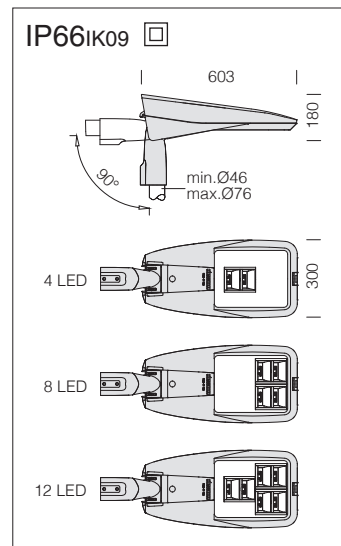
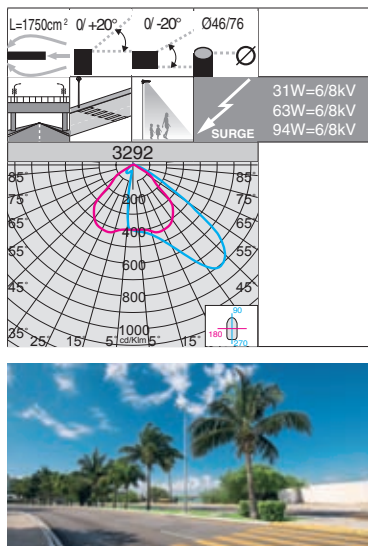


**Optics:** in aluminium coated with very high purity (99.99%) silver using physical vapour deposition (PVD).

**LED:** Power factor  $\geq 0.92$ .  
Luminous flux maintenance 80%:  
>100.000h (L80B10).

3291 Sella 1 - STWB					
wattage (700mA)		CLD CELL		W	LED (Tj=85°C)
colour	weight	code			K - ølm 700mA - CRI
LED	7.20	s. silver	330613-00	39	4000K - 5420lm - CRI 70
		graphite	330610-00		
LED	7.20	s. silver	330614-00	78	4000K - 10840lm - CRI 70
		graphite	330611-00		
LED	7.20	s. silver	330615-00	118	4000K - 16260lm - CRI 70
		graphite	330612-00		

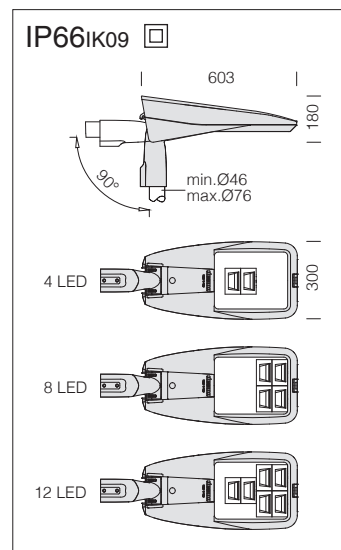
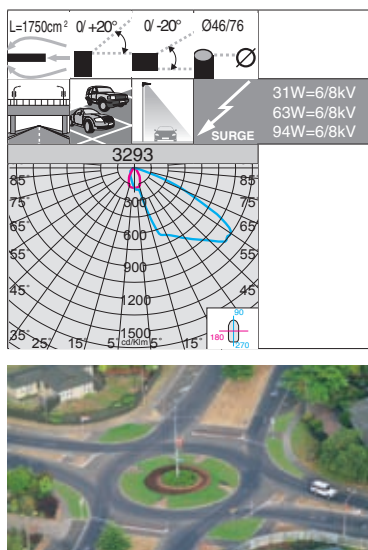
**On request:** possibility to control each individual light point (see table on p. 111).



3292 Sella 1 - asymmetric 45°					
		CLD CELL			LED (Tj=85°C)
wattage (700mA)	colour	weight	code	W	K - ølm 700mA - CRI
LED	s. silver	7.20	330664-00	31	4000K - 4300lm - CRI 70
	graphite		330660-00		
LED	s. silver	7.20	330665-00	63	4000K - 8640lm - CRI 70
	graphite		330661-00		
LED	s. silver	7.20	330666-00	94	4000K - 12960lm - CRI 70
	graphite		330662-00		

**On request:** possibility to control each individual light point (see table on p. 111).

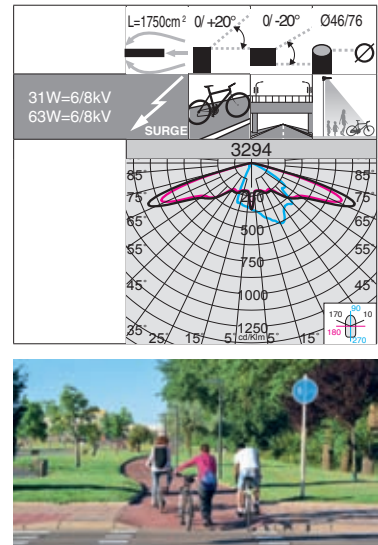
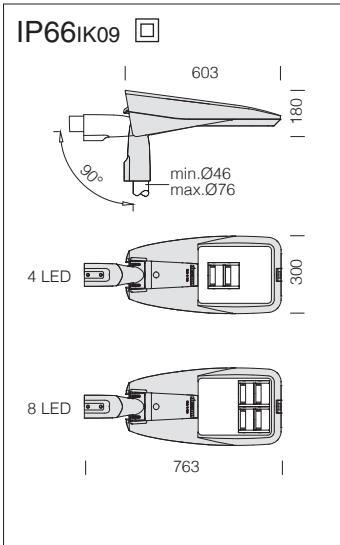
**Optics:** in aluminium coated with very high purity (99.99%) silver using physical vapour deposition (PVD).  
**LED:** Power factor ≥0.92. Luminous flux maintenance 80%: 80.000h (L80B10).



3293 Sella 1 - asymmetric 60°					
		CLD CELL			LED (Tj=85°C)
wattage (700mA)	colour	weight	code	W	K - ølm 700mA - CRI
LED	s. silver	7.20	330684-00	31	4000K - 4300lm - CRI 70
	graphite		330680-00		
LED	s. silver	7.20	330685-00	63	4000K - 8640lm - CRI 70
	graphite		330681-00		
LED	s. silver	7.20	330686-00	94	4000K - 12960lm - CRI 70
	graphite		330682-00		

**On request:** possibility to control each individual light point (see table on p. 111).

**Optics:** in aluminium coated with very high purity (99.99%) silver using physical vapour deposition (PVD).  
**LED:** Power factor ≥0.92. Luminous flux maintenance 80%: 80.000h (L80B10).

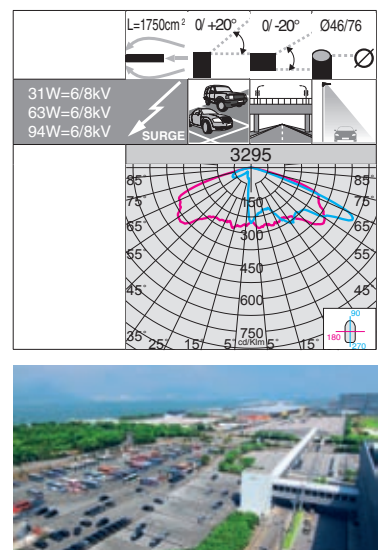
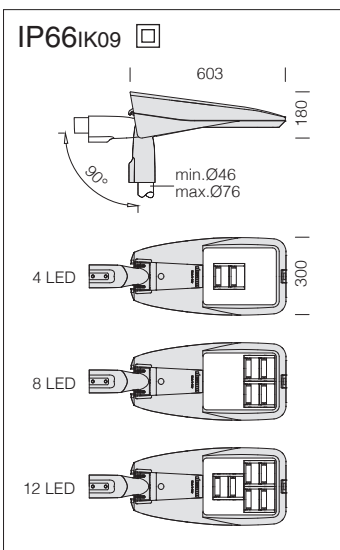


**Optics:** in aluminium coated with very high purity (99.99%) silver using physical vapour deposition (PVD).

**LED:** Power factor  $\geq 0.92$ .  
Luminous flux maintenance 80%: 80.000h (L80B10).

3294 Sella 1 - cycleways					
		CLD CELL		W	LED (Tj=85°C)
wattage (700mA)	colour	weight	code		K - ø1m 700mA - CRI
<b>LED</b>	s. silver	7.20	330702	<b>31</b>	4000K - 3760lm - CRI 70
	graphite		330700		
<b>LED</b>	s. silver	7.20	330703	<b>63</b>	4000K - 7520lm - CRI 70
	graphite		330701		

**On request:** possibility to control each individual light point (see table on p. 111).



**Optics:** in aluminium coated with very high purity (99.99%) silver using physical vapour deposition (PVD).

**LED:** Power factor  $\geq 0.92$ .  
Luminous flux maintenance 80%: 80.000h (L80B10).

3295 Sella 1 - large areas					
		CLD CELL		W	LED (Tj=85°C)
wattage (700mA)	colour	weight	code		K - ø1m 700mA - CRI
<b>LED</b>	s. silver	7.20	330724-00	<b>31</b>	4000K - 4300lm - CRI 70
	graphite		330720-00		
<b>LED</b>	s. silver	7.20	330725-00	<b>63</b>	4000K - 8640lm - CRI 70
	graphite		330721-00		
<b>LED</b>	s. silver	7.20	330726-00	<b>94</b>	4000K - 12960lm - CRI 70
	graphite		330722-00		

**On request:** possibility to control each individual light point (see table on p. 111).

