



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).

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).

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

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, 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.

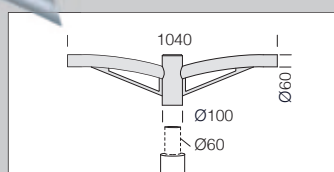
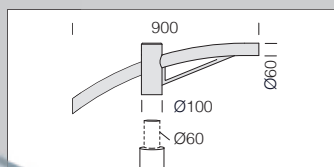
LED: LUMINOUS FLUX MAINTENANCE
(including end-of-life failure)

Sella 2		L80B10 @ta+25°C	L80B10 @ta+50°C	L90B10 @ta+25°C	L90B10 @ta+50°C
n.LED	W				
32	157 (700mA)	>100.000h	>100.000h	70.000h	50.000h
40	196 (700mA)	>100.000h	>100.000h	70.000h	50.000h
48	235 (700mA)	>100.000h	>100.000h	60.000h	40.000h

On request:



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

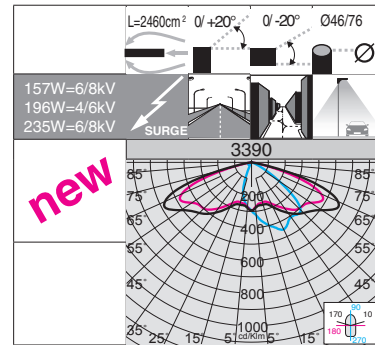
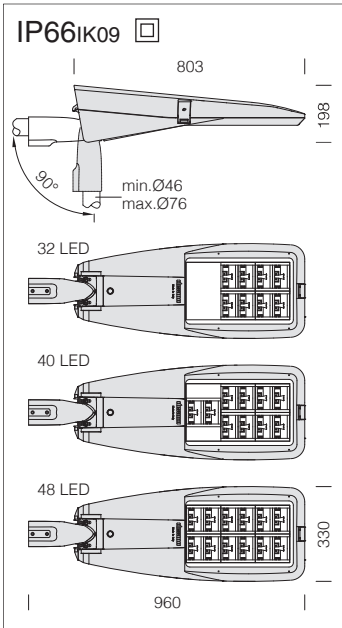


acc. 504 single arm

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.	

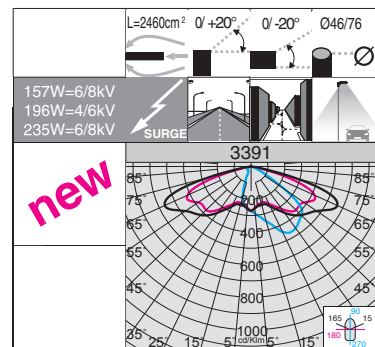
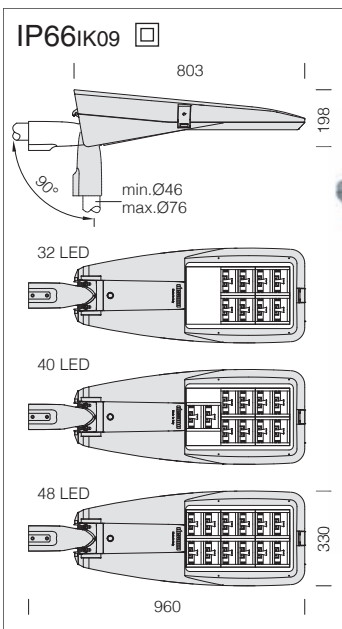


Optics: in aluminium coated with very high purity (99.99%) silver using physical vapour deposition (PVD).

LED: Power factor ≥ 0.92 .
Luminous flux maintenance 80%:
>100.000h (L80B10).

3390 Sella 2 - ST				
		CLD CELL		LED (Tj=85°C)
wattage (700mA)	colour	weight	code	W K - ølm 700mA - CRI
LED	s. silver	11.00	330803-00	157 4000K - 22880lm - CRI 70
	graphite		330800-00	
LED	s. silver	11.00	330804-00	196 4000K - 28600lm - CRI 70
	graphite		330801-00	
LED	s. silver	11.00	330805-00	235 4000K - 34320lm - CRI 70
	graphite		330802-00	

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%:
>100.000h (L80B10).

3391 Sella 2 - STWB				
		CLD CELL		LED (Tj=85°C)
wattage (700mA)	colour	weight	code	W K - ølm 700mA - CRI
LED	s. silver	11.00	330813-00	157 4000K - 22880lm - CRI 70
	graphite		330810-00	
LED	s. silver	11.00	330814-00	196 4000K - 28600lm - CRI 70
	graphite		330811-00	
LED	s. silver	11.00	330815-00	235 4000K - 34320lm - CRI 70
	graphite		330812-00	

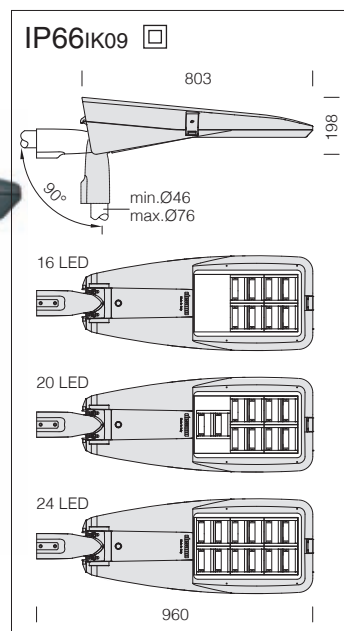
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L=2460cm² | 0° +20° | 0° -20° | 046/76

125W=6/8kV
157W=6/8kV
188W=6/8kV

new



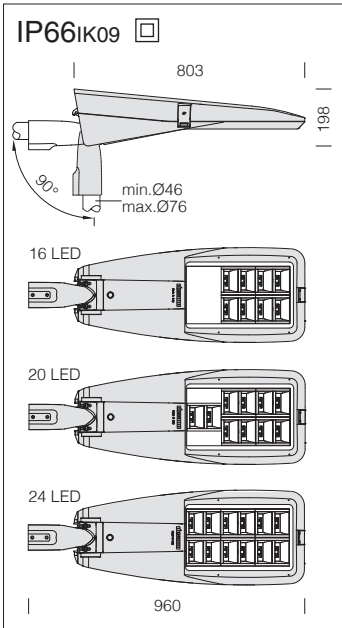
3395 Sella 2 - large areas					
		CLD CELL		W	LED (Tj=85°C)
wattage (700mA)	colour	weight	code		K - ølm 700mA - CRI
LED	s. silver	11.00	330824-00	125	4000K - 17980lm - CRI 70
	graphite		330820-00		
LED	s. silver	11.00	330825-00	157	4000K - 22400lm - CRI 70
	graphite		330821-00		
LED	s. silver	11.00	330826-00	188	4000K - 26880lm - CRI 70
	graphite		330822-00		

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).

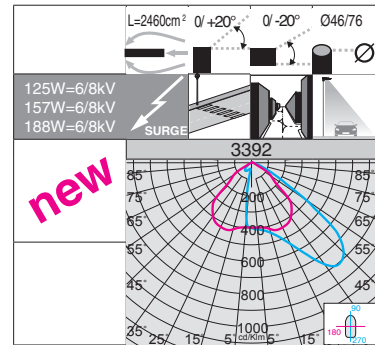
LED: Power factor ≥ 0.92 .
Luminous flux maintenance 80%:
>100.000h (L80B10).

	Power supply	n.LED	W	ølm
On request	900mA	16	165	21200
		20	207	26500
		24	248	31800



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

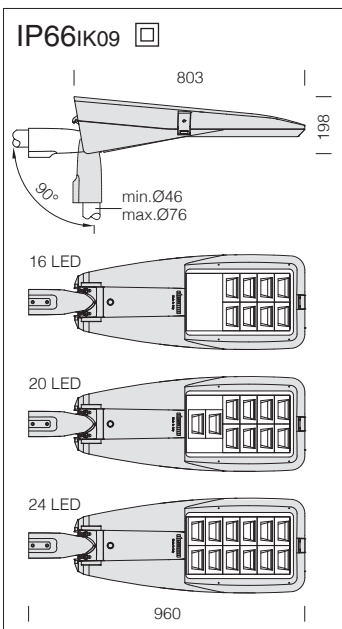
LED: Power factor ≥ 0.92 .
Luminous flux maintenance 80%:
>100.000h (L80B10).



3392 Sella 2 - asymmetric 45°				
		CLD CELL		LED (Tj=85°C)
wattage (700mA)	colour	weight	code	W
LED	s. silver	11.00	330864-00	125
	graphite		330860-00	
LED	s. silver	11.00	330865-00	157
	graphite		330861-00	
LED	s. silver	11.00	330866-00	188
	graphite		330862-00	

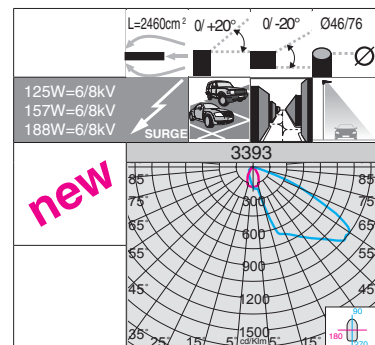
LED (Tj=85°C)
K - ø1m 700mA - CRI

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%:
>100.000h (L80B10).



3393 Sella 2 - asymmetric 60°				
		CLD CELL		LED (Tj=85°C)
wattage (700mA)	colour	weight	code	W
LED	s. silver	11.00	330884-00	125
	graphite		330880-00	
LED	s. silver	11.00	330885-00	157
	graphite		330881-00	
LED	s. silver	11.00	330886-00	188
	graphite		330882-00	

LED (Tj=85°C)
K - ø1m 700mA - CRI

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





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.

The fixture can be equipped with a **control system which provides lighting managers with the ability to improve the performance of urban and street lighting** installations while saving costs by lowering energy usage, optimising operation and reducing CO₂ emissions. The system incorporates the latest technologies in power electronics, communications and IoT. This makes possible, among other features, an on/off scheduled switching, a dynamic programming of lighting levels, map-based visualizations, automatic alarm reports, real-time fixture monitoring and maintenance scheduling of every single luminaire of multiple installations at once.

The system has a friendly and secure web-based user interface which can be operated anywhere and anytime from any web-connected device such as computers, smartphones and tablets providing real time and accurate control of the lighting infrastructure.

System Highlights

• Flexible solution

- Valid for new installations as well as for lighting renovation
- Autonomous system but integrable with other city services platforms
- Valid worldwide
- Compatible with most Smart City services platforms

• Values and revenues

- Better lighting performance
- Money savings
- Energy costs reduction
- Operation costs reduction

• Users

- Municipalities and County Councils
- Smart City platforms operators
- Managers of large infrastructure

• Applications

- Street and residential lighting (streets, roads)
- Urban & architectural lighting (monuments, public spaces)
- Large infrastructure lighting (airports, ports)
- Large areas and sport lighting (car parks, stadiums)
- Urban events lighting (celebrations, demonstrations)

System Architecture & Components

• System architecture

- Smart power electronics: LED drivers
- Wireless network hardware
- RF Nodes and GSM Gateways
- Cloud-based data acquisition and network management
- Management software suite (Network & data management)
- Web-based multi-device user friendly interface

• Technical aspects

- Fully programmable electrical parameters and functionalities
- Connectivity of sensors
- Self-diagnosis, notification of alarms
- Mains voltage and frequency monitoring
- High efficiency

• Lighting network nodes

- Multi-hop wireless mesh network
- IP-based protocol, broad coverage
- Automatic neighbour discovery, self-organization, ad hoc configuration
- Extensibility, interoperability, open standards
- Robust link, reliable and high-performance network
- Additional sensor data acquisition (optional)

• Gateway

- Mesh network concentrator
- 2G/3G/LTE network gateway
- Time and date precise synchronisation

• Central host and database

- Local or cloud hosting available
- End-to-end secured system
- Smart City and other horizontal management platforms integrability
- Multi-level data interchange capabilities, app interfaces
- Business Intelligence and data analytics

• Management Software Suite

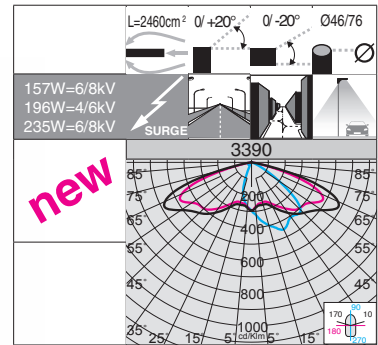
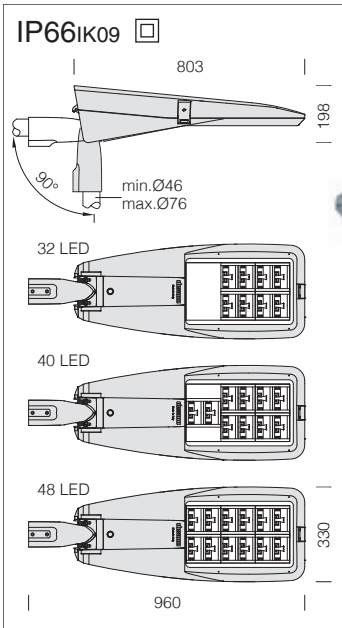
- Lighting configuration, management and maintenance
- Easy installation, test capabilities
- Data network management and configuration
- Reports, statistics and data visualization tools

• Fast commissioning

- Ease of installation
- Assembling outside fitting
- Remote configuration
- Reliable, outdoor-proof

• Accuracy

- GPS accurate location
- Point-to-point management
- Real-time operation



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

3390 Sella 2 - ST - SMART				
		CLD CELL		LED (Tj=85°C)
wattage (700mA)	colour	weight	code	W
LED	s. silver	On request	157	4000K - 22880lm - CRI 70
	graphite			
LED	s. silver	On request	196	4000K - 28600lm - CRI 70
	graphite			
LED	s. silver	On request	235	4000K - 34320lm - CRI 70
	graphite			

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

Smart City Lighting

- Flexible and avant-garde lighting**
 - Programmable lighting
 - Dynamic lighting
 - Reactive to events
 - Makes possible a human centric lighting
 - Increases citizen satisfaction
 - Helps to improve safety on streets
 - Compatible with most existing Smart City & urban services management platforms and easily adaptable thanks to its open architecture
- Environmental sustainability**
 - Energy savings
 - Reduction of CO₂ footprint
 - Lower lighting pollution
- Data-enabled lighting**

IoT technology enables scalable, site-based or cloud-based street lights connectivity through a robust, self-healing, wireless mesh network

User Friendly Web-based Interface

- Main functionalities**
 - Easy lighting levels & timing configuration
 - Creation of customised lighting schedules
 - Energy consumption monitoring
 - Power supply monitoring
 - Alarms and events reporting
 - Operation time recording
 - Geolocation and mapping of luminaires (multiple map choice)
 - Easy allocation of luminaires by town, street, coordinates, type
 - Maintenance planning
 - Multiple users administration
- Optimum lighting maintenance**
 - Possibility of preventive maintenance
 - Optimization of reactive maintenance
- Privacy and security commitment**
 - Encrypted communications
 - Safe communications exchange through highest encryption levels
 - Database access security
 - Secure hosting
 - Cloud protection and data confidentiality
 - Safe access with authentication
 - Highest protection against unauthorized access

