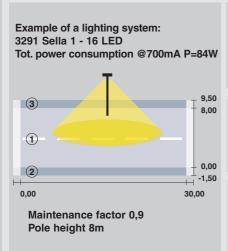
Advantages in installing new projects:

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.



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

Lighting design results	L _m [cd/m ²]	U0	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	✓	√	√	√	√

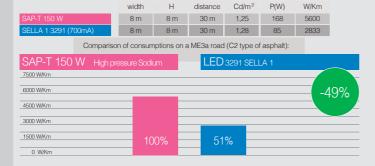
Area of evaluation: pavement	(2)
Length: 30m - Width 1,	5m
Grid	10 x 3 points
Street elements	pavement 2
Selected lighting class	S1

Lighting design results	E _m [lx]	E _{min} [lx]
Obtained values	19,24	9,59
Target values	≥15,00	≥5,00
Compliant / non-compliant	4	✓

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 _m [lx]	E _{min} [lx]
Obtained values	11,37	7,02
Target values	≥10,00	≥3,00
Compliant / non-compliant	√	√

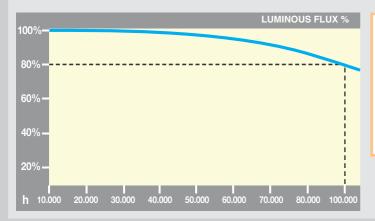
Energy efficiency: consuming less energy without giving up the benefits of technological progress. This is the great challenge for the future of our planet. This is because greater energy efficiency means lower consumption without compromising light quality. Being able to distinguish colours and perceive 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.





distance

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	L80B10	L90B10	L90B10
n.LED	W tot	@ta+25°C	@ta+50°C	@ta+25°C	@ta+50°C
8	42 (700mA)				
16	84 (700mA)	>100.000h	>100.000h	70.000h	50.000h
24	126 (700mA)				









The products of the Sella 1 family are compliant with all applicable tests (thirdparty 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.

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.

On request	Power supply	n.LED	W tot	ølm
0.11.4	350mA - 4000K	8	21	2714m
Sella 1 art. 3290		16	41	5440lm
art. 0250		24	61	8092lm
0-11-4	530mA - 4000K	8	32	3753lm
Sella 1 art. 3290		16	64	7528lm
ui i. 3230		24	97	11150lm

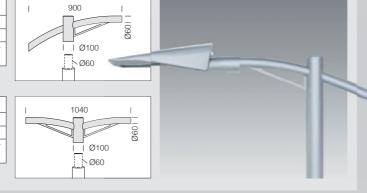
0-11-4	0 11 4		21	2524lm
Sella 1 art. 3290	350mA - 3000K	16	41	5059lm
ui t. 0230		24	61	7528lm
Sella 1		8	32	3490lm
art. 3290	530mA - 3000K	16	64	7001lm
art. 0230		24	97	10370lm

On request	Power supply	n.LED	W tot	ølm
0 !! 4		8	21	2697lm
Sella 1 art. 3291	350mA - 4000K	16	41	5404lm
art. 0251		24	61	8077lm
0-11- 4		8	32	3732lm
Sella 1 art. 3291	530mA - 4000K	16	64	7476lm
u. u. 525 i		24	97	11128lm

Calle 1		8	21	2508lm
Sella 1 art. 3291	350mA - 3000K	16	41	5026m
u. i. 020 i		24	61	7511lm
		8	32	3470m
Calla 4				0-70111
Sella 1 art. 3291	530mA - 3000K	16	64	6953lm

acc. 504 single arm			
grey	991262-00		
graphite	991263-00		
	poles with a diameter		
60mm.			

acc	. 508 double arm
grey	991266-00
graphite	991267-00
Suited for	poles with a diameter



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

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

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 masttop mounting. Inclination pace: 5°. Suited for poles with a diameter 42-76mm.

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

Coating: the standard powder coating consists of a first metal surface pre-treatment stage and of single layer of UV-stabilised, corrosion and salt resistant polyester powder coating.

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.



UNI EN SO 9227 On request: coating compliant with UNI EN ISO 9227 Corrosion tests in artificial

atmospheres for aggressive environments.

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).

	Table for the v	various options for managing	the supply point	
1-10V dimming	Virtual midnight	PLC remote control	Nema Socket	Wi-Fi remote control (to be agreed upon)
Adjustment range from 10%-100% with 1-10V	Stand alone system with reduction of luminous flux and surge protector 6/10 KV	Point-to-point and system management and diagnosis system	It can be installed directly onto the luminaire's body, ideal for the remote control of lights	Point-to-point and system mana- gement and diagnosis system with Wi-Fi system
Ordered with sub-code -12	Ordered with sub-code -30	Ordered with sub-code -0078	Ordered with sub-code -40	on request













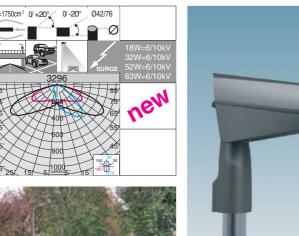




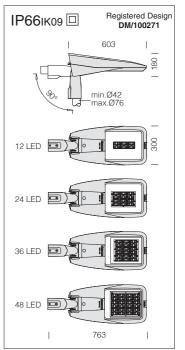








3296 Sella 1 - HP								
			CLD CELL		LUMEN OUTPUT (tq= 25 °C)			
wattage	colour	weight	code	W tot	K - ølm - CRI			
LED	grey	7.20	330900-00	18	4000K - 2722lm - CRI 70			
LED	graphite	7.20	330901-00	1 10				
LED	grey	7.20	330902-00	32	4000K - 4900lm - CRI 70			
LED	graphite	7.20	330903-00	32				
LED	grey	7.20	330904-00	52	4000K - 8000lm - CRI 70			
LED	graphite	7.20	330905-00	32	4000K - 8000IM - CRI 70			
LED	grey	7.20	330906-00	83	4000K 4000K- ODL 70			
LED	graphite	1.20	330907-00	03	4000K - 12900lm - CRI 70			



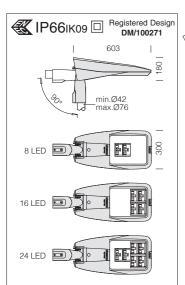
Optics: in PMMA, highly resistant to temperature and UV radiation.

LED: Power factor ≥0,9. Luminous flux maintenance 80%: 80.000h (L80B20).



RG0

Ethr

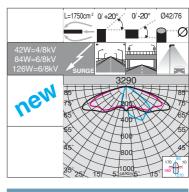


(PVD).

LED: Power factor ≥0.92.

>100.000h (L80B10).

7100.000h





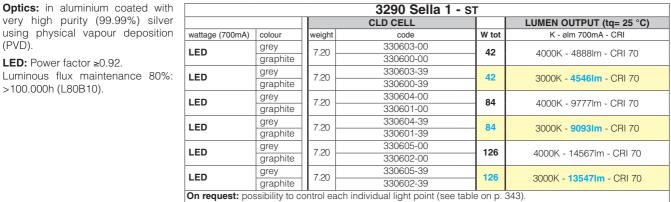


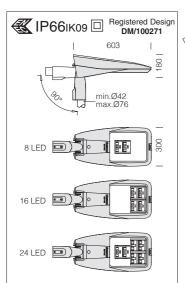




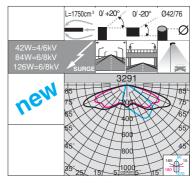
















RG0

Ethr











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).

3291 Sella 1 - STWB						
			CLD CELL		LUMEN OUTPUT (tq= 25 °C)	
wattage (700mA)	colour	weight	code	W tot	K - ølm 700mA - CRI	
LED	grey	7.20	330613-00	42	4000K - 4887lm - CRI 70	
LED	graphite	1.20	330610-00	42	4000K - 4887IIII - CRI 70	
LED	grey	7.20	330613-39	42	2000K 4545km ODL 70	
LED	graphite	1.20	330610-39	42	3000K - 4545lm - CRI 70	
LED	grey	7.20	330614-00	84	4000K - 9710lm - CRI 70	
LED	graphite	1.20	330611-00	04	4000K - 97 TOIM - CRI 70	
LED	grey	7.20	330614-39	84	3000K - 9030lm - CRI 70	
LED	graphite	1.20	330611-39	3000K - 9030IIII - CRI 70		
LED	grey	7.20	330615-00	126	4000K - 14539lm - CRI 70	
LED	graphite	7.20	330612-00	120	4000K - 14539IIII - CRI 70	
LED	grey graphite	7.20	330615-39	126	3000K - 13521lm - CRI 70	
LED		1.20	330612-39	120	3000K - 13321IM - CRI 70	
On request: pos	sibility to co	ontrol ea	ach individual light point (see table	e on p.	343).	











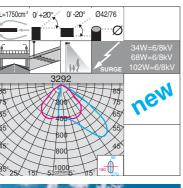








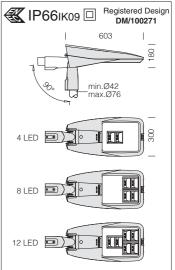








	3292 Sella 1 - asymmetric 45°							
			CLD CELL		LUMEN OUTPUT (tq= 25 °C)			
wattage (700mA)	colour	weight	code	W tot	K - ølm 700mA - CRI			
LED	grey	7.20	330664-00	34	4000K - 3654lm - CRI 70			
LED	graphite	1.20	330660-00] 34	4000K - 3654IM - CRI 70			
LED	grey	7.20	330664-39	34	2000/ 2000/ ODI 70			
LED	graphite	1.20	330660-39	34	3000K - 3398lm - CRI 70			
LED	grey	7.20	330665-00	68	4000K 7000k- ODL70			
LED	graphite	1.20	330661-00	00	4000K - 7308lm - CRI 70			
LED	grey	7.20	330665-39	- 68	00001/ 07001 ODI 70			
LED	graphite	1.20	330661-39	- 00	3000K - 6796lm - CRI 70			
LED	grey	7.00	330666-00	102	4000K 4000K ODL 70			
LED	graphite	7.20	330662-00	1 102	4000K - 10962lm - CRI 70			
LED	grey	7.00	330666-39	100	00001/ 404051 OFI 70			
LED	graphite	7.20	330662-39	102	3000K - 10195lm - CRI 70			



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).















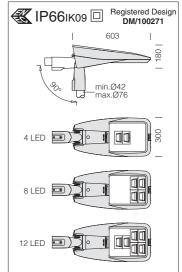








3293 Sella 1 - asymmetric 60°							
			CLD CELL		LUMEN OUTPUT (tq= 25 °C)		
wattage (700mA)	colour	weight	code	W tot	K - ølm 700mA - CRI		
LED	grey	7.20	330684-00	34	4000K - 3045lm - CRI 70		
LED	graphite	7.20	330680-00	34	4000K - 3045IIII - CRI 70		
LED	grey	7.20	330684-39	34	2000K 2000km ODI 70		
LED	graphite	7.20	330680-39	34	3000K - 2832lm - CRI 70		
LED	grey	rey 7.20 330685-00 68	68	4000K 0400K 0DL 70			
LED	graphite	7.20	330681-00	00	4000K - 6130lm - CRI 70		
LED	grey	7.20	330685-39	68	2000K 5704km ODL70		
LED	graphite	7.20	330681-39	00	3000K - 5701lm - CRI 70		
LED	grey	7.20	330686-00	102	4000K 000El ODI 70		
LED	graphite	1.20	330682-00	102	4000K - 9395lm - CRI 70		
LED	grey	7.00	330686-39	100	20001/ 27071 ODI 70		
LED	graphite	7.20	330682-39	102	3000K - 8737lm - CRI 70		

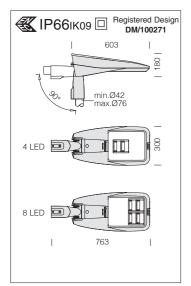


Optics: in aluminium coated with very high purity (99.99%) silver using physical vapour deposition (PVD).

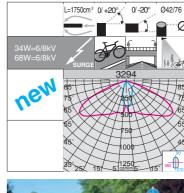
LED: Power factor ≥0.92. Luminous flux maintenance 80%: 80.000h (L80B10).

RG0

Ethr









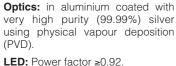






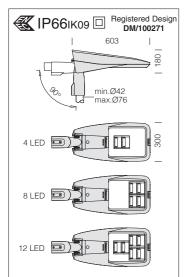


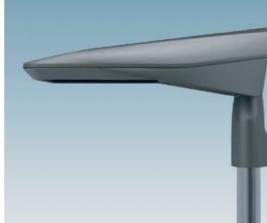


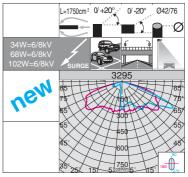


LED: Pow	er fac	tor ≥0.92.	
Luminous	flux	maintenance	80%:
80.000h (L	.80B1	0).	

3294 Sella 1 - cycleways					
			CLD CELL		LUMEN OUTPUT (tq= 25 °C)
wattage (700mA)	colour	weight	code	W tot	K - ølm 700mA - CRI
LED	grey	7.20	330702-00	34	4000K - 3011lm - CRI 70
LLD	graphite] ' .20 [330700-00] "	4000K - 30 I IIIII - CRI 70
LED	grey	7.20	330702-39	34	3000K - 2800lm - CRI 70
LED	graphite	1 1.20	330700-39	34	3000K - 2800IIII - CHI 70
LED	grey	7.20	330703-00	68	4000K - 6015lm - CRI 70
LED	graphite	1 1.20	330701-00	00	4000K - 60 15IIII - CHI 70
LED	grey	7.20	330703-39	68	2000K FE04I- CDI 70
LED	graphite		330701-39	1 00	3000K - 5594lm - CRI 70
On request: pos	ssibility to c	ontrol ea	ch individual light point (see table	e on p.	343).

























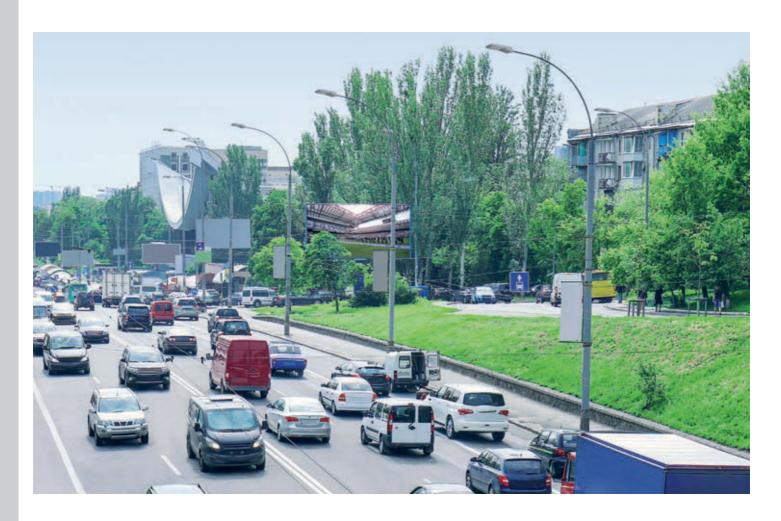




Optics: in aluminium coated with very high purity (99.99%) silver using physical vapour deposition (PVD).

LED: Power factor ≥0.92. Luminous flux maintenance 80%: 80.000h (L80B10).

3295 Sella 1 - large areas					
			CLD CELL		LUMEN OUTPUT (tq= 25 °C)
wattage (700mA)	colour	weight	code	W tot	K - ølm 700mA - CRI
LED	grey	7.20	330724-00	34	4000K - 2862lm - CRI 70
	graphite	1.20	330720-00] "	4000K - 2002IIII - CHI 70
LED	grey	7.20	330724-39	34	3000K - 2662lm - CRI 70
LED	graphite	1.20	330720-39	34	3000K - 2002IIII - CRI 70
LED	grey	7.20	330725-00	68	4000K - 5725lm - CRI 70
LED	graphite	1.20	330721-00	00	4000K - 3723IIII - CHI 70
LED	grey	7.20	330725-39	68	3000K - 5324lm - CRI 70
LED	graphite	1.20	330721-39	00	3000K - 5324IM - CRI 70
LED	grey	7.20	330726-00	102	4000L 0507L- ODL 70
LED	graphite	1.20	330722-00	102	4000K - 8587lm - CRI 70
LED	grey	7.20	330726-39	102	20001/ 7000 1 ODL 70
LED	graphite	7.20	330722-39	102	3000K - 7986lm - CRI 70
On request: pos	ssibility to co	ntrol ea	ch individual light point (see table	e on p.	343).









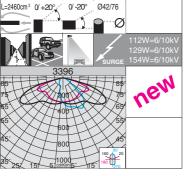












colour

grey

graphite grey

graphite grey

graphite

weight

11.00

11.50

11.50

On request: possibility to control each individual light point (see table on p. 343).



3396 Sella 2 - н	P	
CLD CELL		LUMEN OUTPUT (tq= 25 °C)
code	W tot	K - ølm - CRI
code 330830-00		K - ølm - CRI
	W tot	
330830-00	112	K - ølm - CRI 4000K - 17186lm - CRI 70
330830-00 330831-00		K - ølm - CRI
330830-00 330831-00 330832-00	112	K - ølm - CRI 4000K - 17186lm - CRI 70

Optics: in PMMA, highly resistant to temperature and UV radiation.

960

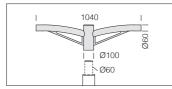
Registered Design DM/100271

803

min.Ø42 max.Ø76

IP661K09 □

LED: Power factor ≥0,9. Luminous flux maintenance 80%: 80.000h (L80B20).



wattage

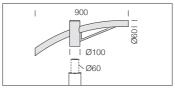
LED

LED

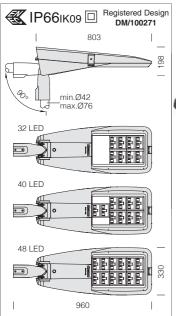
LED

acc. 508 double arm					
grey		9912	66-	00	
graphite		9912	67-	00	
Suited for	poles	with	а	diameter	

330835-00



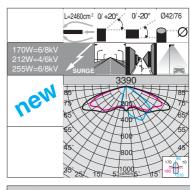
acc. 504 single arm					
grey	991262-00				
graphite	991263-00				
Suited for 60mm.	poles with a diameter				



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).





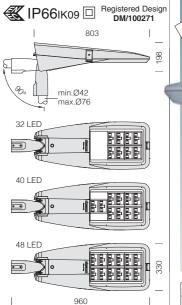


LED: LUMINOUS FLUX MAINTENANCE (including end-of-life failure)							
n. LED	W tot	L80B10 @ta+25°C	L80B10 @ta+50°C	L90B10 @ta+25°C	L90B10 @ta+50°C		
32	170 (700mA)	>100.000h	>100.000h	70.000h	50.000h		
40	212 (700mA)	>100.000h	>100.000h	70.000h	50.000h		
48	255 (700mA)	>100.000h	>100.000h	60.000h	40.000h		

0000 0 11 0 0							
3390 Sella 2 - ST							
		CLD CELL			LUMEN OUTPUT (tq= 25 °C)		
wattage (700mA)	colour	weight	code	W tot	K - ølm 700mA - CRI		
LED	grey	11.00	330803-00	170	4000K 0000 Alex ODL 70		
LED	graphite	11.00	330800-00	170	4000K - 20634lm - CRI 70		
LED	grey	11.00	330803-39	170	3000K - 19190lm - CRI 70		
LED	graphite	11.00	330800-39				
LED	grey	11.00	330804-00	212	4000K - 25792lm - CRI 70		
LED	graphite	11.00	330801-00	212			
LED	grey	11.00	330804-39	212	3000K - 23987lm - CRI 70		
LED	graphite	11.00	330801-39	212			
LED	grey	11.00	330805-00	255	4000L/ 00050L 0DL70		
LED	graphite	11.00	330802-00	255	4000K - 30950lm - CRI 70		
LED	grey	11.00	330805-39	255	00001/ 007041 ODI 70		
LED	graphite	11.00	330802-39	255	3000K - 28784Im - CRI 70		
On request: possibility to control each individual light point (see table on p. 343).							



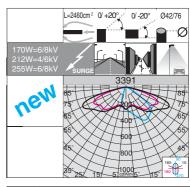




Optics: in aluminium coated with very high purity (99.99%) silver using physical vapour deposition (PVD).

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







LED: LUMINOUS FLUX MAINTENANCE (including end-of-life failure)							
n. LED	W tot	L80B10 @ta+25°C	L80B10 @ta+50°C	L90B10 @ta+25°C	L90B10 @ta+50°C		
32	170 (700mA)	>100.000h	>100.000h	70.000h	50.000h		
40	212 (700mA)	>100.000h	>100.000h	70.000h	50.000h		
48	255 (700mA)	>100.000h	>100.000h	60.000h	40.000h		

3391 Sella 2 - sтwв							
				LUMEN OUTPUT (tq= 25 °C)			
wattage (700mA)	colour	weight	code	W tot	K - ølm 700mA - CRI		
LED	grey	11.00	330813-00	170	4000K - 20495lm - CRI 70		
LED	graphite	11.00	330810-00	'''	4000K - 20495IM - CRI 70		
LED	grey	11.00	330813-39	170	0000K 40000km CDL 70		
LED	graphite	11.00	330810-39	1 170	3000K - 19060lm - CRI 70		
LED	grey	11.00	330814-00	212	4000K 05010km 05km		
LED	graphite	11.00	330811-00	212	4000K - 25618lm - CRI 70		
LED	grey	11.00	330814-39	212	3000K - 23825lm - CRI 70		
LED	graphite	11.00	330811-39	212			
LED	grey	11.00	330815-00	255	4000K - 30742lm - CRI 70		
LED	graphite	11.00	330812-00	255			
LED	grey	11.00	330815-39	255	3000K - 28591lm - CRI 70		
LED	graphite	11.00	330812-39	233			
On request: possibility to control each individual light point (see table on p. 343).							

















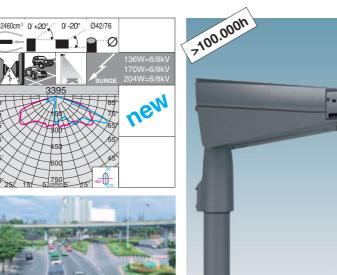




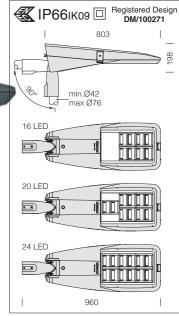






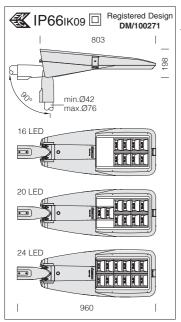


3395 Sella 2 - large areas						
CLD CELL LUMEN OUTPUT (t						
colour	weight	code	W tot	K - ølm 700mA - CRI		
grey	11.00	330824-00	126	4000K - 11450lm - CRI 70		
graphite	111.00	330820-00	130	4000K - 11450IIII - CRI 70		
grey	11.00	330824-39	126	3000K - 10649lm - CRI 70		
graphite	111.00	330820-39	130			
grey	11.00	330825-00	170	4000K - 14312lm - CRI 70		
graphite	111.00	330821-00	1 '''			
grey	11.00	330825-39	170	0000K 40040km ODL 70		
graphite	111.00	330821-39	170	3000K - 13310lm - CRI 70		
grey	11.00	330826-00	204	10001/ 171751 00170		
graphite	111.00	330822-00	204	4000K - 17175lm - CRI 70		
grey	11.00	330826-39	204	0000K 45070L ODL 70		
graphite	111.00	330822-39	204	3000K - 15973lm - CRI 70		
	grey graphite grey	grey graphite 11.00 grey 11.00 graphite grey 11.00 graphite	colour weight code grey 330824-00 330820-00 graphite 330820-00 330820-00 graphite 330820-39 330820-39 grey 330825-00 330825-00 graphite 330825-00 330825-39 grey 11.00 330825-39 graphite 330825-39 330826-00 graphite 330820-39 330826-00 graphite 330826-39 330826-39	colour grey weight graphite code 330824-00 W tot 330824-00 136 graphite grey graphite grey 11.00 330824-39 136 graphite grey 11.00 330825-00 170 graphite grey 11.00 330825-39 170 graphite grey 11.00 330821-39 170 graphite grey 11.00 330826-00 204 graphite grey 11.00 330826-39 204		



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).



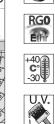
Optics: in aluminium coated with very high purity (99.99%) silver using physical vapour deposition (PVD).

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













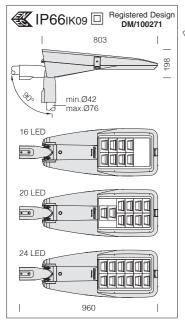








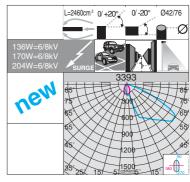
3392 Sella 2 - asymmetric 45°							
CLD CELL					LUMEN OUTPUT (tq= 25 °C)		
wattage (700mA)	colour	weight	code	W tot	K - ølm 700mA - CRI		
LED	grey	11.00	330864-00	136	4000K - 14610lm - CRI 70		
1220	graphite	11.00	330860-00	130	4000K - 14610IM - CRI 70		
LED	grey	11.00	330864-39	136	3000K - 13587lm - CRI 70		
LED	graphite	11.00	330860-39	130	3000K - 1356/IIII - CRI /U		
LED	grey	11.00	330865-00	170	4000K 40000km ODL70		
LED	graphite	11.00	330861-00	1 '''	4000K - 18262lm - CRI 70		
LED	grey	11.00	330865-39	170	0000V 40004I ODL 70		
LED	graphite	11.00	330861-39	1 170	3000K - 16984lm - CRI 70		
LED	grey	11.00	330866-00	204	4000K 0404Fl ODL70		
LED	graphite	11.00	330862-00	204	4000K - 21915lm - CRI 70		
LED	grey	11.00	330866-39	204	00001/ 000041 0001 70		
LED	graphite	11.00	330862-39	204	3000K - 20381lm - CRI 70		
On request: pos	On request: possibility to control each individual light point (see table on p. 343).						



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).







136W=6/8kV 170W=6/8kV 204W=6/8kV	SURGE
	3393
new	85
110	65
	55
	45
	35 25 15 5 ddKim5 15 180 270
-	- t mir field

ZON

3393 Sella 2 - asymmetric 60°						
	LUMEN OUTPUT (tq= 25 °C)					
wattage (700mA)	colour	weight	code	W tot	K - ølm 700mA - CRI	
LED	grey	11.00	330884-00	136	4000K - 12260lm - CRI 70	
LED	graphite	111.00	330880-00	1 130	4000K - 12260IIII - CRI 70	
LED	grey	11.00	330884-39	136	00001/ 144001 001.70	
LED	graphite 330880-39	130	3000K - 11402lm - CRI 70			
LED	grey	11.00	330885-00	170	4000K 15305km CDL70	
LED	graphite	111.00	330881-00	ا ۱٬۰۰	4000K - 15325lm - CRI 70	
LED	grey	11.00	330885-39	170	3000K - 14252lm - CRI 70	
LED	graphite	111.00	330881-39	1 170		
LED	grey	11.00	330886-00	204	4000K 4000N ODL 70	
LED	graphite	111.00	330882-00	204	4000K - 18390lm - CRI 70	
LED	grey	11.00 -	330886-39	204	2000L/ 47400L ODL 70	
	graphite	111.00	330882-39	204	3000K - 17103lm - CRI 70	
On request: possibility to control each individual light point (see table on p. 343).						























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, demostrations)

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 frecuency 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 synch

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.

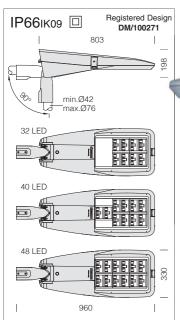
With the Web and the new technologies, access to services is easier and public spaces can be organized to favour mobility, save time and turn our cities smarter.

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.

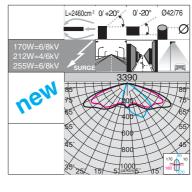
Central host and database

- 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).











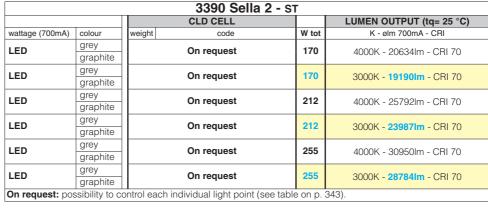














- Flexible and avant-garde lighting
- Programmable lighting
- Dynamic lighting
- Reactive to events
- Makes possible a human centric lighting
- Increases citizen satisfaction
- Helps to improve safety on streets
- Compatible with most existing Smart City & urban services management platforms and easily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

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, coordenates, type
- Manteinance 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 encryptation levels
- Database access security
- Secure hosting
- Cloud protection and data confidentiality
- Safe access with authentication
- Highest protection against unauthorized access

