

LED Streetlight for urban areas and roads



- LED STREETLIGHTING FOR CAR PARK, ROAD and HIGHWAY
 - Visual Confort and Uniform lighting
 - Reliability
 - Safety
 - Autodimming or city light output management
 - $L_{80}F_{10}$ - 80 000 hours
 - Driver 120 000 hours ($T_p < 55^{\circ}C$)
 - Running temperatures:
 $-20/+55^{\circ}C$
- Made 100% in Italy and western of Europe
 - 10 Years warranty





ELECTRICAL SPECIFICATIONS

Voltage	220 ÷ 240 V ac
Frequency	50 - 60 Hz
Electrical safety class	Classe II
Power supply efficiency	92,5%
Total Harmonic distortion	<20%
Driver lifetime	120.000 hours(@<55 °C)
Driver Changing	Extractable and replacable per separated module

MECHANICAL FEATURES

Body	Die-cast aluminium EN 46100
Paint	Resistant to 1000 hours in salt spray
Glass	Extra clear, 4-mm thick
External screws	A2 stainless steel
Total weight	6,5 kg
Ingress protection	IP 66
Impact resistance	IK08 - 5j
Typical wire	HO7RNF - 2x1,5mm ²

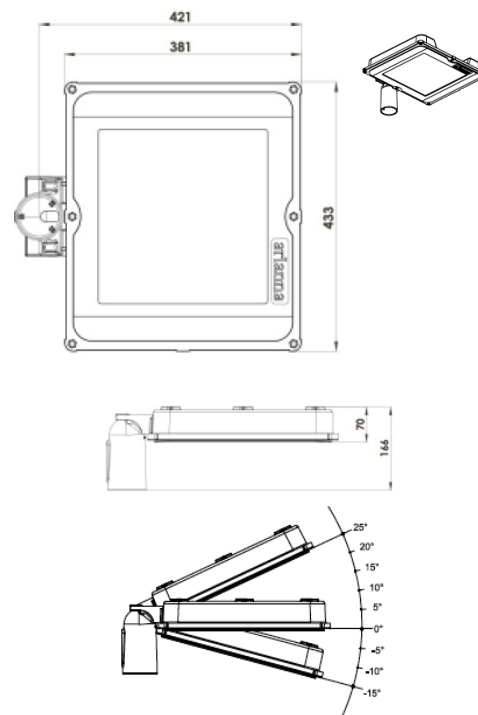
OPTICAL FEATURES

LED	PHILIPS LUMILEDS LUXEON M
Photobiological safety	Exempt group
Temperature of color	4000K per default
CRI	>70

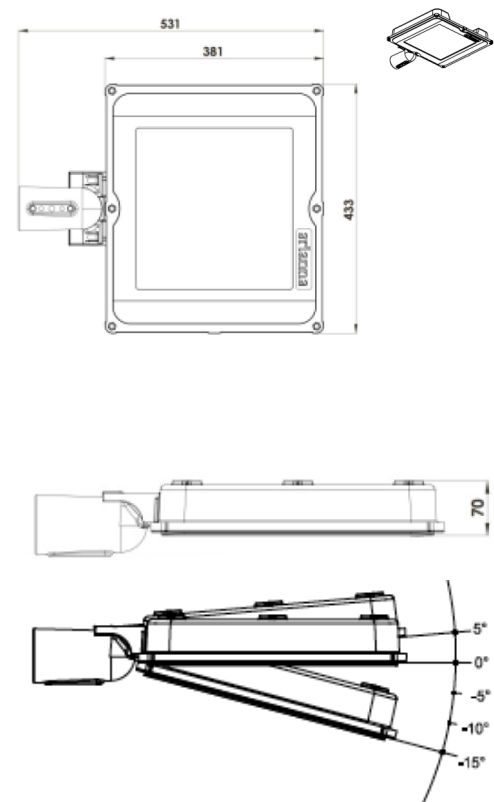
ALL TYPES

Model	nb. LED	LED flux lm@4000k	Luminaire flux lm@4000k	Power W	Efficacy lm/W
30 watt	4	3559	2937	28	105
45 watt	8	5861	4865	44	111
60 watt	10	7696	6388	58	110
75 watt	14	9864	8187	73	111
90 watt	16	11620	9645	88	110
105 watt	18	13443	11158	104	107
120 watt	18	15005	12454	118	106
140 watt	18	17124	14213	138	103

POST TOP



BRACKET



units : mm

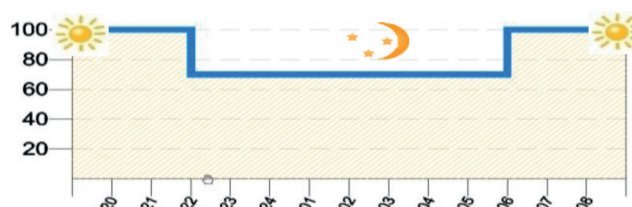


IP66

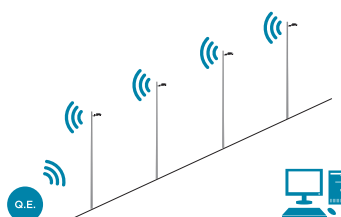


Lighting management:

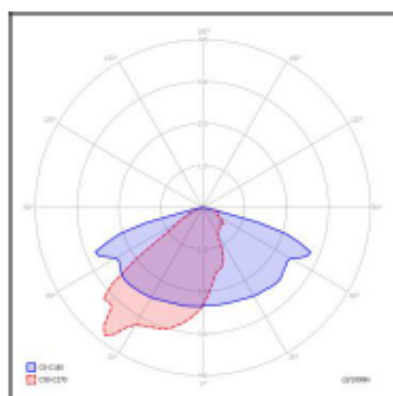
AUTO DIMMING DEVICE



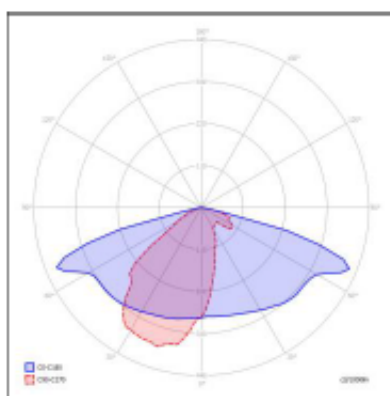
«SMART CITY SYSTEM» Power Line Carrier Communication (220V Wires) Or Dali and/or Wifi/GSM/GPRS



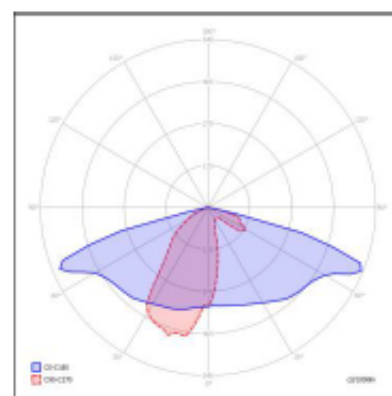
Optics:



TYPE MA



TYPE QA



TYPE TA

.ies files are available for Dialux simulation



CASE STUDY

Municipality of Novara

To upgrade the Novara street lighting system, Arianna proposed a high-tech LED solution. The city council's objective was to reduce power consumption, while offering citizens a better illuminated, more secure city. The project involved the installation of 650 Snell LED and 550 Lola LED luminaires, replacing 1,200 mercury vapour street lamps. The project also included the installation of retrofit optics kits, thus reducing costs and reusing the existing infrastructure

The solution proposed by Arianna is part of the Municipality of Novara's Smart City transformation process. Lighting is made smart by the remote control function that allows customised management at an individual luminaire level.

LED technology increases energy savings, cutting energy cost dramatically: overall savings of 50% have been estimated. Using this new system, then, the city council will halve its street lighting costs.

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	<i>Before</i>	<i>After</i>
Luminaire	650x VM	650 Street Snell
Power	80 and 125 watt	58 and 73 watt
Consumption	300.000 kWh/year	165.000 kWh/year

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Licence No. ENEC-00660 for road and streetlighting

Rated Voltage / Frequency 220-240 V ~ 50-60 Hz

Insulation Class II

Degree of protection (IP) 66

Tested acc. to EN 60598-1:2008/A11:2009, EN 60598-1:2008, EN 60598-2-3:2003/A1:2011,
EN 60598-2-3:2003

The luminaire was additionally tested in accordance with the standard IEC/EN 62262:2002 (degrees of protection provided by enclosure for electrical equipment against external mechanical impacts, IK code).

Luminaire withstand the test for IK08 code

CE - Conformity Declaration

Series: ROADLED SNELL

Are compliant with the following Directives:

- 2006/95/EC LV
- 2004/108/EC EMC
- 2009/125/EC ErP
- 2011/65/EU RoHS

And they are in compliance with the following standards:

- EN 60598-1: 2008 +A11:2009
- EN 60598-2-3: 2003 +A1:2011
- EN 55015: 2006 +A1:2007 +A2:2009
- EN 61547: 2009
- EN 61000-3-2: 2006 +A1:2009 +A2:2009
- EN 61000-3-3: 2008
- EN 62471: 2008
- EN 62493: 2010

