



vizulo

STORK

LITTLE SISTER SMOOTH  
EXTENDED



#### **Ventilation cable gland**

Combines pressure equalization and cable gland in a single unit. It ensures high air flow rates as well as high water protection capacity

#### **Glass**

Flat glass. Glass is fixed to die-cast aluminium frame with metal clips and can easily be replaced

#### **LED module**

High quality LED's with optimal thermal resistance and energy consumption characteristic, for high lumen output and long expected life time. Color temperature available: 2700 K, 3000 K, 4000 K  
(1800 K, 2200 K, 3500 K, 5000 K, 5700 K, 6500 K available on customer request)

#### **Intelligent light control system**

Power line or radio frequency

#### **Protection**

IP66 for the complete luminaire

#### **Impact resistance**

IK09 (Vandal protected)  
for the complete luminaire

#### **Module temperature control**

The LED driver will start reducing the light output when the LED's approach critical temperature. The temperature is measured via a sensor placed on the PCB  
(function available on customer request)

#### **Body**

Die-cast aluminium

#### **Lighting protection**

Built-in surge protection starting from 3 kV till 10 kV

#### **Light regulation**

STORK drivers offer integrated midnight dimming and network-controlled 1 - 10 V and DALI protocols

#### **Opening**

Die-cast aluminium clip for tool-less opening or closing, fixed to the frame with stainless steel spring for easy maintenance

#### **Safety switch**

Safety switch disconnects power on opening

#### **Sockets**

Zhaga and NEMA sockets compatible



**Architectural & Landscape**

**Outdoor Industrial Area**

**Decorative & Urban Area**

**Residential Street/Area**

**Traffic Roads**

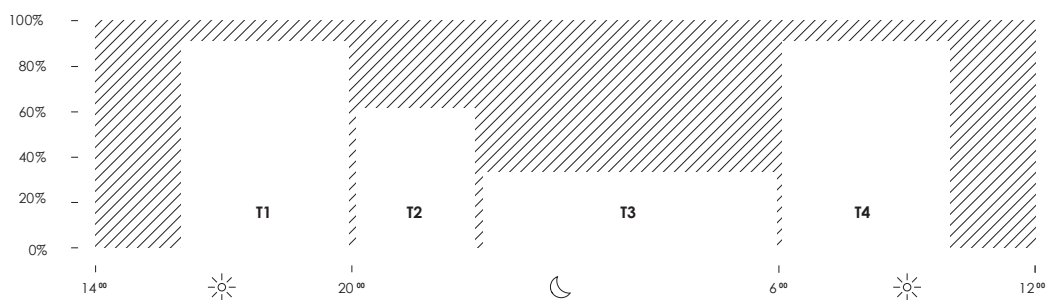
**Pedestrian Roads**

**City Centre**

**Parks, Urban and Decorative Areas**

## Midnight dimming

Midnight dimming provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on/off times.



# Stork little sister smooth extended



**Note!** Glass with gray print is standard  
(black print glass on request!)



RAL7035



RAL9006

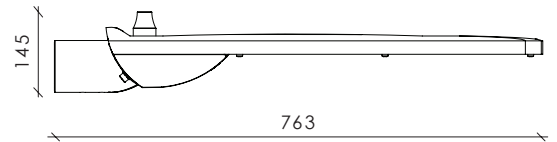
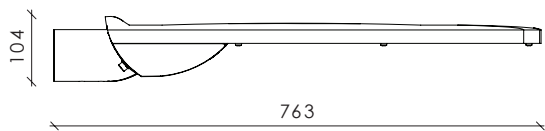


DB703

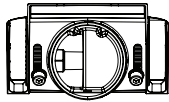


RAL9005

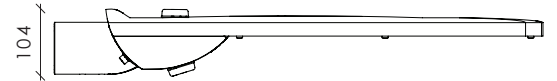
Other colors  
available on request



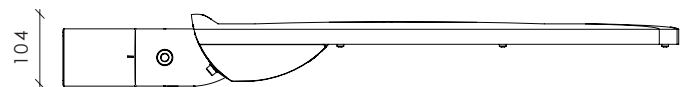
Dimensions with RF antenna



170

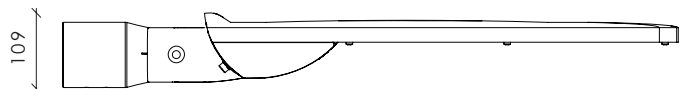


Dimensions with 2 Zhaga connectors



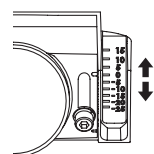
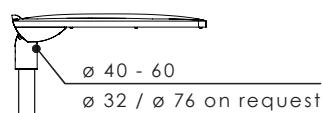
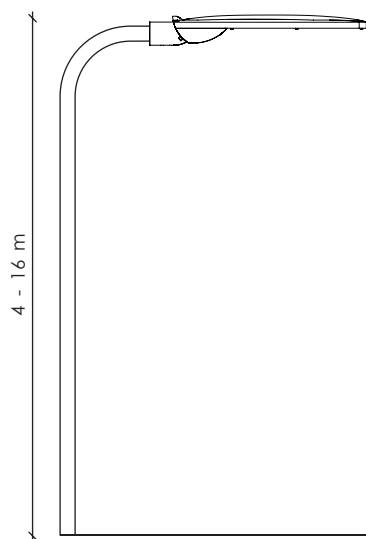
879

Dimensions with adjustable console  $\pm 90^\circ$ , 60 mm

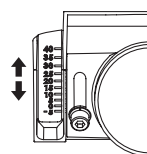


904

Dimensions with adjustable console  $\pm 90^\circ$ , 76 mm



$\leq -25^\circ \dots 15^\circ$   
Side entry



$\leq -5^\circ \dots 40^\circ$   
Vertical entry

## Technical information



<b>V</b>	198 - 264
<b>Hz</b>	50 - 60
<b>W</b>	5 - 75
<b>lm</b>	476 - 11859 <sup>(1)</sup>
<b>lm/W</b>	95 - 167
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>
<b>°C</b>	-40 to +50   5 - 65 W -40 to +35   65 - 75 W
<b>CRI</b>	>70 / >80 / >90 <sup>(2)</sup>

<b>Body:</b>	Die-cast aluminium
<b>Dimming:</b>	DALI / 1 - 10 V / Midnight dimming / Step dimming / Mains dimming
<b>Initial chromaticity:</b>	MacAdam 5
<b>Lifetime:</b>	Eco 100 000 h (L90B10) at Ta = 25 °C* / Standard 100 000 h (L98B10) at Ta = 25 °C* / High density 100 000 h (L98B10) at Ta = 25 °C*
<b>Warranty:</b>	5 years
<b>Installation:</b>	Tool-less
<b>Spigot:</b>	32 - 40 mm <sup>(3)</sup> / 40 - 60 mm / 60 - 76 mm
<b>Socket:</b>	NEMA / Top and Bottom Zhaga
<b>Intelligent Control:</b>	Stand-alone / Group / CMS
<b>Sensor:</b>	Motion / Motion + Daylight / Daylight
<b>Surge protection:</b>	4 / 6 / 10 kV <sup>(4)</sup>
<b>Nature friendly:</b>	PC Amber / Red / 1800 K
<b>Corrosion protection:</b>	Up to C5
<b>Neto weight:</b>	Up to 5.8 kg
<b>Max. wind load area, SCd, m<sup>2</sup>:</b>	0.059

<sup>1)</sup> Lumen output indicated at CRI > 70

<sup>2)</sup> 1800 / 2200 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT

<sup>3)</sup> Achievable with an adapter for 40 - 60 mm spigot

<sup>4)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>5)</sup> Coming soon

\*This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models. And high power and high current luminaire models may have negative lifetime deviation comparing to standard models. To receive precise value please contact VIZULO export representatives.

Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes.

## Standard modules

\* Data for L01 optic.

Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	32			64		
<b>Nominal current, mA</b>	300	510	755	210	310	385
<b>Power, W</b>	30	50	75	40	60	75
<b>Luminous Flux, lm</b>	4644	7461	10566	6298	9334	11762
<b>Efficacy, lm/W</b>	155	149	141	157	156	157
<b>Power factor, PF</b>	Up to 0.97			Up to 0.98		

Luminaire efficacy	2700 K	30 - 75 W	3980 - 10080 lm	121 - 135 lm/W
	3000 K	30 - 75 W	4379 - 11091 lm	133 - 148 lm/W
	5000 K	30 - 75 W	4644 - 11762 lm	141 - 157 lm/W
	5700 K	30 - 75 W	4644 - 11762 lm	141 - 157 lm/W

## High density modules

\* Data for V01 optic.

Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	64			128		
<b>Nominal current, mA</b>	210	310	385	110	160	200
<b>Power, W</b>	40	60	75	40	60	75
<b>Luminous Flux, lm</b>	6298	9334	11762	6471	9697	11859
<b>Efficacy, lm/W</b>	157	156	157	162	162	158
<b>Power factor, PF</b>	Up to 0.98			Up to 0.98		

Luminaire efficacy	2700 K	40 - 75 W	5397 - 10163 lm	133 - 139 lm/W
	3000 K	40 - 75 W	5939 - 11183 lm	147 - 153 lm/W
	5000 K	40 - 75 W	6298 - 11859 lm	156 - 162 lm/W
	5700 K	40 - 75 W	6298 - 11859 lm	156 - 162 lm/W

## ECO

\* Data for L01 optic.

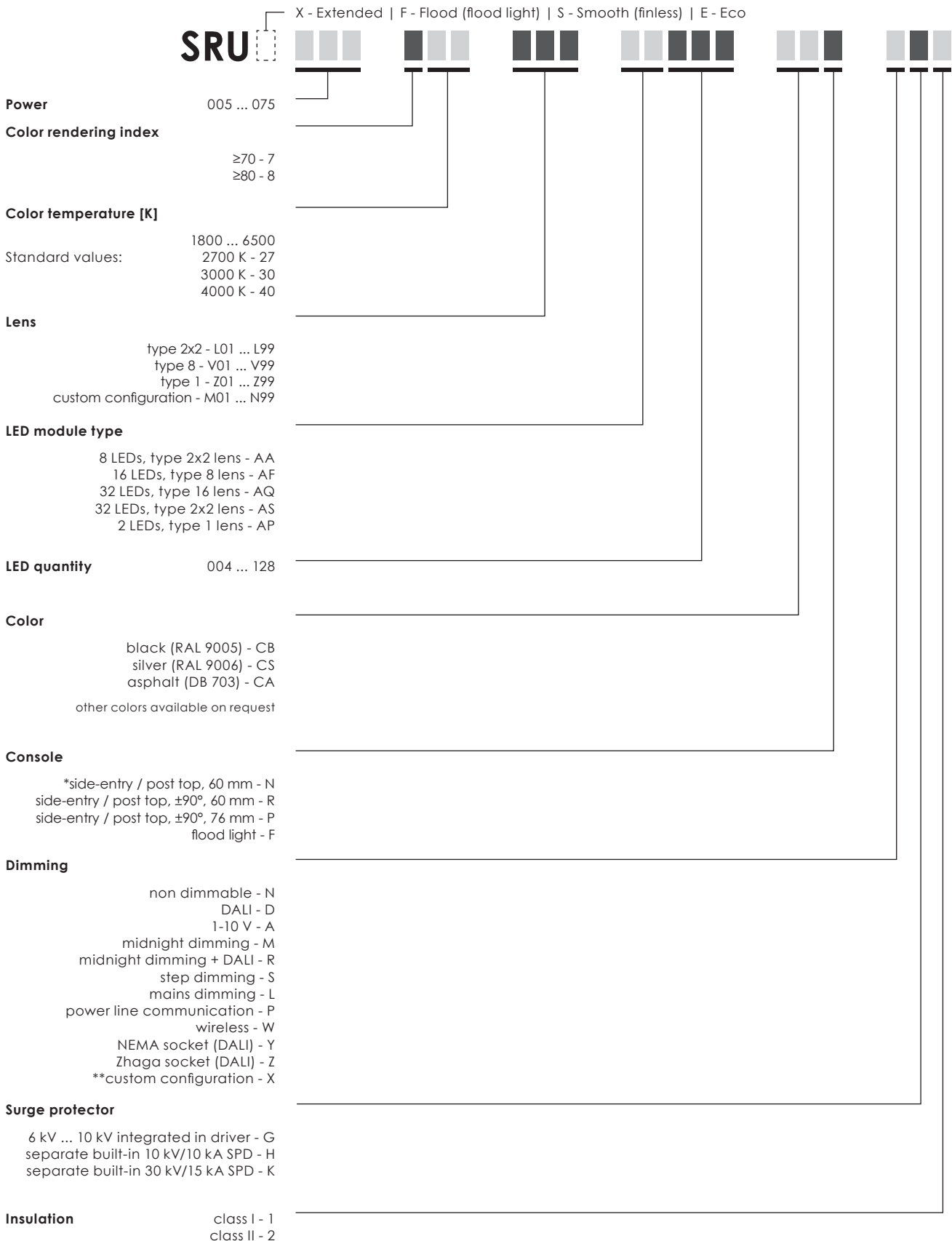
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	32			64		
<b>Nominal current, mA</b>	200	296	370	100	150	200
<b>Power, W</b>	40	60	75	40	60	75
<b>Luminous Flux, lm</b>	6120	8873	10760	6682	9672	11766
<b>Efficacy, lm/W</b>	153	148	143	167	161	157
<b>Power factor, PF</b>	Up to 0.96			Up to 0.96		

Luminaire efficacy	2700 K	40 - 75 W	5706 - 10971 lm	128 - 158 lm/W
	3000 K	40 - 75 W	5789 - 11130 lm	136 - 158 lm/W
	5000 K	40 - 75 W	6037 - 11607 lm	143 - 165 lm/W
	5700 K	40 - 75 W	6037 - 11607 lm	143 - 165 lm/W

# Model name principles

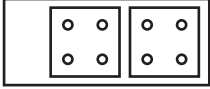
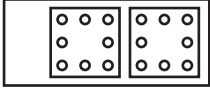


\* Console regulation range - side entry:  $+15^\circ \dots -25^\circ$  | post top:  $+40^\circ \dots -5^\circ$

\*\* CUSTOM CONFIGURATION EXAMPLE:  
 NEMA socket + Zhaga socket; NEMA socket + Zhaga socket + midnight dimming; etc.  
 Custom configuration information is available in order confirmation.



# LED modules

Type	Max module quantity	Min LED quantity per module	Max LED quantity per module	Max LED quantity per luminaire	LED step	LED type	Lens type	Layout
AA	8	4	8	64	2	Standard Eco	type 2x2 L01...LZ9	 A008
AF	8	4	16	128	4	Standard	type 8 V01...VZ9	 F016

# Cable core count

Socket	Dimming	Model number abbreviation	Input cable core count - Class I	Input cable core count - Class II
None	None	N	3	2
None	DALI	D	5	4
None	Midnight dimming	M	3	2
None	Midnight dimming + DALI	R	5	4
None	Step dimming	S	5 <sup>(1)</sup>	4 <sup>(1)</sup>
None	Mains dimming	L	3	2
Zhaga	DALI	Z	3 <sup>(2)</sup>	2 <sup>(2)</sup>
Zhaga	Midnight dimming	X	3	2
Zhaga	Mains dimming	X	3	2
NEMA	DALI	Y	3 / 5 <sup>(3)</sup>	2 / 4 <sup>(3)</sup>
NEMA	Midnight dimming	X	3	2
NEMA	Step dimming	X	5 <sup>(1)</sup>	4 <sup>(1)</sup>
NEMA	Mains dimming	X	3	2

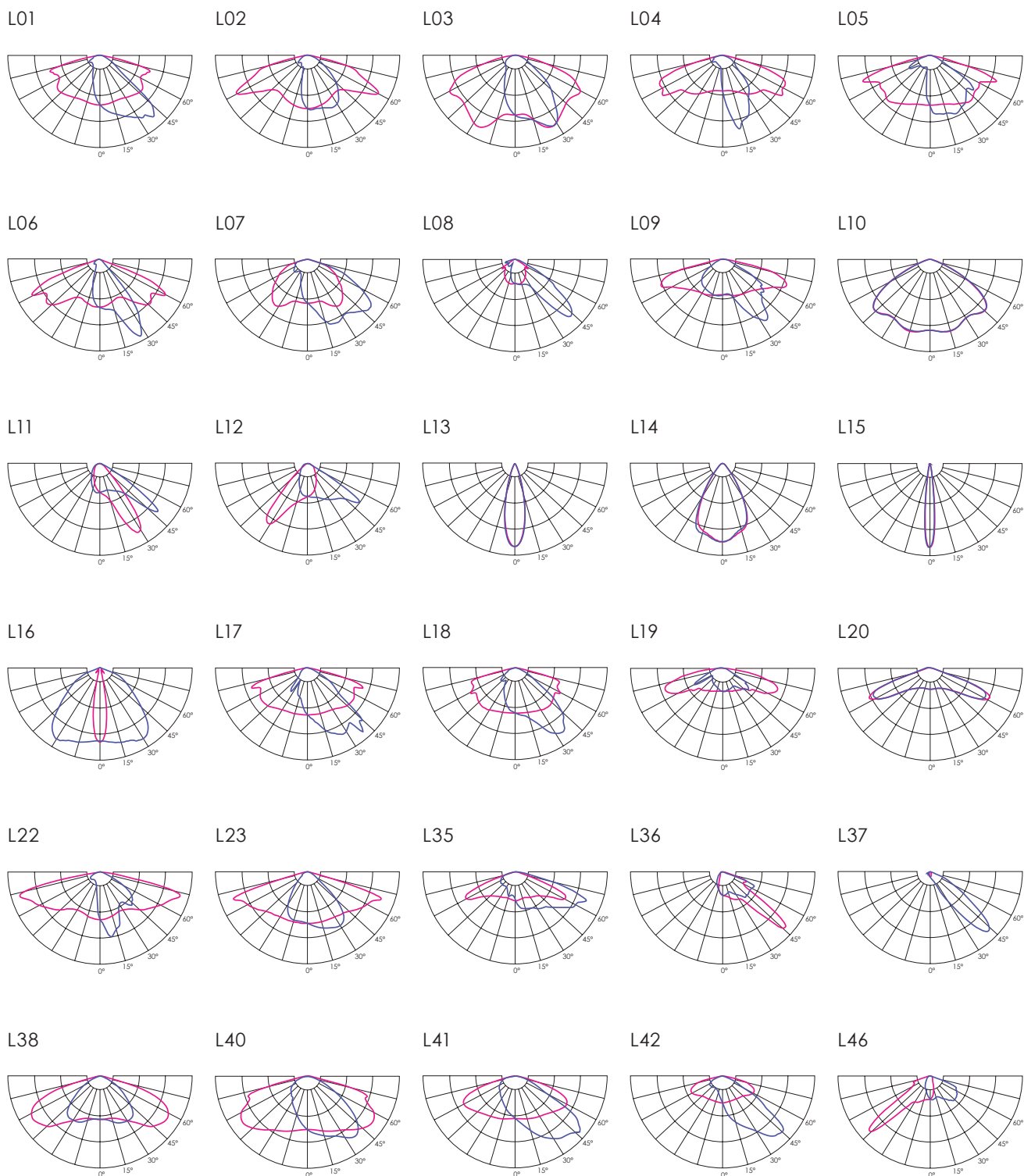
<sup>(1)</sup> 1 core unused

<sup>(2)</sup> DALI wires used only for internal connection between driver and Zhaga socket(s)

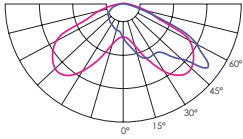
<sup>(3)</sup> +2 cores for external DALI connection

# Optics

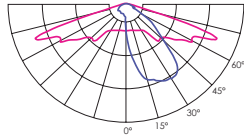
## Standard modules



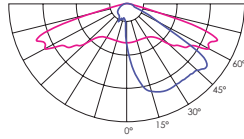
L55



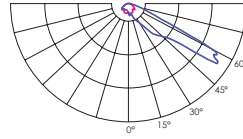
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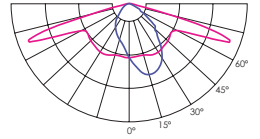
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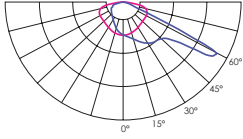
L60



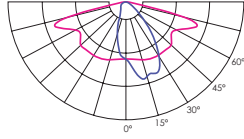
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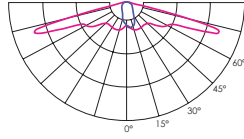
L66



L90

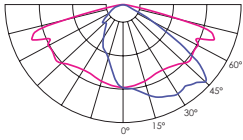


L94

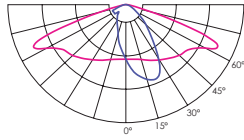


High density modules

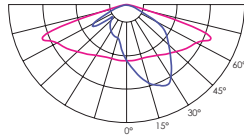
V01



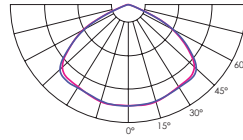
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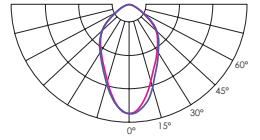
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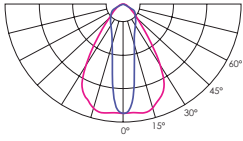
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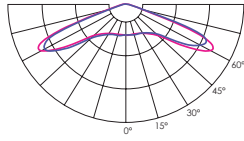
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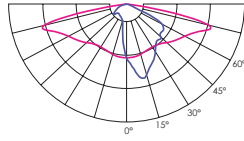
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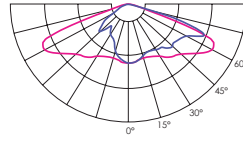
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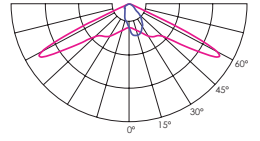
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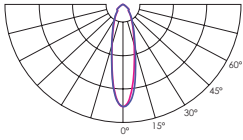
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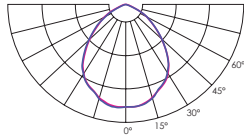
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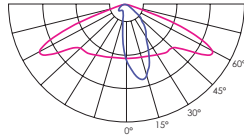
V52



V53



V57





# Pedestrian crossing optics



<b>V</b>	198 - 264	<b>Body:</b>	Die-cast aluminium
<b>Hz</b>	50 - 60	<b>Dimming:</b>	DALI / 1 - 10 V / Midnight dimming / Step dimming / Mains dimming
<b>W</b>	5 - 75 <sup>(1)</sup> 15 - 75 <sup>(2)</sup>	<b>Initial chromaticity:</b>	MacAdam 5
<b>lm</b>	Up to 11762 <sup>(1)</sup> Up to 11766 <sup>(2)</sup>	<b>Lifetime:</b>	Eco 100 000 h (L90B10) at Ta = 25 °C* / Standard 100 000 h (L98B10) at Ta = 25 °C*
<b>lm/W</b>	95 - 157 <sup>(1)</sup> 116 - 167 <sup>(2)</sup>	<b>Warranty:</b>	5 years
<b>K</b>	2700 / 3000 / 4000 <sup>(3)</sup>	<b>Installation:</b>	Tool-less
<b>°C</b>	-40 to +50   5 - 65 W -40 to +35   65 - 75 W	<b>Spigot:</b>	32 - 40 mm <sup>(4)</sup> / 40 - 60 mm / 60 - 76 mm
<b>CRI</b>	>70 / >80 / >90 <sup>(3)</sup>	<b>Socket:</b>	NEMA / Top and Bottom Zhaga
		<b>Intelligent Control:</b>	Stand-alone / Group / CMS
		<b>Sensor:</b>	Motion / Motion + Daylight / Daylight
		<b>Surge protection:</b>	4 / 6 / 10 kV <sup>(5)</sup>
		<b>Nature friendly:</b>	PC Amber / Red / 1800 K
		<b>Corrosion protection:</b>	Up to C5
		<b>Neto weight:</b>	Up to 5.8 kg
		<b>Max. wind load area, SCd, m<sup>2</sup>:</b>	0.059

<sup>1)</sup> Standard modules, lumen output indicated at CRI > 70

<sup>2)</sup> ECO modules, lumen output indicated at CRI > 70

<sup>3)</sup> 1800 / 2200 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT

<sup>4)</sup> Achievable with an adapter for 40 - 60 mm spigot

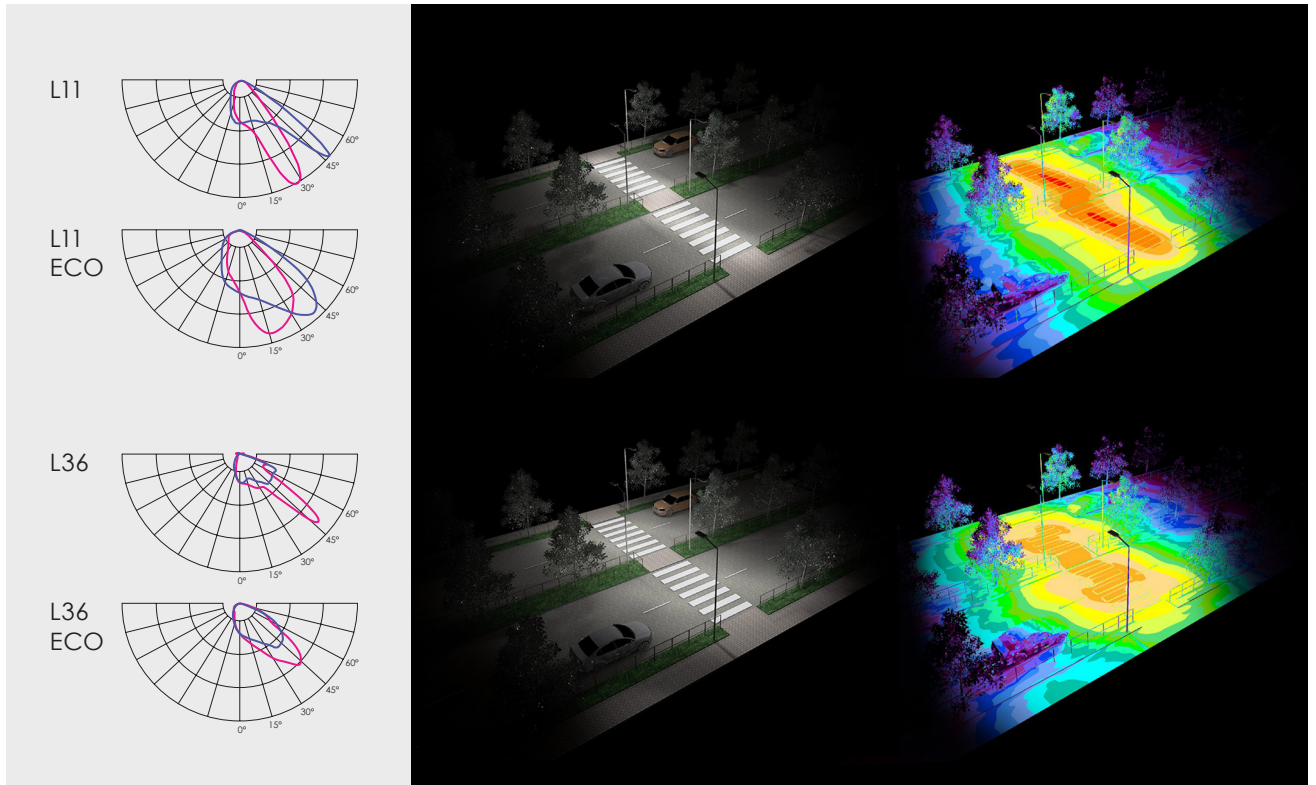
<sup>5)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>6)</sup> Coming soon

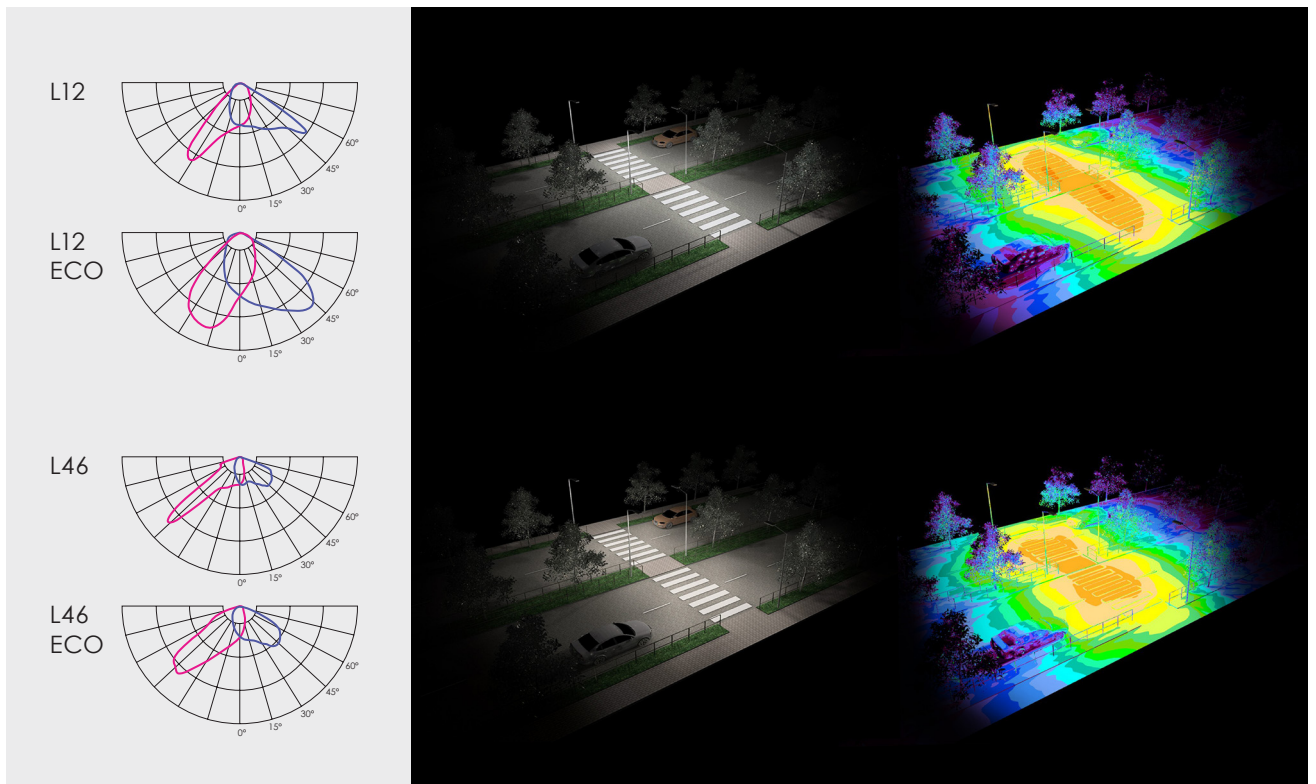
\*This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models. And high power and high current luminaire models may have negative lifetime deviation comparing to standard models. To receive precise value please contact VIZULO export representatives.

Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes.

## Right side traffic



## Left side traffic



# Backlight cutter

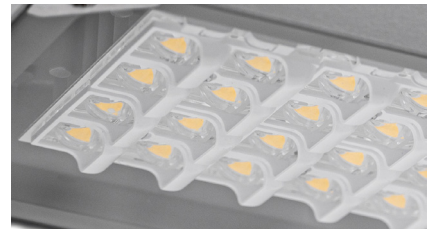
## Backlight cutter | black

Art. 70000661



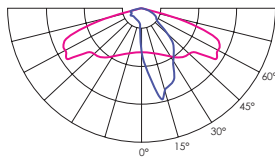
## Backlight cutter | white

Art. 70000662

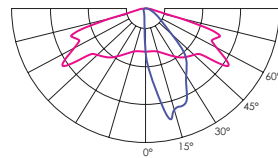


Optical losses from 10% to 31% depending from used optic.

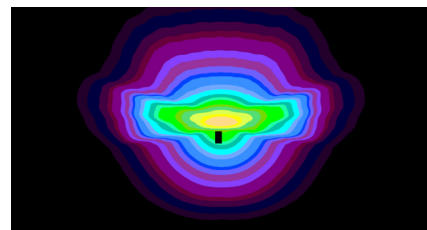
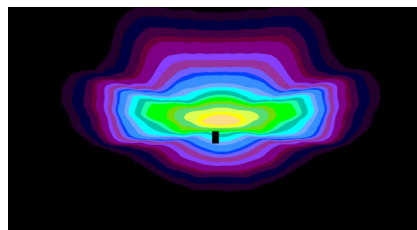
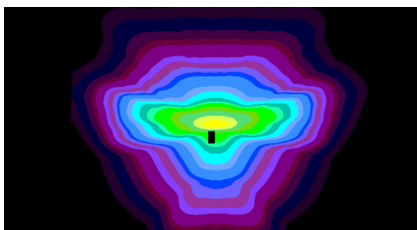
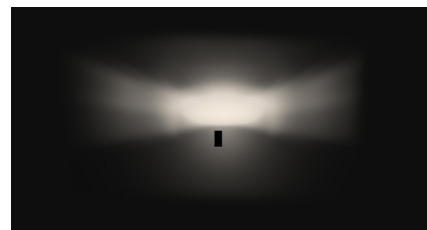
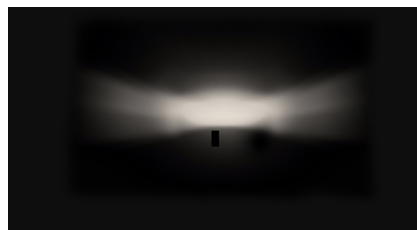
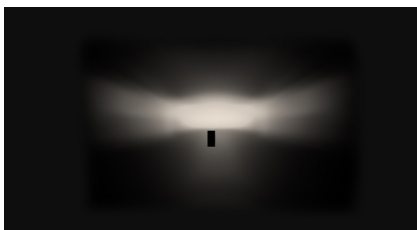
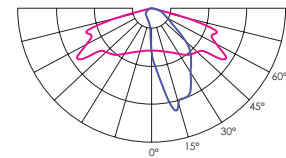
Without backlight cutter



Backlight cutter | black



Backlight cutter | white

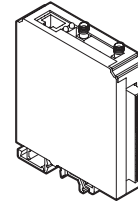


# Accessories

## Citintelly Segment controller

Art. 70010004

Segment Controller receives commands from Citintelly server via GSM and transmits tasks to Luminaire Controller via radio frequency communication.



## Citintelly Surge Protection device

Art. 70020001

Surge Protection device offers protection against lightning surges;

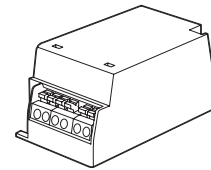
Voltage Protection level up (L-N)  $\leq 1,5$  kV

Voltage Protection level up (L/N-PE)  $\leq 2,0$  kV

$U_{oc} = 10$  kV

$I_{max} = 10$  kA

$I_{nom} = 5$  kA



## Radio Frequency Antenna

Art. 70000108

Heavy duty IP67 enclosure

Mounted in cabinet or luminaire body

with 14 mm screw

SMA connector



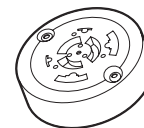
## NEMA Socket

2213362-3, 5 pin NEMA socket 105°C wires

Art. 70000362

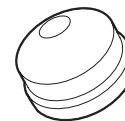
2213362-4, 7 pin NEMA socket 105°C wires

Art. 70000333



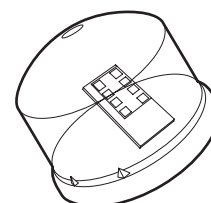
## Dummy Link for NEMA Socket

Art. 70000113



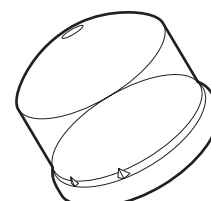
## MSLC205RG Luminaire controller + radar, Zhaga, 80 mm

Art. 70010027



## MSLC205RGL Luminaire controller, Zhaga, 80 mm

Art. 70010029



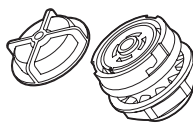
**Zhaga socket no cap**

Art. 70000612



**Zhaga socket with cap**

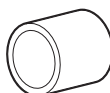
Art. 70000613



**Console adapter**

40 mm to 30 mm

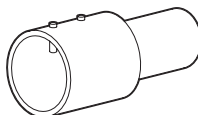
Art. 70055002



**Console adapter**

Spigot size 60 - 76 mm

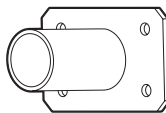
Art. 70044002



**Wall mounting bracket**

Spigot size 40 - 60 mm

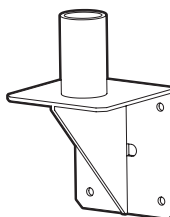
Art. 70044001



**Wall mounting bracket**

Vertical

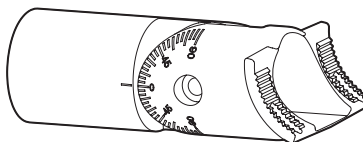
Art. 70044004



**Stork LS adjustable console ±90°**

40 - 60 mm, RAL 9006

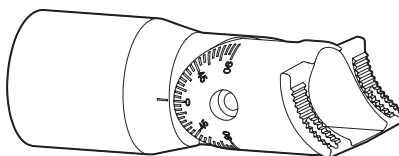
Art. 70044097



**Stork LS adjustable console ±90°**

60 - 76 mm, RAL 9006

Art. 70044099

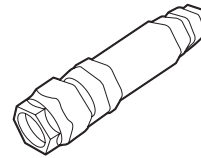




### Device connector

Art. 70000315

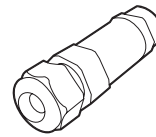
IP66 rated connector offers easy installation of the street luminaires.  
4 wire cable connector without PE connection.



### Connector

Art. 70000313

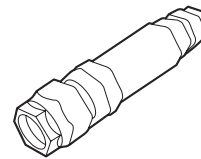
IP66 rated connector offers easy installation of the street luminaires.  
3 wire cable connector



### Connector

Art. 70000304

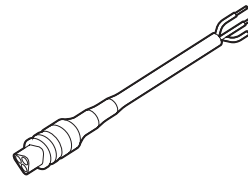
IP66 rated connector offers easy installation of the street luminaires.  
5 wire cable connector



### Connection cable

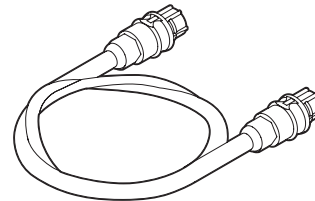
Art. 70000363

Male - free end, length 1 m, RST20i3, 3 pole, 250 V,  
16 A, cable type H05VV, cross section 1,5 mm<sup>2</sup>



### Pre-installed cable sets For external power supply

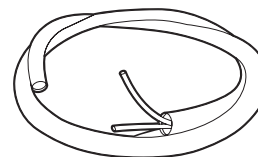
0,5 m long cable.....	Art. 70000436
5 m long cable.....	Art. 70000437
6 m long cable.....	Art. 70000438
8 m long cable.....	Art. 70000439
10 m long cable.....	Art. 70000440
12 m long cable.....	Art. 70000441
18 m long cable.....	Art. 70000442
20 m long cable.....	Art. 70000443
22 m long cable.....	Art. 70000444
25 m long cable.....	Art. 70000445



### Pre-installed cable sets

For internal power supply:

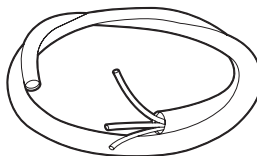
2 x 1,5 mm - 0,5 m long cable.....	Art. 70000418
2 x 1,5 mm - 5 m long cable.....	Art. 70000342
2 x 1,5 mm - 6 m long cable.....	Art. 70000337
2 x 1,5 mm - 8 m long cable.....	Art. 70000344
2 x 1,5 mm - 10 m long cable.....	Art. 70000338
2 x 1,5 mm - 12 m long cable.....	Art. 70000345
2 x 1,5 mm - 18 m long cable.....	Art. 70000419



### Pre-installed cable sets

For internal power supply:

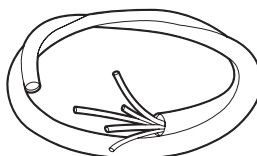
3 x 1,5 mm - 0,5 m long cable.....	Art. 70000319
3 x 1,5 mm - 5 m long cable.....	Art. 70000320
3 x 1,5 mm - 6 m long cable.....	Art. 70000321
3 x 1,5 mm - 8 m long cable.....	Art. 70000322
3 x 1,5 mm - 10 m long cable.....	Art. 70000323
3 x 1,5 mm - 12 m long cable.....	Art. 70000324
3 x 1,5 mm - 18 m long cable.....	Art. 70000325
3 x 1,5 mm - 20 m long cable.....	Art. 70000425
3 x 1,5 mm - 22 m long cable.....	Art. 70000426
3 x 1,5 mm - 25 m long cable.....	Art. 70000427
3 x 1,5 mm - 32 m long cable.....	Art. 70000430
3 x 1,5 mm - 42 m long cable.....	Art. 70000431
3 x 1,5 mm - 50 m long cable.....	Art. 70000432



### Pre-installed cable sets

For internal power supply:

5 x 1,5 mm - 0,5 m long cable.....	Art. 70000305
5 x 1,5 mm - 5 m long cable.....	Art. 70000316
5 x 1,5 mm - 6 m long cable.....	Art. 70000317
5 x 1,5 mm - 8 m long cable.....	Art. 70000318
5 x 1,5 mm - 10 m long cable.....	Art. 70000306
5 x 1,5 mm - 12 m long cable.....	Art. 70000307
5 x 1,5 mm - 18 m long cable.....	Art. 70000308
5 x 1,5 mm - 20 m long cable.....	Art. 70000428
5 x 1,5 mm - 22 m long cable.....	Art. 70000429
5 x 1,5 mm - 25 m long cable.....	Art. 70000429
5 x 1,5 mm - 32 m long cable.....	Art. 70000433
5 x 1,5 mm - 42 m long cable.....	Art. 70000434
5 x 1,5 mm - 50 m long cable.....	Art. 70000435



# Certification



**CE** – conformity with European Union's health, safety and environmental protection standards

The CE mark is placed on products to state conformity with the relevant EU health, safety and environmental protection standards. In case of electronic products, the standards are, for example, the Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive, Waste Electrical and Electronic Equipment (WEEE) directive, the Electromagnetic Compatibility (EMC) directive etc. The mark ensures that the product can be sold anywhere in the European Economic Area (EEA).



**UKCA** - conformity with the relevant essential requirements of Great Britain

UKCA is a product mark intended to demonstrate compliance with the directives set by Great Britain (England, Scotland and Wales). It is analogous to the European Union's CE marking, meaning that depending on the type of product the applicable regulations are different. In case of LED lighting, the relevant requirements are compliance with the Electromagnetic Compatibility Regulations, the Electrical Equipment (Safety) Regulations, the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations and the Ecodesign for Energy-Related Products and Energy Information (Lighting Products) Regulations.

## RoHS

**RoHS** – compliance with European Union's RoHS directive

The RoHS (Restriction of Hazardous Substances in Electrical and Electronic Equipment) directive restricts (with exceptions) the use of ten hazardous materials in the manufacture of various types of electronic and electrical equipment. The aim of the directive is to prevent the risks posed to human health and the environment related to the management of electronic and electrical waste.



\* Coming soon

**Zhaga-D4i** - compliance with the requirements of Zhaga Book 18 or 20 and DALI standard

The Zhaga-D4i Mark represents the fact that a product is certified following the Zhaga-D4i joint certification program – a program established by Zhaga and the DALI Alliance (DiiA). The Zhaga part of the Mark represents that a product meets the requirements of Zhaga Book 18 or 20 – Zhaga standards that describe a smart interface between outdoor luminaires and sensing/ communication nodes. The DALI Alliance part of the Mark signifies that the product conforms with the DALI standard for intelligent, IoT-ready luminaires.



\* Coming soon

**ENEC** - compliance with European standards for electrical equipment

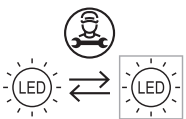
The ENEC Mark is the high quality European Mark for electrical equipment. It is governed by the European Testing Inspection Certification System which ensures that the testing of products is conducted at ENEC – accredited laboratories, following additional requirements regarding the testing procedures. The ENEC Mark means that the testing procedure was followed scrupulously and that the consumer can be certain of the product's safety and quality.



\* Coming soon

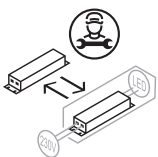
**ENEC+** - compliance with European standards for LED – based electronic products

The ENEC+ Mark is the high quality European Mark for LED – based electronic products. It demonstrates the product's compliance with the IEC standards for performance of LED modules and LED based luminaires. The ENEC+ Mark can only be granted to a product that has already acquired the ENEC Mark.



**LED module replaceable by a professional**

This pictogram shows that the LED modules included in the luminaire are only replaceable by a professional. This labeling is a requirement following the introduction of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.



**LED driver replaceable by a professional**

This pictogram shows that the LED driver included in the luminaire is only replaceable by a professional. This labeling is a requirement following the introduction of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.

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