



Aba-Szer Fém bútör Kft.

LEDES PARK VILÁGÍTÁS /2014  
LEDES UTCAI VILÁGÍTÁS /2014  
OUTDOOR LIGHTING LED COLLECTION /2014

## PARK LIGHTING



## STREET LIGHTING



## INDUSTRIAL LIGHTING



PARK LIGHTING		KARIN LED	44
ELBA LED	10	KARIN DECOR LED	46
ATLANTIS LED	12	SAL DECO 3 LED	48
MIRA LED	14		
MIZAR LED	16	STREET LIGHTING	
OS-1 LED	18	CUDDLE LED	50
VEGA LED	20	FLOAT LED	52
VEGA LED BETA	22	PHASE LED	54
CORONA LED	24	MAGNOLIA LED	56
COSMO DELTA LED	26	COSMO LED	58
GEMINI LED	28	ANDROMEDA LED	60
DROP LED	30	URSA I LED	62
DROP I LED	32	URSA II LED	64
DROP II LED	34	ARTEMIS LED	66
FLEXI LED	36	GULLWING LED	68
CORE LED	38	INDUSTRIAL LIGHTING	
CUT LED	40	LIBRA LED	70
STICK LED	42	TAURUS LED	72



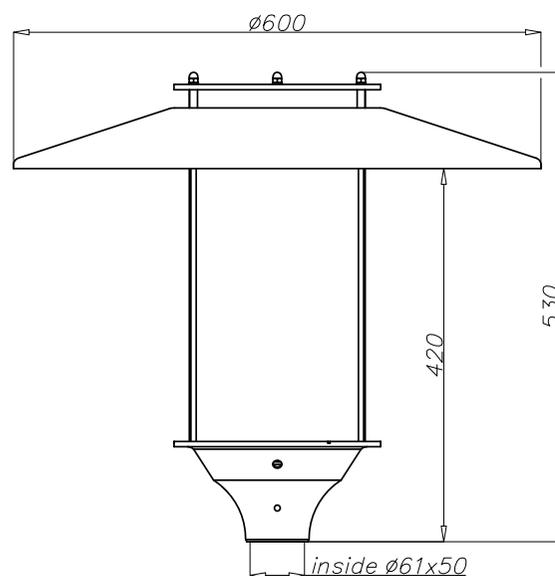
## CHARACTERISTICS

ELBA LED is designed to illuminate pedestrian ways, parks and squares. The light source is LED CREE LMH2. The luminaire is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+55^{\circ}\text{C}$ . It is designed for mounting on columns 4 m to 6 m high.

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### The advantages of using ELBA LED compared to luminaire ELBA S-70W:

- 45,57% reduction of luminaire energy consumption,
- up to 61,90% reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.



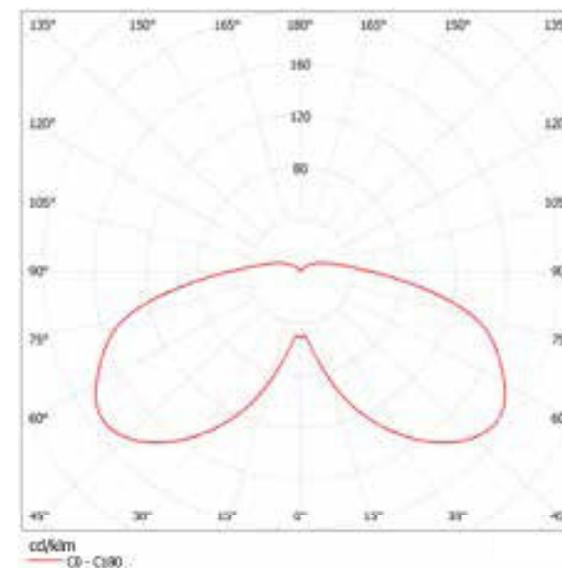
## TECHNICAL DATA

Type	ELBA LED	
Code	213050/3**	213150/3***
Colour temperature [K]	3500	
LEDs power [W]	38	
Total power [W]	43	
Luminous efficiency [lm/W]	74	
Luminous flux [lm]	3 200	
Net weight [kg]	5,0	
Unit volume [m <sup>3</sup> ]	0,060	
Windage [m <sup>2</sup> ]	0,115	
Voltage [V]	120 -277 AC 50/60 Hz	

\* due to the precision class of diodes tolerance is +/- 3%

\*\* luminaire's cap painted in black

\*\*\* luminaire's cap painted in other colour



Distribution curve for ELBA LED

ELBA LED

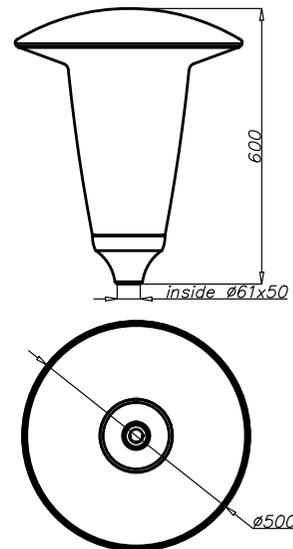


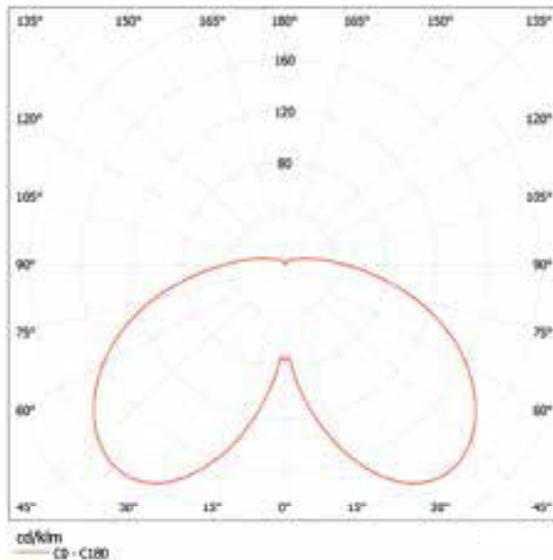
## CHARACTERISTICS

ATLANTIS LED is designed to illuminate parks, squares and pedestrian ways. Luminaire's cap is made of aluminium with a high-performance thermal conductivity, frozen lamp diffuser – PMMA and luminaire's base – aluminium cast. The light source is LED CREE LMH2. The luminaire is adapted to work in temperatures between -40°C and +55°C. It is designed for mounting on columns 4 m to 6 m high.

**The advantages of using ATLANTIS LED 35 compared to OPA-1 S-70W luminaire with lamp diffuser Atlantis white:**

- 49,4% reduction of luminaire energy consumption,
- up to 64,4% reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.





Distribution curve for ATLANTIS LED

## TECHNICAL DATA

Type	
Code	
Colour temperature [K]	ATLANTIS LED
LEDs power [W]	214650/3
Total luminaire power [W]	3 500
Luminous efficiency [lm/W]	38
Luminous flux* [lm]	43
LEDs amount	81
Net weight [kg]	3 500
Unit volume [m <sup>3</sup> ]	16
Windage [m <sup>2</sup> ]	4,6
	0,220
	0,135
Voltage [V]	120-277 AC 50/60 Hz

\* Due to the precision class of diodes tolerance is +/- 3%

# ATLANTIS LED

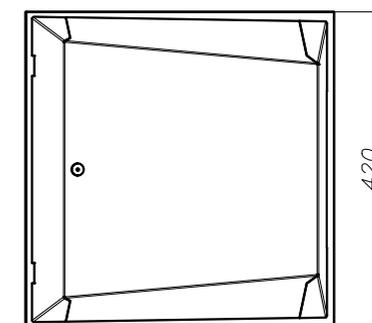
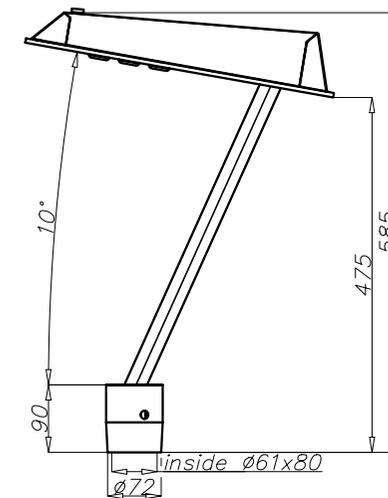


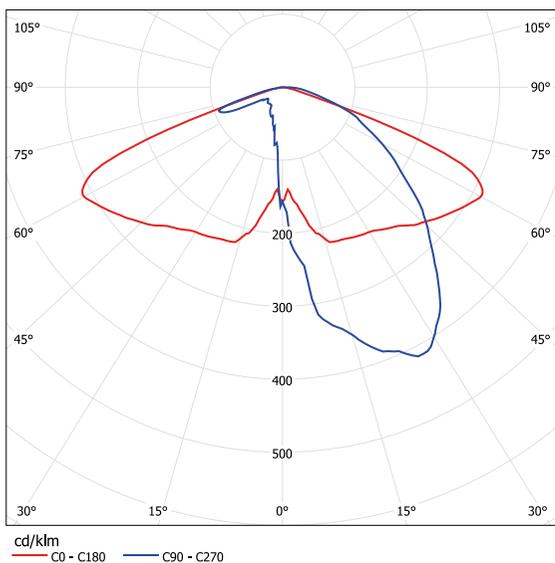
## CHARACTERISTICS

MIRA LED is designed to illuminate parks, squares and pedestrian ways. The light source is CREE XM-L2 LED. The luminaire is adapted to work in temperatures between -40°C and +40°C. It is designed for mounting on columns 4 m to 5 m high.

The advantages of using MIRA LED 36 compared to OPA-1 S-70W Son luminaire with lamp diffuser Atlantis frozen:

- 46,84% reduction of luminaire energy consumption,
- up to 62,9% reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.





Distribution curve for MIRA LED

## TECHNICAL DATA

Type	MIRA LED 36	
Code	214532/6	214532/3
Colour temperature [K]	5 000	3 500
LEDs power [W]	36	
Total luminaire power [W]	42	
Luminous efficiency [lm/W]	111	86
Luminous flux* [lm]	4 650	3 600
LEDs amount	12	
Net weight [kg]	6,1	
Unit volume [m <sup>3</sup> ]	0,115	
Windage [m <sup>2</sup> ]	0,029	
Voltage [V]	120 -277 AC 50/60 Hz	

\* Due to the precision class of diodes tolerance is +/- 3%

MIRA LED

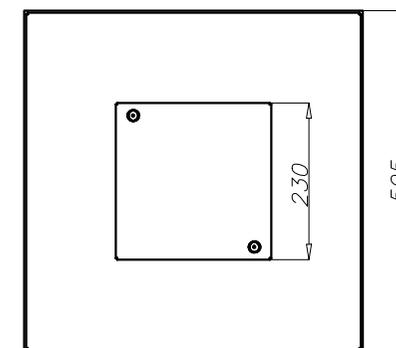
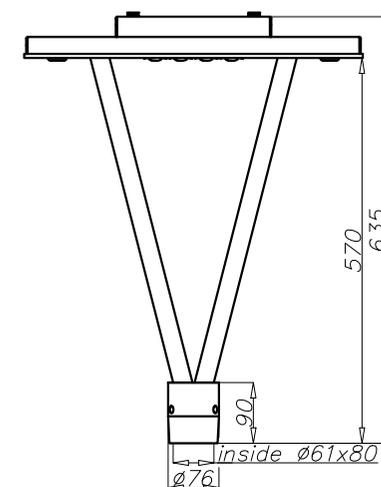


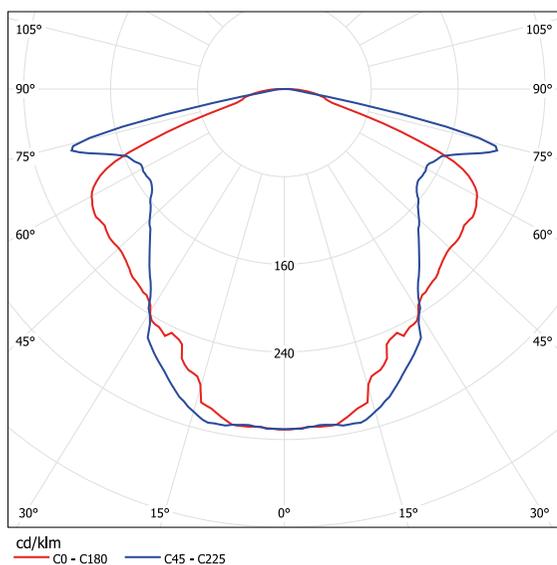
## CHARACTERISTICS

MIZAR LED is designed to illuminate parks, squares and pedestrian ways. The light source is CREE XM-L2 LED. The luminaire is adapted to work in temperatures between -40°C and +55°C. It is designed for mounting on columns 5 m to 6 m high.

**The advantages of using MIZAR LED 48 compared to OPA-1 S-100W Son luminaire with lamp diffuser Auris Maxi I:**

- 50,89% reduction of luminaire energy consumption,
- up to 65,6% reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.





Distribution curve for MIZAR LED

## TECHNICAL DATA

Type	MIZAR LED 48	
Code	214433/6	214433/3
Colour temperature [K]	5 000	3 500
LEDs power [W]	48	
Total luminaire power [W]	55	
Luminous efficiency [lm/W]	113	88
Luminous flux* [lm]	6 200	4 850
LEDs amount	16	
Net weight [kg]	9,2	
Unit volume [m <sup>3</sup> ]	0,172	
Windage [m <sup>2</sup> ]	0,057	
Voltage [V]	120-277 AC 50/60 Hz	

\* Due to the precision class of diodes tolerance is +/- 3%

MIZAR LED



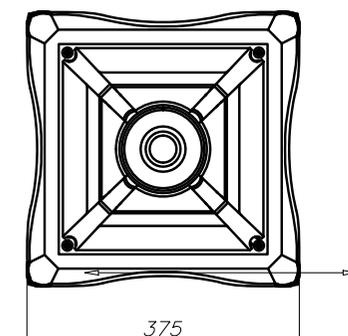
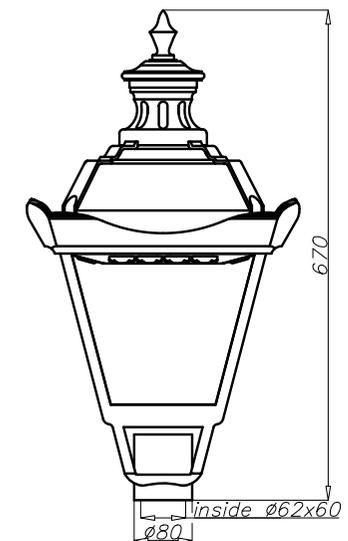
## CHARACTERISTICS

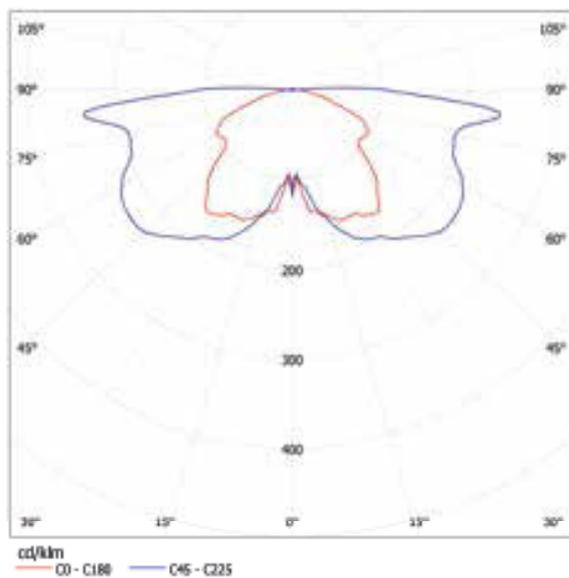
OS-1 LED is designed to illuminate parks, squares and pedestrian ways. It is made of mixture of black polypropylene with glass fibre resistant for UV radiation. The light source is CREE XM-L2 LED. The luminaire is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+40^{\circ}\text{C}$ . It is designed for mounting on columns 5 m to 6 m high.

There was made a reduction in the supply current to 700 mA in OS-1 LED luminaire in order to achieve maximum energy-savings, heat reducing and extending the life of diodes.

### The advantages of using OS-1 LED 32 compared to OS-1 S-70W Son luminaire:

- 50,63% reduction of luminaire energy consumption,
- up to 65,3% reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.





Distribution curve for OS-1 LED

## TECHNICAL DATA

Type	OS-1 LED 32	
Code	211331/6	211331/3
Colour temperature [K]	5 000	3 500
LEDs power [W]	32	
Total luminaire power [W]	39	
Luminous efficiency [lm/W]	97	72
Luminous flux* [lm]	3 800	2 800
LEDs amount	16	
Net weight [kg]	5,2	
Unit volume [m <sup>3</sup> ]	0,1	
Windage [m <sup>2</sup> ]	0,1	
Voltage [V]	120 -277 AC 50/60 Hz	

\* Due to the precision class of diodes tolerance is +/- 3%

OS-1 LED



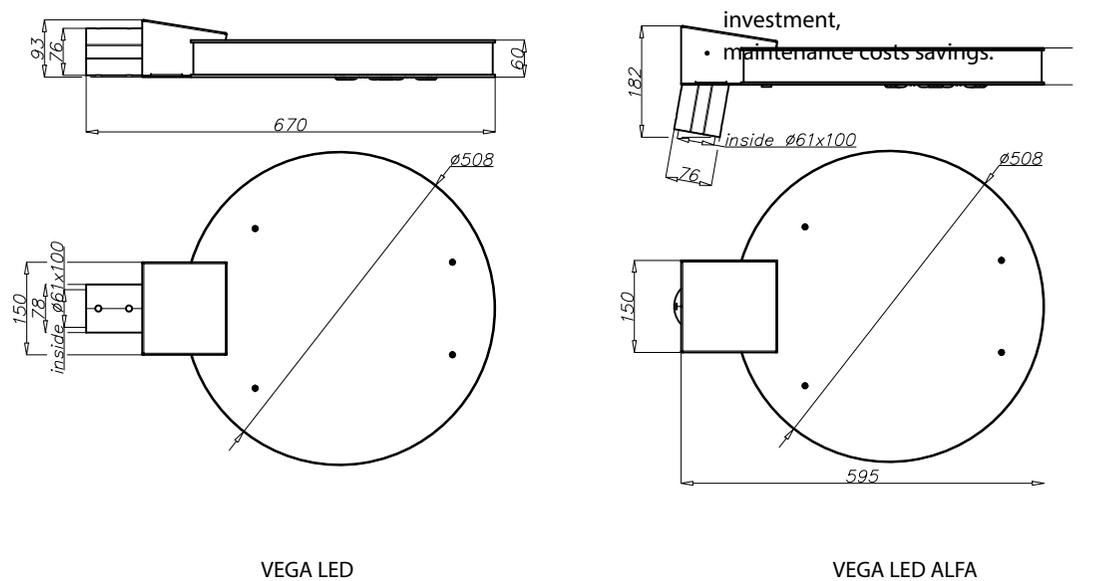
## CHARACTERISTICS

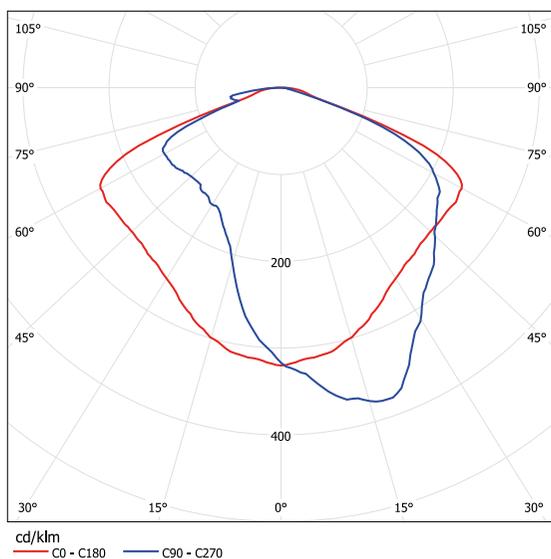
VEGA LED is designed to illuminate pedestrian ways, parks and squares. The light source is CREE XM-L2 LED. The luminaire is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+55^{\circ}\text{C}$ . It is designed for mounting on columns 4,5 m to 8 m high. The luminaire is available in two options:

- VEGA LED – designed for mounting on extension arm,
- VEGA LED ALFA – pole top mounted.

**The advantages of using VEGA LED 60 compared to luminaire OPA-1 S-100W:**

- 39,2% reduction of luminaire energy consumption,
- up to 57,4% reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the





Distribution curve for VEGA LED ALFA

## TECHNICAL DATA

Type	VEGA LED 60 VEGA LED ALFA 60	
	214134/6 214234/6	214134/3 214234/3
Code	214134/6 214234/6	214134/3 214234/3
Colour temperature [K]	5 000	3 500
LEDs power [W]	60	
Total luminaire power [W]	68	
Luminous efficiency [lm/W]	114	89
Luminous flux* [lm]	7 750	6 050
LEDs amount	20	
Net weight [kg]	10,5	
Unit volume <sup>3</sup> [m	0,068 0,099	
Windage <sup>2</sup> [m	0,042	
Voltage [V]	120 -277 AC 50/60 Hz	

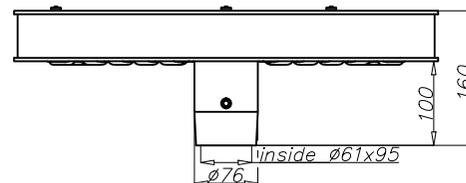
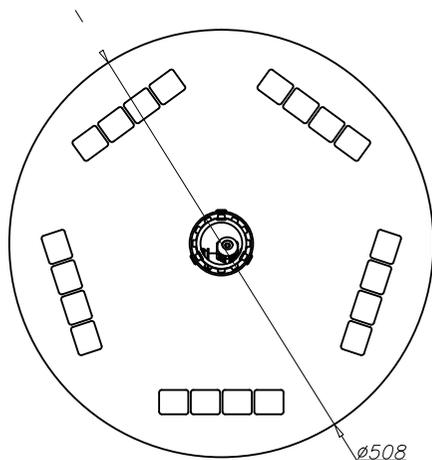
\* Due to the precision class of diodes tolerance is +/- 3%

## CHARACTERISTICS

VEGA LED BETA is designed to illuminate pedestrian ways, parks and squares. The light source is CREE XM-L2 LED. The luminaire is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+55^{\circ}\text{C}$ . It is designed for mounting on columns 4 m to 6 m high in a centric way.

### The advantages of using VEGA LED BETA:

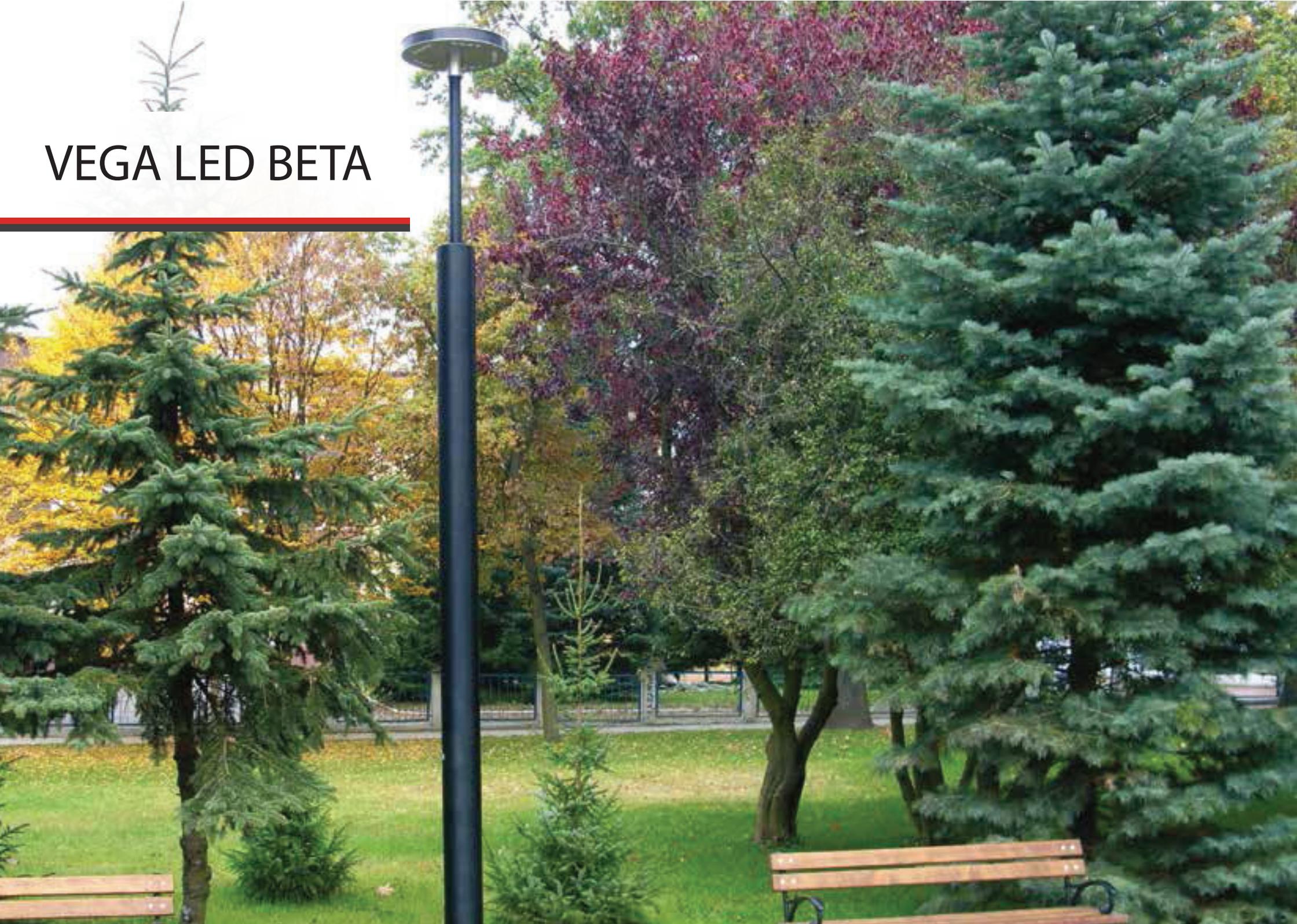
- reduction of energy consumption,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.





# VEGA LED BETA

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# VEGA LED BETA

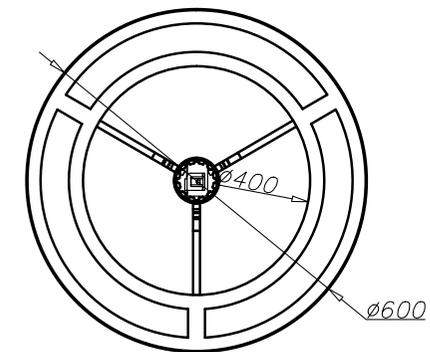
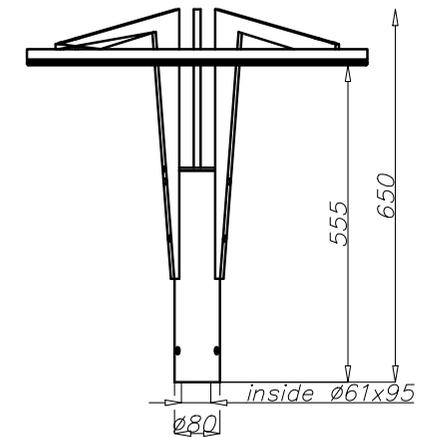
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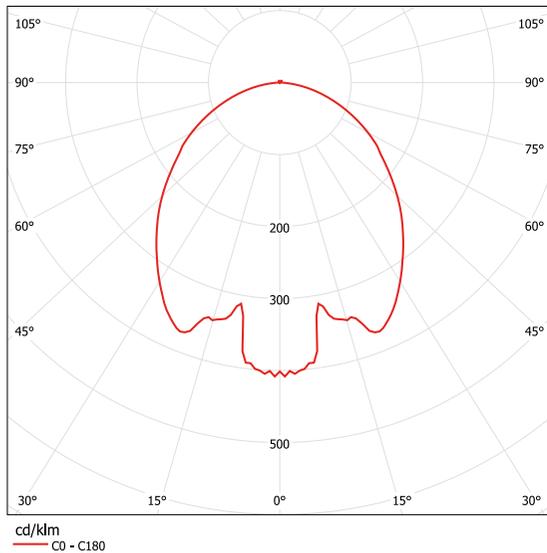
## CHARACTERISTICS

CORONA LED is designed to illuminate parks, squares and pedestrian ways. The light source is CREE XT-E LED. The luminaire is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+55^{\circ}\text{C}$ . It is designed for mounting on columns 5 m to 7 m high. For CORONA LED-luminaire we recommend using aluminium column SAL DL-3.

### The advantages of using CORONA LED:

- reduction of energy consumption,
- maintenance costs savings,
- decorative character.





Distribution curve for CORONA LED

## TECHNICAL DATA

Type	CORONA LED 75
Code	214735/6
Colour temperature [K]	5 000
LEDs power [W]	75
Total luminaire power [W]	88
Luminous efficiency [lm/W]	55
Luminous flux* [lm]	4 900
LEDs amount	36
Net weight [kg]	13
Unit volume [m <sup>3</sup> ]	0,25
Windage [m <sup>2</sup> ]	0,095
Voltage [V]	120-277 AC 50/60 Hz

\* Due to the precision class of diodes tolerance is +/- 3%.

CORONA LED

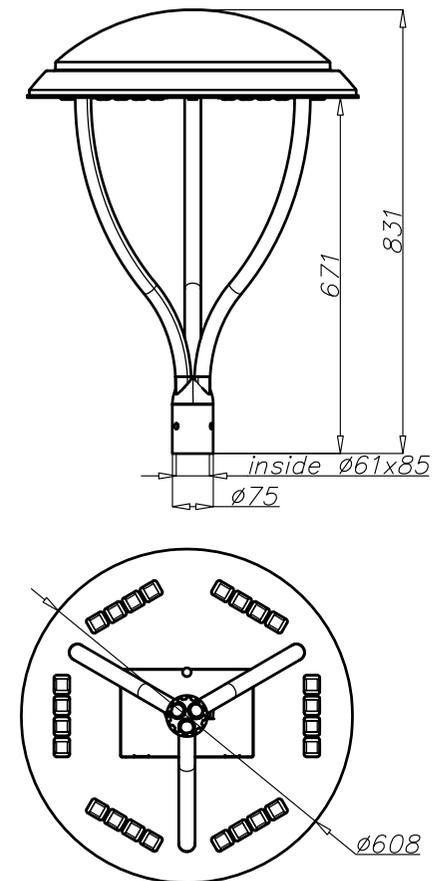


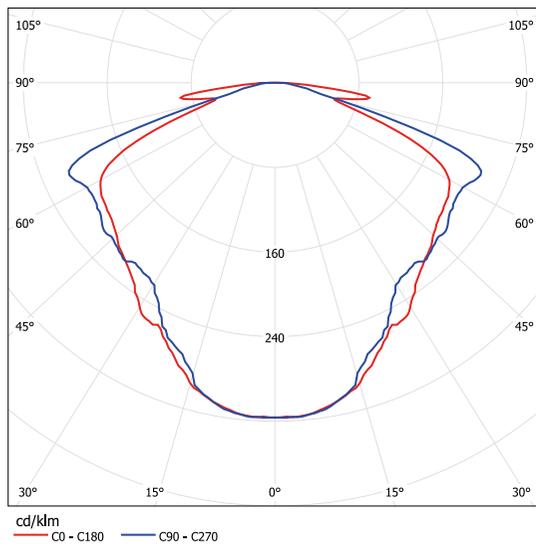
## CHARACTERISTICS

COSMO DELTA LED is designed to illuminate parks, squares and pedestrian ways. The light source is CREE XM-L2 LED. The luminaire is adapted to work in temperatures between -40°C and +55°C. It is designed for mounting on columns 6 m to 8 m high. For COSMO DELTA LED luminaire we recommend using aluminium column SAL DL-4.

**The advantages of using COSMO DELTA LED compared to OPA-1 S-100W Son luminaire with lamp diffuser Auris Maxi with a cap:**

- 28,57% reduction of luminaire energy consumption,
- up to 50% reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.





Distribution curve for COSMO DELTA LED

## TECHNICAL DATA

Type	COSMO DELTA LED 72	
Code	214835/6	214835/3
Colour temperature [K]	5 000	3 500
LEDs power [W]	72	
Total luminaire power [W]	80	
Luminous efficiency [lm/W]	117	91
Luminous flux* [lm]	9 350	7 250
LEDs amount	24	
Net weight [kg]	11	
Unit volume [m <sup>3</sup> ]	0,32	
Windage [m <sup>2</sup> ]	0,13	
Voltage [V]	120 -277 AC 50/60 Hz	

\* Due to the precision class of diodes tolerance is +/- 3%

# COSMO DELTA LED

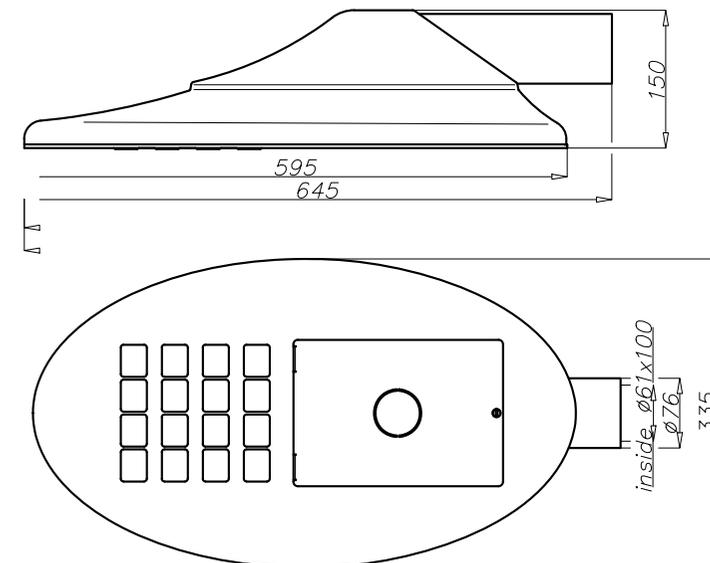


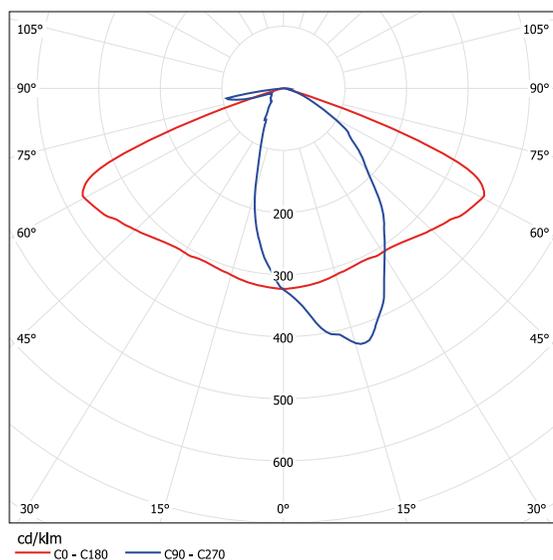
## CHARACTERISTICS

GEMINI LED is designed to illuminate streets and pedestrian ways. The light source is CREE XM-L2 LED. The luminaire is adapted to work in temperatures between -40°C and +40°C. It is designed for mounting on columns 5 m to 6 m high.

### The advantages of using GEMINI LED 48 compared to MAGNOLIA S-70W Son:

- 30,38 % reduction of luminaire energy consumption,
- up to 51,2 % reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.





Distribution curve for GEMINI LED

## TECHNICAL DATA

Type	GEMINI LED 36		GEMINI LED 48	
	Code	214332/6	214332/3	214333/6
Colour temperature [K]	5 000	3 500	5 000	3 500
LEDs power [W]	36		48	
Total luminaire power [W]	42		55	
Luminous efficiency [lm/W]	111	86	113	88
Luminous flux* [lm]	4 650	3 600	6 200	4 850
LEDs amount	12		16	
Net weight [kg]	8		8	
Unit volume [m <sup>3</sup> ]	0,035		0,035	
Windage [m <sup>2</sup> ]	0,065		0,065	
Voltage [V]	120 -277 AC 50/60 Hz			

\* Due to the precision class of diodes tolerance is +/- 3%

GEMINI LED



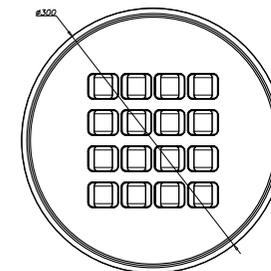
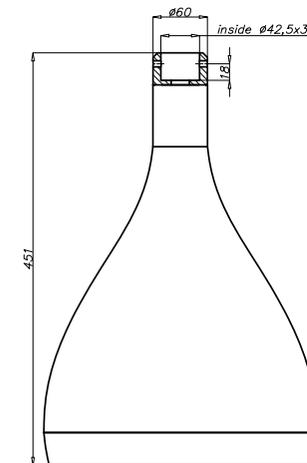
## CHARACTERISTICS

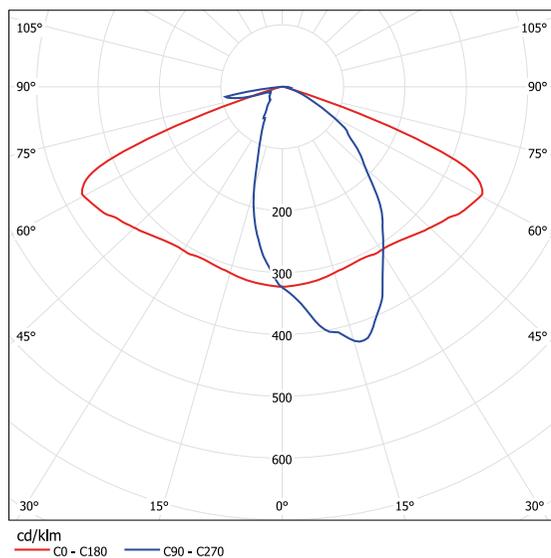
DROP LED park luminaire is designed to illuminate parks, squares and pedestrian ways. The light source is CREE XM-L2 LED. The luminaire is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+40^{\circ}\text{C}$ . It is designed to be mounted on columns 5 m to 6 m high. It is adapted to mount on the extension arms with spigot ending  $\varnothing 42$  mm. Available with symmetric and asymmetric optics configuration.

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### The advantages of using DROP LED 48 compared to OW S-70W Son luminaire with lamp diffuser Cone white:

- 30.38% reduction of luminaire energy consumption,
- up to 51.2% reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.





Distribution curve for DROP LED, asymmetric optics

## TECHNICAL DATA

Type	DROP LED 48	
Code	214933/6/A** 214933/6/S***	214933/3/A** 214933/3/S***
Colour temperature [K]	5 000	3 500
LEDs power [W]	48	
Total luminaire power [W]	55	
Luminous efficiency [lm/W]	113	88
Luminous flux* [lm]	6 200	4 850
LEDs amount	16	
Net weight [kg]	6,5	
Unit volume [m <sup>3</sup> ]	0,041	
Windage [m <sup>2</sup> ]	0,075	
Voltage [V]	120 -277 AC 50/60 Hz	

\* Due to the precision class of diodes tolerance is +/- 3% \*\* A - asymmetric optics \*\*\* S- symmetric optics

DROP LED

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## CHARACTERISTICS

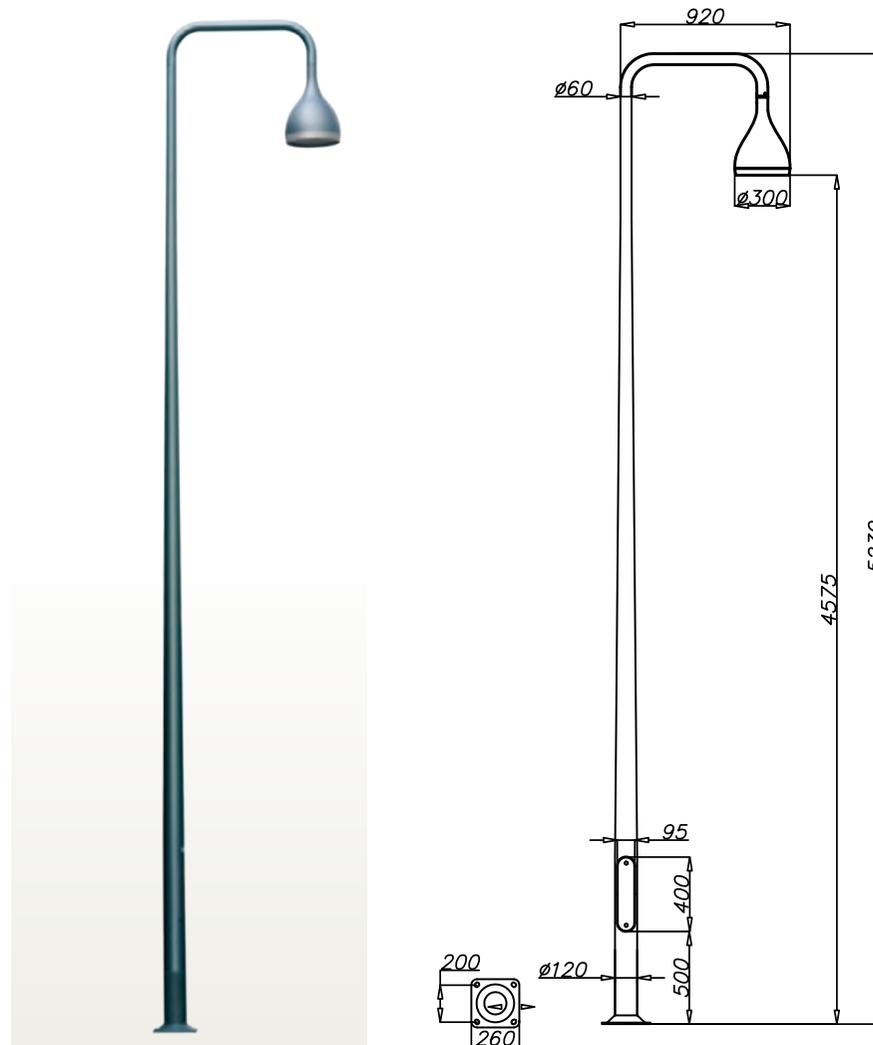
DROP LED is available in a lighting set DROP I LED consisting of DROP LED luminaire, single aluminium extension arm and aluminium column.

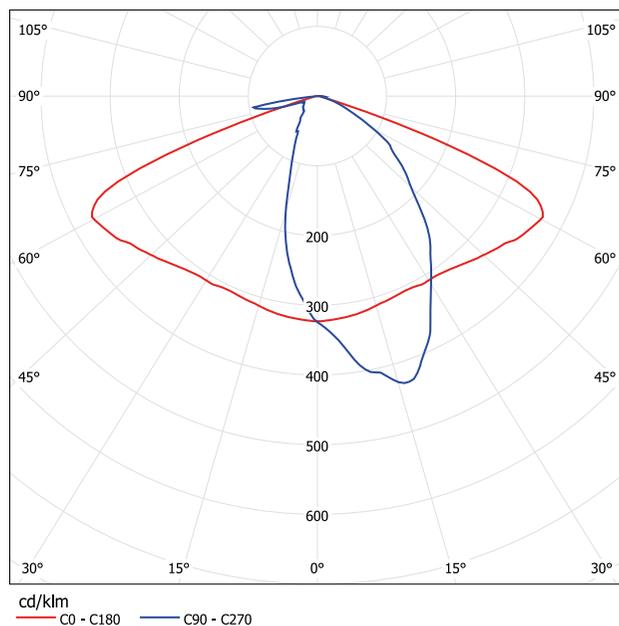
The lighting set is designed to illuminate pedestrian ways, streets, parks and squares.

The light source is CREE XM-L2 LED.

It is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+40^{\circ}\text{C}$ .

It is available with symmetric and asymmetric optics configuration.





Distribution curve for DROP I LED, asymmetric optics

## TECHNICAL DATA

Type	DROP I LED 48	
Code	215033/6/A** 215033/6/S***	215033/3/A** 215033/3/S***
Colour temperature [K]	5 000	3 500
LEDs power [W]	48	
Total luminaire power [W]	55	
Luminous efficiency [lm/W]	113	88
Luminous flux* [lm]	6 200	4 850
LEDs amount	16	
Net weight [kg]	25,9	
Unit volume [m <sup>3</sup> ]	1,78	
Voltage [V]	120 -277 AC 50/60 Hz	

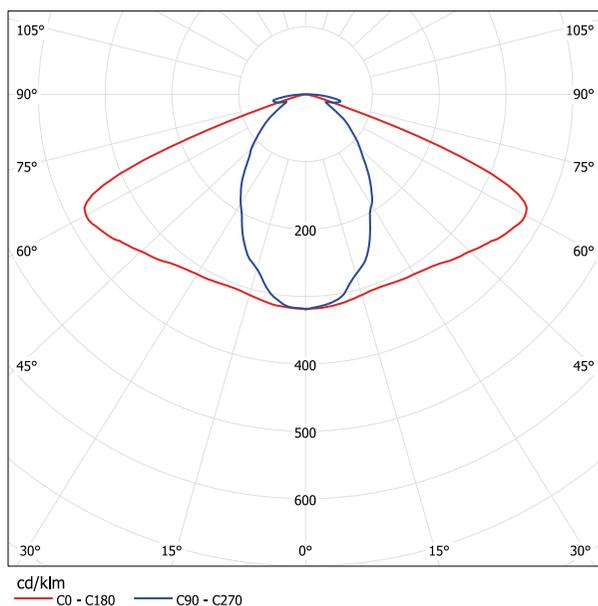
\* Due to the precision class of diodes tolerance is +/- 3%

\*\* A - asymmetric optics \*\*\* S- symmetric optics

DROP | LED







Distribution curve for DROP II LED , symmetric optics

## TECHNICAL DATA

Type	DROP II LED 2 x 48	
Code	215133/6/A** 215133/6/S***	215133/3/A** 215133/3/S***
Colour temperature [K]	5 000	3 500
LEDs power [W]	2 x 48	
Total luminaire power [W]	2 x 55	
Luminous efficiency [lm/W]	113	88
Luminous flux* [lm]	2 x 6 200	2 x 4 850
LEDs amount	2 x 16	
Net weight [kg]	34,9	
Unit volume [m <sup>3</sup> ]	3,01	
Voltage [V]	120-277 AC 50/60 Hz	

\* Due to the precision class of diodes tolerance is +/- 3%

\*\* A - asymmetric optics

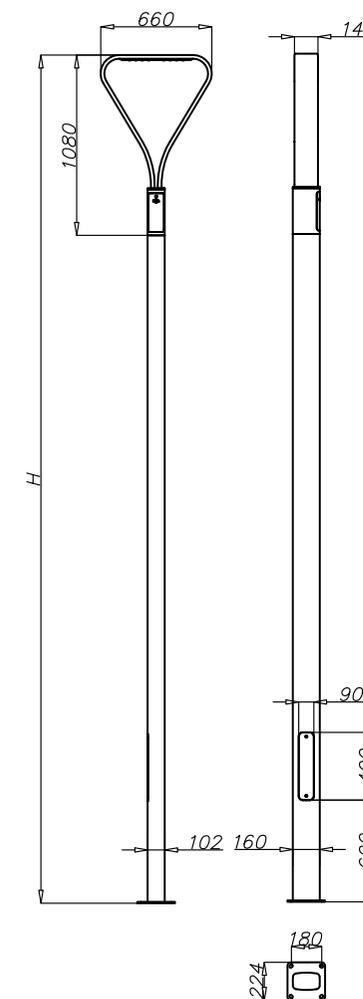
\*\*\* S- symmetric optics

## CHARACTERISTICS

FLEXI LED lighting set is designed to illuminate parks, squares and pedestrian ways. The light source is CREE XM-L2 LED. It is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+55^{\circ}\text{C}$ . It is available in two options of power and height. Available with symmetric and asymmetric optics configuration.

### The advantages of using FLEXI LED:

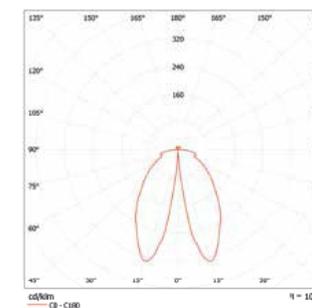
- reduction of annual energy consumption,
- maintenance costs savings,
- decorative character.



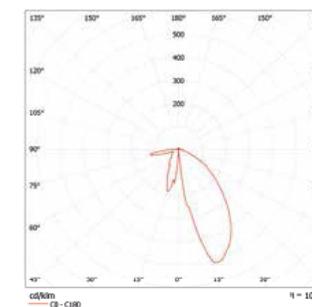
## TECHNICAL DATA

Type	FLEXI LED 24				FLEXI LED 48				
	Code	215530/6/S***	215530/6/A**	215530/3/S***	215530/3/A**	215533/6/S***	215533/6/A**	215533/3/S***	215533/3/A**
Optics type	Symetric	Asymetric	Symetric	Asymetric	Symetric	Asymetric	Symetric	Asymetric	
Colour temperature [K]	5 000	5 000	3 500	3 500	5 000	5 000	3 500	3 500	
LEDs power [W]	24				48				
Total luminaire power [W]	28				55				
Luminous efficiency [lm/W]	86	80	67	63	86	80	67	63	
Luminous flux* [lm]	2 375	2 200	1 850	1 725	4 750	4 400	3 700	3 450	
LEDs amount	8				16				
Height [m]	4				5				
Net weight [kg]	29				32,5				
Unit volume [m <sup>3</sup> ]	0,6				0,75				
Windage [m <sup>2</sup> ]	0,38				0,49				
Voltage [V]	120 -277 AC 50/60 Hz								

\* Due to the diodes tolerance is +/- 3% \*\* A - asymmetric optics \*\*\* S- symmetric optics



Distribution curve for FLEXI, symmetric optics



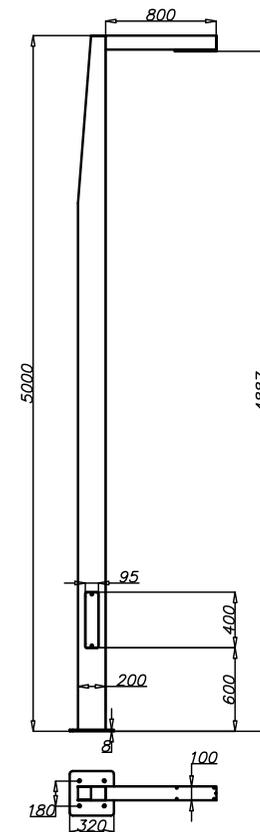
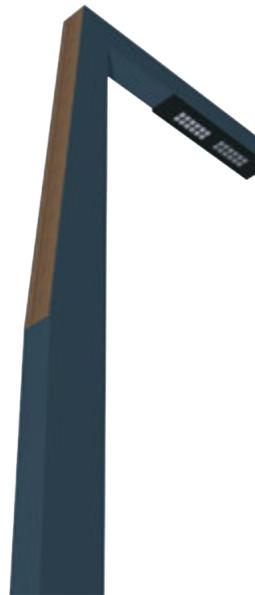
Distribution curve for FLEXI, asymmetric optics

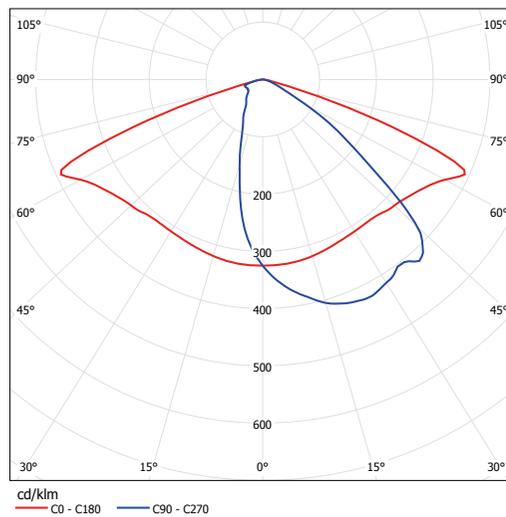
FLEXI LED



## CHARACTERISTICS

CORE LED lighting set is designed to illuminate parks, squares and pedestrian ways. It is made of aluminium profiles anodized grey CORE LED lighting set is designed to illuminate parks, squares and pedestrian ways. It is made of aluminium profiles anodized grey in standard with wooden decorative element in alder colour. The light source is CREE XT-E LED. The lighting set is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+55^{\circ}\text{C}$ .





Distribution curve for CORE LED

## TECHNICAL DATA

Type	CORE LED 24	CORE LED 48
Code	216530/6	216533/6
Colour temperature [K]	5 000	
LEDs power [W]	24	48
Total power [W]	31	55
Luminous efficiency [lm/W]	71	80
Luminous flux [lm]*	2 200	4 400
LEDs amount	12	24
Net weight [kg]	42	
Height [m]	5	
Unit volume [m <sup>3</sup> ]	1,75	
Voltage [V]	120-277 AC 50/60 Hz	

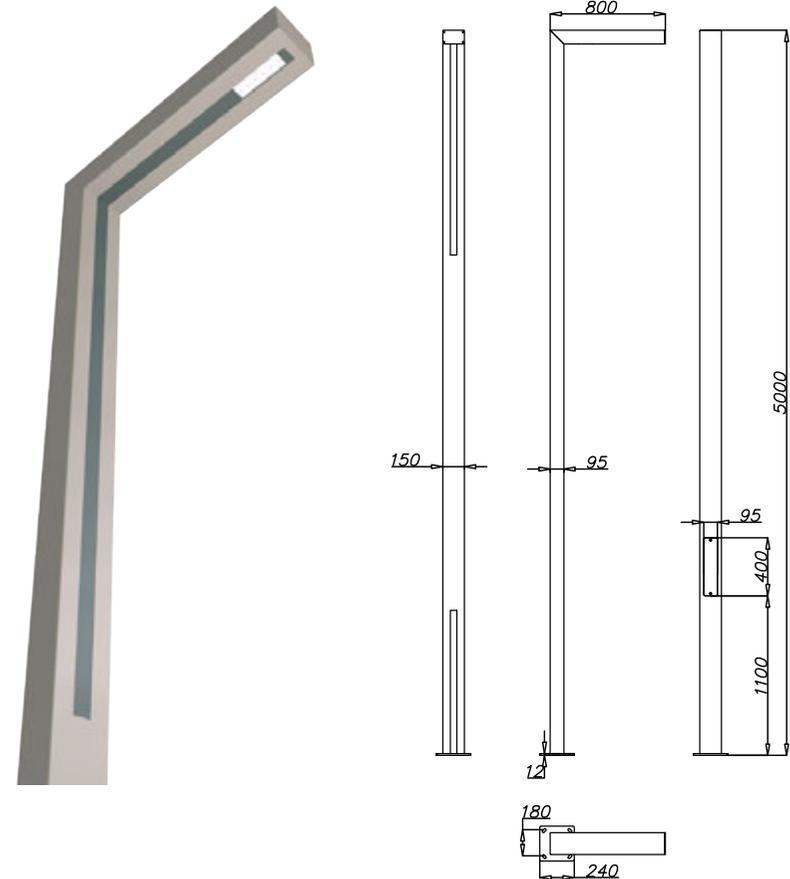
\* Due to the precision class of diodes tolerance is +/- 3%

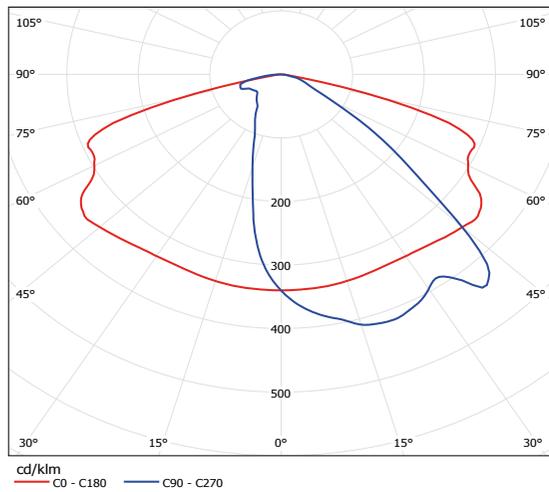
# CORE LED



## CHARACTERISTICS

CUT LED lighting set is designed to illuminate parks, squares and pedestrian ways. It is made of aluminium profiles anodized inox in standard with decorative elements made of aluminium anodized grey or PMMA (there is a possibility to use decorative lighting in these places). The light source is CREE XT-E LED. The lighting set is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+55^{\circ}\text{C}$ .





Distribution curve for CUT LED

## TECHNICAL DATA

Type	CUT LED 24	CUT LED 48
Code	216030/6	216033/6
Colour temperature [K]	5 000	
LEDs power [W]	24	48
Total power [W]	31	55
Luminous efficiency [lm/W]	71	80
Luminous flux [lm]*	2 200	4 400
LEDs amount	12	24
Net weight [kg]	42	
Height [m]	5	
Unit volume [m <sup>3</sup> ]	1,00	
Voltage [V]	120-277 AC 50/60 Hz	

\* Due to the precision class of diodes tolerance is +/- 3%

CUT LED

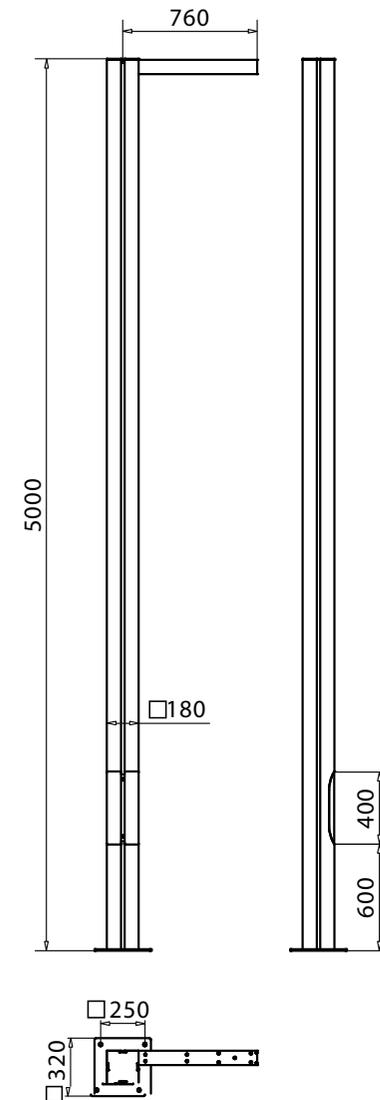
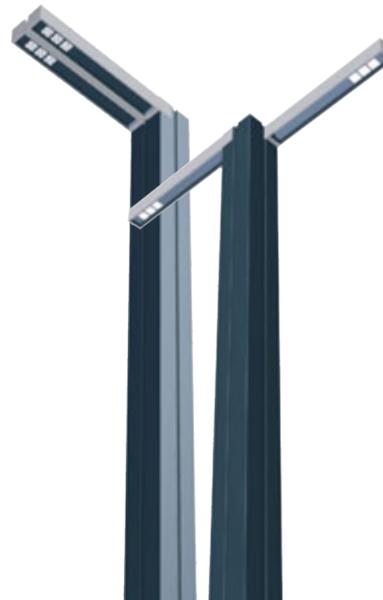


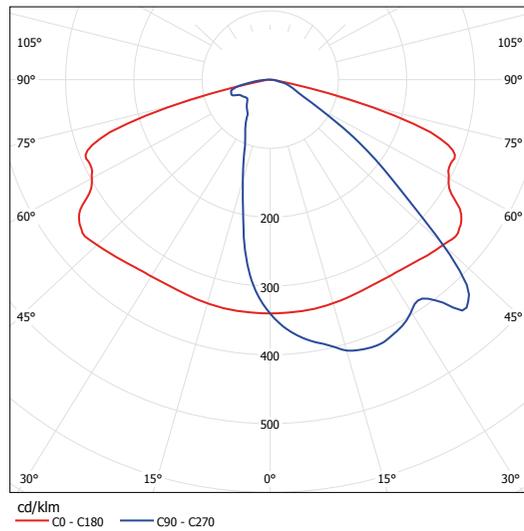
## CHARACTERISTICS

STICK LED lighting set is designed to illuminate parks, squares and pedestrian ways. It is made of aluminium profiles anodized grey and inox in standard with the possibility to configure from 1 to 4 arms, 24 W or 48 W each one. The light source is CREE XT-E LED. The lighting set is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+55^{\circ}\text{C}$ .

**The advantages of using STICK LED:**

- reduction of annual energy consumption,
- maintenance costs savings,
- decorative character.





Distribution curve for STICK LED

## TECHNICAL DATA

Type	STICK LED 24	STICK LED 48
Code	217030/6	217033/6
Colour temperature [K]	5 000	
LEDs power [W]	24	48
Total power [W]	31	55
Luminous efficiency [lm/W]	71	80
Luminous flux [lm]*	2 200	4 400
LEDs amount	12	24
Net weight [kg]	56,5	
Height [m]	5	
Unit volume [m <sup>3</sup> ]	1,75	
Voltage [V]	120-277 AC 50/60 Hz	

\* Due to the precision class of diodes tolerance is +/- 3%

STICK LED

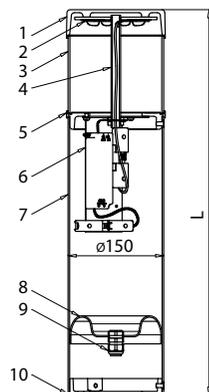


## CHARACTERISTICS

Columns and bollards KARIN LED are designed to illuminate pedestrian ways, squares and parks. They are made of anodized aluminium cylindrical pipe with high thermal conductivity. The lamp diffuser is made of polymethacrylate (PMMA) and it is frozen. The light source is CREE XT-E LED. They are available in eight options of height and power.

### KARIN LED 450-1200

1. Cover
2. LED module
3. Lamp-diffuser
4. Frame
5. Intermediate ring
6. Driver
7. Aluminium body
8. Insulation insert
9. Cable gland
10. Base plate



KARIN  
450 LED

KARIN  
600 LED

KARIN  
900 LED

KARIN  
1200 LED

KARIN  
2400 LED

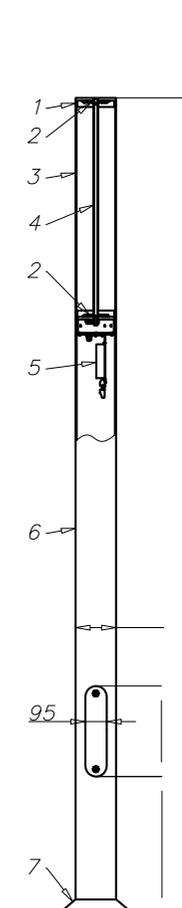
KARIN  
3600 LED

KARIN  
4800 LED

KARIN  
6000 LED

### KARIN LED 3600-6000

1. Cover
2. LED module
3. Lamp-diffuser
4. Frame
5. Driver
6. Aluminium body
7. Base plate

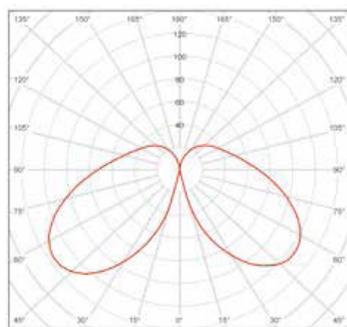


## TECHNICAL DATA

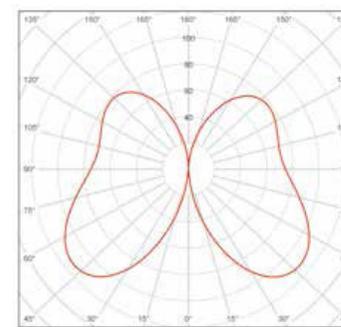
Type	KARIN 450 LED		KARIN 600 LED		KARIN 900 LED		KARIN 1200 LED		KARIN 2400 LED	KARIN 3600 LED	KARIN 4800 LED	KARIN 6000 LED
Code	45200/6/C...	45200/3/C...	45210/6/C...	45210/3/C...	45220/6/C...	45220/3/C...	45230/6/C...	45230/3/C...	45240/6/C...	45250/6/C...	45260/6/C...	45260/6/C...
Colour temperature [K]	5 000	3 500	5 000	3 500	5 000	3 500	5 000	3 500	5 000	5 000	5 000	5 000
Insulation class	II	II	II	II	II	II	II	II	II	II	II	II
LEDs power [W]	16		16		16		16		32	48	88	116
LEDs amount	8		8		8		8		16	24	44	58
Voltage [V]	100 - 240 AC 50/60 Hz		120 -277 AC 50/60 Hz									
Luminous efficiency [lm/W]	50	48	50	48	50	48	50	48	55	78	71	68
Total power [W]	21								39	58	100	134
Luminous flux [lm]	1 050	1 000	1 050	1 000	1 050	1 000	1 050	1 000	2 150	4 550	7 100	9 150
Supply current [mA]	700		700		700		700		700	700	700	700
Height [mm]	450		600		900		1 200		2 400	3 600	4 800	6 000
Diameter D [mm]	150								150	180	200	300
Foundation type	B-0/Z-0		B-0/Z-0		B-0/Z-0		B-0/Z-0		B-50/Z-50	B-60/Z-60	B-60/Z-60	B-71/Z-71
Colour	anodized in 12 colours											powder painted in RAL colours

\* due to the precision class of diodes tolerance is +/- 3%

"C..." - choice of anodizing colour: natural C-0, champagne C -32, olive C -33, brown C-34, black C-35, black brightened C-35W, inox C-45, inox brightened C-45W, grey CI-63, graphite CI-65, green CI-75 and anthracite CI-78.



Distribution curve for KARIN 450-1200 LED



Distribution curve for KARIN 4800 LED

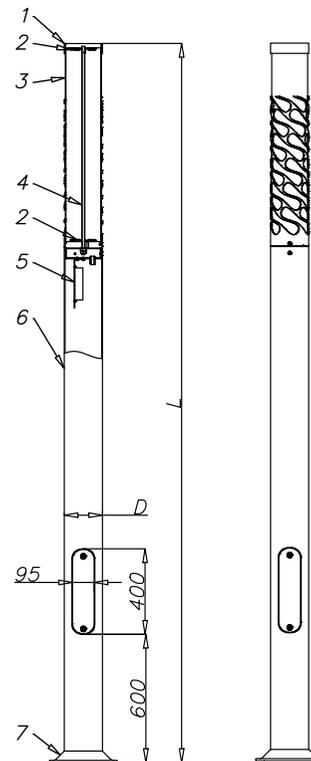
# KARIN LED



## CHARACTERISTICS

Decorative columns KARIN DECOR LED are designed to illuminate pedestrian ways, squares and parks. They are made of anodized aluminium cylindrical pipe with high thermal conductivity. The lamp diffuser is made of polymethacrylate (PMMA) and it is frozen. The light source is CREE XT-E LED. They are available in three options of height and power.

- KARIN DECOR LED
1. Cover
  2. LED module
  3. Lamp-diffuser
  4. Frame
  5. Driver
  6. Aluminium body
  7. Base plate

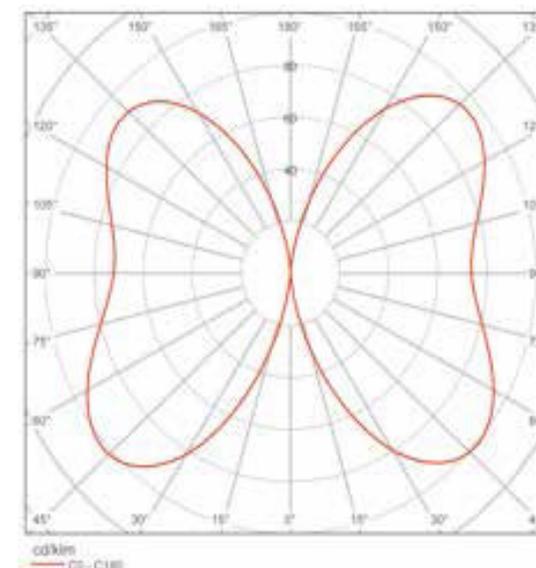


## TECHNICAL DATA

Type	KARIN DECOR 2400 LED	KARIN DECOR 3600 LED	KARIN DECOR 4800 LED
Code	45241/6C...	45251/6 /C...	45261/6 /C...
Colour temperature [K]	5 000	5 000	5 000
Insulation class	II	II	II
LEDs power [W]	32	48	88
LEDs amount	16	24	44
Voltage [V]	120 - 277 AC 50/60 Hz	120 - 277 AC 50/60 Hz	120 - 277 AC 50/60 Hz
Luminous efficiency [lm/W]	41	59	54
Total power [W]	39	58	100
Luminous flux* [lm]	1 600	3 400	5 350
Supply current [mA]	700	700	700
Height [mm]	2 400	3 600	4 800
Diameter D [mm]	150	180	200
Base plate dimensions [mm]	224 x 224	320 x 320	320 x 320
Foundation type	B-50 / Z-50	B-60 / Z-60	B-60 / Z-60
Colour	anodized in 12 colours		

\* due to the precision class of diodes tolerance is +/- 3%

"C..." - choice of anodizing colour: natural C-0, champagne C-32, olive C-33, brown C-34, black C-35, black brightened C-35W, inox C-45, inox brightened C-45W, grey C-63, graphite C-65, green C-75 and anthracite C-78.



Distribution curve for KARIN DECOR 3600 LED

# KARIN DECOR LED



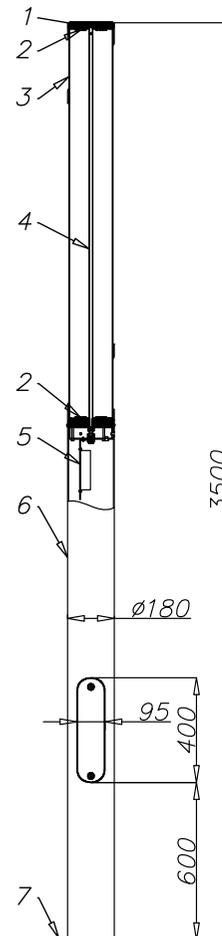
# SAL DECO 3 LED

## CHARACTERISTICS

Decorative column SAL DECO 3 LED is designed to illuminate pedestrian ways, squares and parks. It is made of anodized aluminium cylindrical pipe with high thermal conductivity. The lamp diffuser is made of UV resistant polycarbonate with aluminium decorative elements. The light source is CREE XT-E LED.

### SAL DECO 3 LED

1. Cover
2. LED module
3. Lamp-diffuser
4. Frame
5. Driver
6. Aluminium body
7. Base plate



### SAL DECO 3 LED

1. Cover
2. LED module
3. Lamp-diffuser
4. Frame
5. Driver
6. Aluminium body
7. Base plate

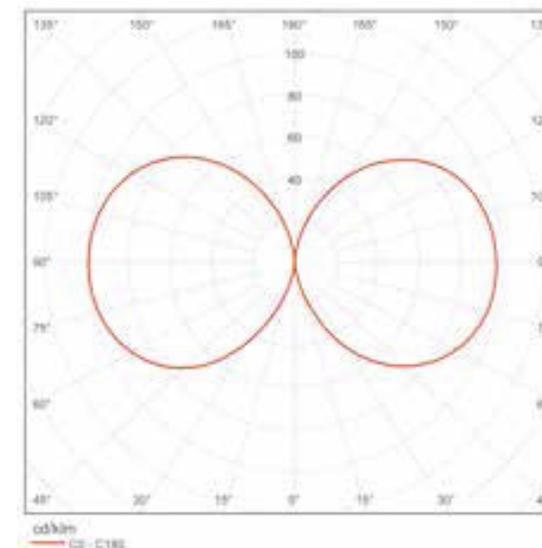


## TECHNICAL DATA

Type	SAL DECO 3 LED
Code	42923/6/C...
Colour temperature [K]	5000
Insulation class	II
LEDs power [W]	48
LEDs amount	24
Voltage [V]	120 -277 AC 50/60 Hz
Luminous efficiency [lm/W]	44
Total power [W]	56
Luminous flux* [lm]	2500
Supply current [mA]	700
Height [mm]	3 500
Diameter D [mm]	180
Base dimensions [mm]	Ø 300
Foundation type	B-31 / Z-31
Colour	anodized in 12 colours

\* due to the precision class of diodes tolerance is +/- 3%

"C..." - choice of anodizing colour: natural C-0, champagne C-32, olive C-33, brown C-34, black C-35, black brightened C-35W, inox C-45, inox brightened C-45W, grey C-63, graphite C-65, green C-75 and anthracite C-78.



Distribution curve for SAL DECO 3 LED

# SAL DECO 3 LED

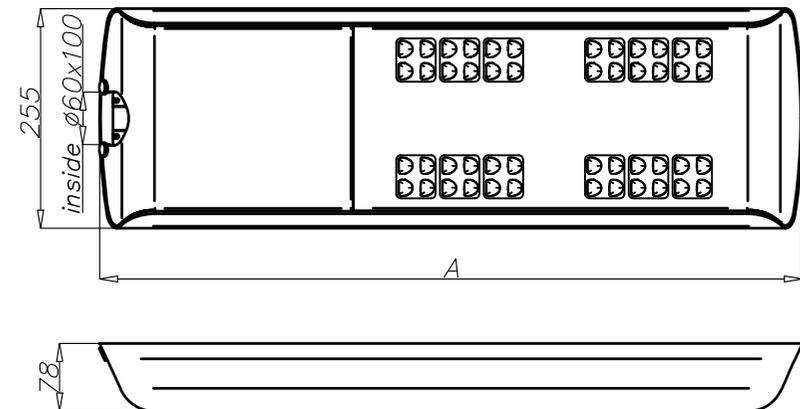


## CHARACTERISTICS

CUDDLE LED is designed to illuminate streets category ME2a and lower. The light source is CREE XM-L2 LED or X-TE LED depending on the luminaire's power. The luminaire is available in four power options and is adapted to work in temperatures between -40°C and +55°C. It is designed for mounting on columns 6 m to 12 m high.

### The advantages of using CUDDLE LED 72 compared to luminaire MAGNOLIA S-150W:

- 47,62% reduction of luminaire energy consumption,
- up to 66,67% reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.



## TECHNICAL DATA

Type	CUDDLE LED 48 (XT-E)		CUDDLE LED 72 (XM-L2)		CUDDLE LED 96 (XT-E)		CUDDLE LED 144 (XM-L2)	
Code	222333/6	222333/3	222335/6	222335/3	222337/6	222337/3	222341/6	222341/3
Colour temperature [K]	5000	3500	5000	3500	5000	3500	5000	3500
LEDs power [W]	48		72		96		144	
Total power [W]	55		80		105		155	
Luminous efficiency [lm/W]	91	71	117	91	95	74	120	93
Luminous flux [lm]	5000	3900	9350	7250	10000	7800	18650	14500
LEDs amount	24		24		48		48	
Net weight [kg]	8		8		9		9	
Unit volume [m <sup>3</sup> ]	0,022		0,022		0,045		0,045	
Windage [m <sup>2</sup> ]	0,028		0,028		0,06		0,06	
Voltage [V]	120 -277 AC 50/60 Hz							

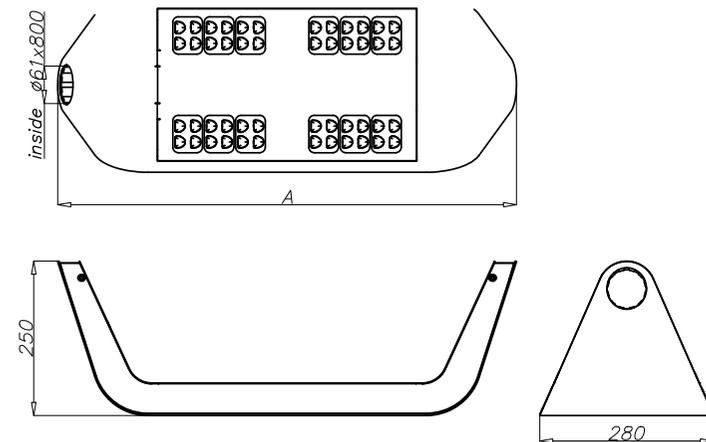
\* due to the precision class of diodes tolerance is +/- 3%

## CHARACTERISTICS

FLOAT LED is designed to illuminate streets category ME2 and lower. The light source is CREE XM-L2 LED or X-TE LED depending on the luminaire's power. The luminaire is available in four power options and is adapted to work in temperatures between -40°C and +55°C. It is designed for mounting on columns 6 m to 12 m high.

### The advantages of using FLOAT LED 72 compared to luminaire MAGNOLIA S-150W:

- 47,62% reduction of luminaire energy consumption,
- up to 66,67% reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.



## TECHNICAL DATA

Type	FLOAT LED 48 (XT-E)		FLOAT LED 72 (XM-L2)		FLOAT LED 96 (XT-E)		FLOAT LED 144 (XM-L2)	
Code	222433/6	222433/3	222435/6	222435/3	222437/6	222437/3	222441/6	222441/3
Colour temperature [K]	5000	3500	5000	3500	5000	3500	5000	3500
LEDs power [W]	48		72		96		144	
Total power [W]	55		80		105		155	
Luminous efficiency [lm/W]	91	71	117	91	95	74	120	93
Luminous flux [lm]	5000	3900	9350	7250	10000	7800	18650	14500
LEDs amount	24		24		48		48	
Net weight [kg]	8,1		8,1		9,6		9,6	
Unit volume [m <sup>3</sup> ]	0,047		0,047		0,058		0,058	
Windage [m <sup>2</sup> ]	0,042		0,042		0,049		0,049	
Voltage [V]	120 -277 AC 50/60 Hz							

\* due to the precision class of diodes tolerance is +/- 3%

FLOAT LED

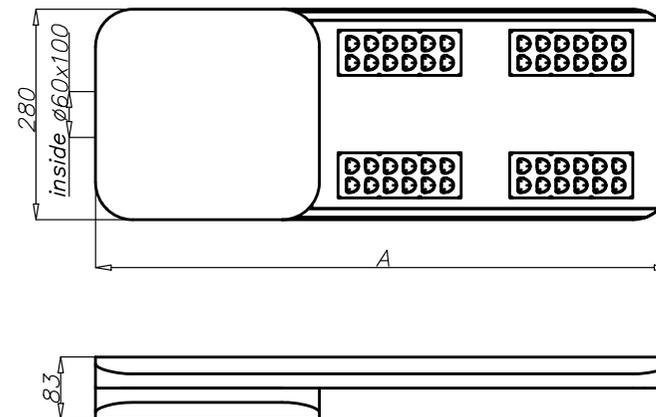


## CHARACTERISTICS

PHASE LED is designed to illuminate streets category ME2 and lower. The light source is CREE XM-L2 LED or X-TE LED depending on the luminaire's power. The luminaire is available in four power options and is adapted to work in temperatures between -40°C and +55°C. It is designed for mounting on columns 6 m to 12 m high.

### The advantages of using PHASE LED 72 compared to luminaire MAGNOLIA S-150W:

- 47,62% reduction of luminaire energy consumption,
- up to 66,67% reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.



## TECHNICAL DATA

Type	PHASE LED 48 (XT-E)		PHASE LED 72 (XM-L2)		PHASE LED 96 (XT-E)		PHASE LED 144 (XM-L2)	
Code	222533/6	222533/3	222535/6	222535/3	222537/6	222537/3	222541/6	222541/3
Colour temperature [K]	5000	3500	5000	3500	5000	3500	5000	3500
LEDs power [W]	48		72		96		144	
Total power [W]	55		80		105		155	
Luminous efficiency [lm/W]	91	71	117	91	95	74	120	93
Luminous flux [lm]	5000	3900	9350	7250	10000	7800	18650	14500
LEDs amount	24		24		48		48	
Net weight [kg]	9,5		9,5		12		12	
Unit volume [m <sup>3</sup> ]	0,017		0,017		0,024		0,024	
Windage [m <sup>2</sup> ]	0,035		0,035		0,045		0,045	
Voltage [V]	120 - 277 AC 50/60 Hz							

\* due to the precision class of diodes tolerance is +/- 3%

PHASE LED

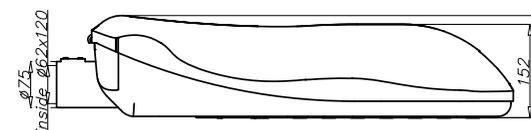
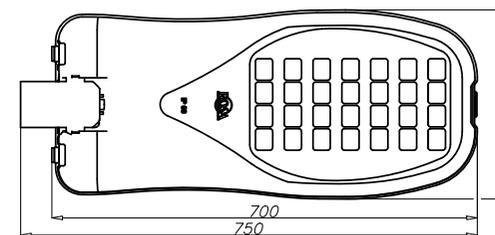


## CHARACTERISTICS

MAGNOLIA LED is designed to illuminate streets category ME3a and lower. It is made of aluminium cast. The luminaire is painted by polyester powder paints: body – RAL 9006 grey, cover – Silver Renoir. The light source is CREE XM-L2 LED. The luminaire is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+40^{\circ}\text{C}$ . It is designed to be mounted on columns 8 m to 10 m high. The luminaire is available in four power options.

### The advantages of using MAGNOLIA LED 84 compared to luminaire MAGNOLIA S-150W Son:

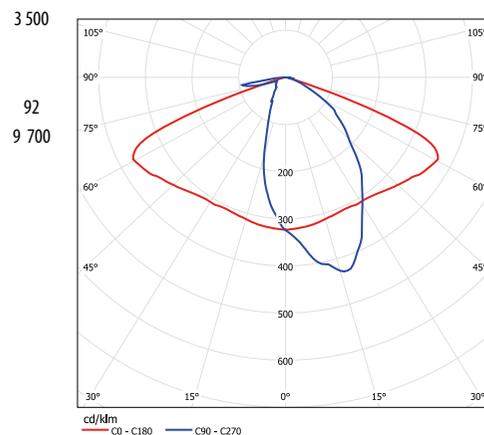
- 45,24% reduction of luminaire energy consumption,
- up to 61,8% reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.



## TECHNICAL DATA

Type	MAGNOLIA LED 60		MAGNOLIA LED 72		MAGNOLIA LED 84		MAGNOLIA LED 96	
Code	220534/6	220534/3	220535/6	220535/3	220536/6	220536/3	220537/6	220537/3
Colour temperature [K]	5 000	3 500	5 000	3 500	5 000	3 500	5 000	
LEDs power [W]	60		72		84		96	
Total luminaire power [W]	68		80		93		105	
Luminous efficiency [lm/W]	114	89	117	91	117	91	119	
Luminous flux* [lm]	7 750	6 050	9 350	7 250	10 850	8 450	12 450	
LEDs amount	20		24		28		32	
Net weight [kg]	11		11		11		11	
Unit volume [m <sup>3</sup> ]	0,050		0,050		0,050		0,050	
Windage [m <sup>2</sup> ]	0,1		0,1		0,1		0,1	
Voltage [V]	120 - 277 AC 50/60 Hz							

\* Due to the precision class of diodes tolerance is +/- 3%



Distribution curve for MAGNOLIA LED

# MAGNOLIA LED



## CHARACTERISTICS

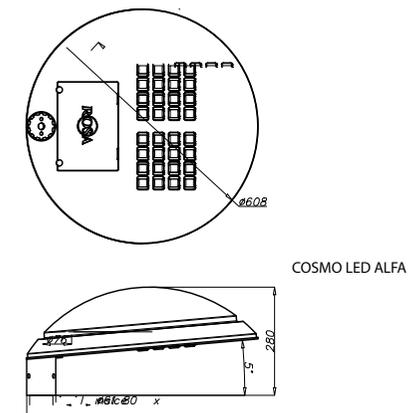
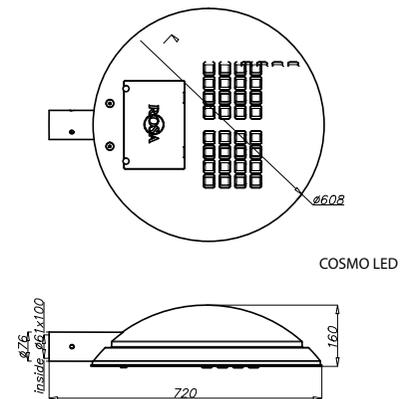
COSMO LED is designed to illuminate streets category ME3a and lower. The light source is CREE XM-L2 LED. It is designed to be mounted on columns 8 m to 10 m high. The luminaire is available in two power options and two mounting options:

- COSMO LED – designed for mounting on extension arm,
- COSMO LED ALFA – pole top mounted.

The luminaire is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+55^{\circ}\text{C}$ .

### The advantages of using COSMO LED 96 compared to luminaire MAGNOLIA S-150 W Son:

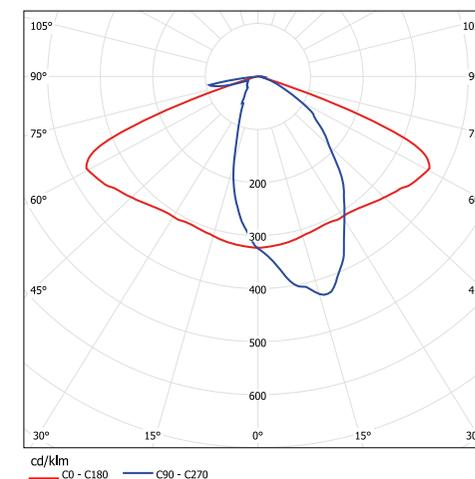
- 37,5% reduction of luminaire energy consumption,
- up to 56,3% reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.



## TECHNICAL DATA

Type	COSMO LED 72 COSMO LED ALFA 72		COSMO LED 96 COSMO LED ALFA 96	
	Code	221035/6 221235/6	221035/3 221235/3	221037/6 221237/6
Colour temperature [K]	5 000	3 500	5 000	3 500
LEDs power [W]	72		96	
Total luminaire power [W]	80		105	
Luminous efficiency [lm/W]	117	91	119	92
Luminous flux* [lm]	9 350	7 250	12 450	9 700
LEDs amount	24		32	
Net weight [kg]	11,5		11,5	
Unit volume [m <sup>3</sup> ]	0,073		0,073	
Windage [m <sup>2</sup> ]	0,085		0,085	
Voltage [V]	120 - 277 AC 50/60 Hz			

\* due to the precision class of diodes tolerance is +/- 3%



Distribution curve for COSMO LED

COSMO LED



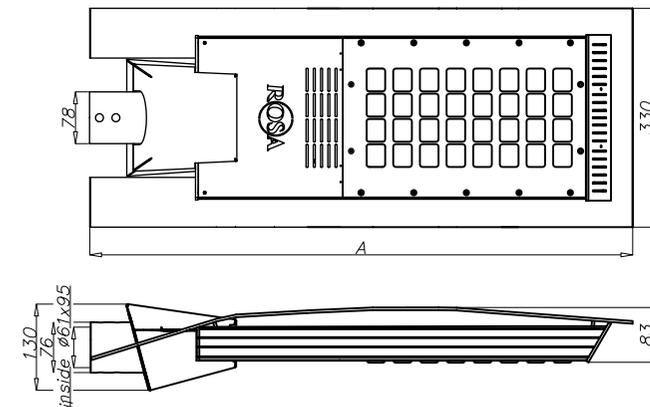
## CHARACTERISTICS

ANDROMEDA LED is designed to illuminate streets category ME3a and lower. The light source is CREE XM-L2 LED. It is designed to be mounted on columns 8 m to 11 m high. The luminaire is available in four power options. ANDROMEDA LED 72 and 96 are adapted to work in temperatures between -40°C and +55°C, ANDROMEDA LED 120 and 144 between -40°C and +40°C.

### The advantages of using ANDROMEDA LED 144 compared to luminaire MAGNOLIA S-250W Son:

- 43,64% reduction of luminaire energy consumption,
- up to 60,5% reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.

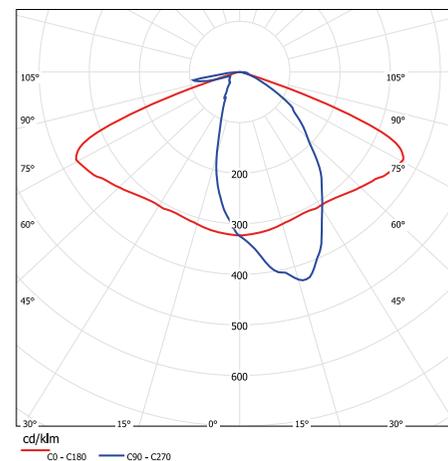
Depending on the distribution of columns ANDROMEDA LED 144 achieves the lighting parameters specified by the standard for Class ME2. It can also be used for installations where increasing of spacing between columns is required to meet the requirements of Class ME3a by using 11 columns on a 7 m wide road at 40 m spacings.



## TECHNICAL DATA

Type	ANDROMEDA LED 72		ANDROMEDA LED 96		ANDROMEDA LED 120		ANDROMEDA LED 144	
Code	222235/6	222235/3	222237/6	222237/3	222239/6	222239/3	222241/6	222241/3
Colour temperature [K]	5 000	3 500	5 000	3 500	5 000	3 500	5 000	3 500
LEDs power [W]	72		96		120		144	
Total luminaire power [W]	80		105		130		155	
Luminous efficiency [lm/W]	117	91	119	92	120	93	120	94
Luminous flux* [lm]	9 350	7 250	12 450	9 700	15 550	12 100	18 650	14 500
LEDs amount	24		32		40		48	
Net weight [kg]	9		10		11		12	
A – length [mm]	770		901		982		1063	
Unit volume [m <sup>3</sup> ]	0,034		0,034		0,052		0,052	
Windage [m <sup>2</sup> ]	0,05		0,056		0,062		0,068	
Voltage [V]	120 - 277 AC 50/60 Hz							

\* Due to the precision class of diodes tolerance is +/- 3%



Distribution curve for ANDROMEDA LED

ANDROMEDA LED

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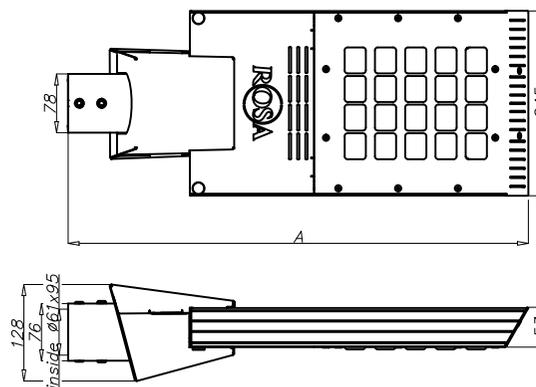
## CHARACTERISTICS

URSA I LED is designed to illuminate streets category ME3a and lower. The light source is CREE XM-L2 LED. The luminaire is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+55^{\circ}\text{C}$ . It is designed to be mounted on columns 6 m to 8 m high. The luminaire is available in three power options and two mounting options:

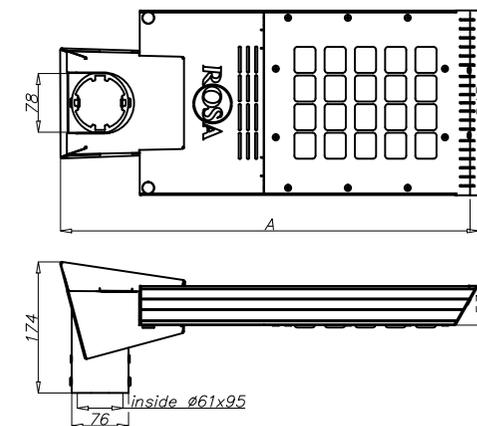
- URSA I LED – designed for mounting on extension arm,
- URSA I LED ALFA – pole top mounted.

### The advantages of using URSA I LED 48 compared to luminaire MAGNOLIA S-100W Son:

- 39,29% reduction of luminaire energy consumption,
- up to 57,4% reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.



URSA I LED

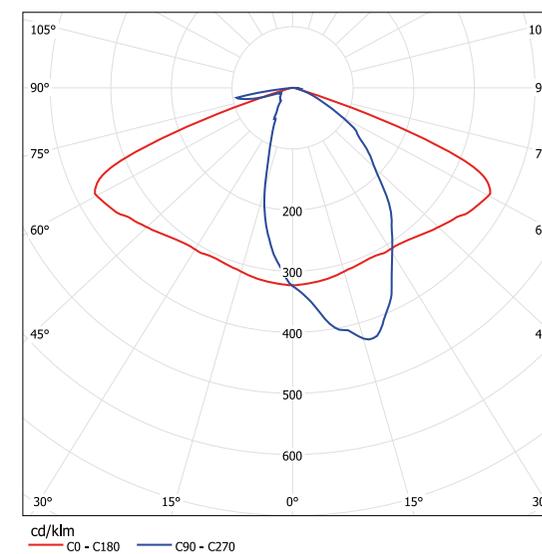


URSA I LED ALFA

## TECHNICAL DATA

Type	URSA I LED 48 URSA I LED ALFA 48		URSA I LED 60 URSA I LED ALFA 60		URSA I LED 72 URSA I LED ALFA 72	
	Code	Code	Code	Code	Code	Code
Code	221833/6 221933/6	221833/3 221933/3	221834/6 221934/6	221834/3 221934/3	221835/6 221935/6	221835/3 221935/3
Colour temperature [K]	5 000	3 500	5 000	3 500	5 000	3 500
LEDs power [W]	48		60		72	
Total luminaire power [W]	55		68		80	
Luminous efficiency [lm/W]	113	88	114	89	117	91
Luminous flux* [lm]	6 200	4 850	7 750	6 050	9 350	7 250
LEDs amount	16		20		24	
Net weight [kg]	6		7		8	
A – lenght [mm]	558		639		720	
Unit volume [m <sup>3</sup> ]	0,035		0,035		0,035	
Windage [m <sup>2</sup> ]	0,04		0,043		0,045	
Voltage [V]	120 - 277 AC 50/60 Hz					

\* Due to the precision class of diodes tolerance is +/- 3%



Distribution curve for URSA I LED

# URSA I LED



## CHARACTERISTICS

URSA II LED is designed to illuminate streets category ME3a and lower. The light source is CREE XM-L2 LED. It is designed to be mounted on columns 8 m to 11 m high. The luminaire is available in four power options and two mounting options:

- URSA II LED – designed for mounting on extension arm,
- URSA II LED ALFA – pole top mounted.

URSA II LED 84 and 96 are adapted to work in temperatures between -40°C and +55°C, URSA II LED 120 and 144 between -40°C and +40°C.

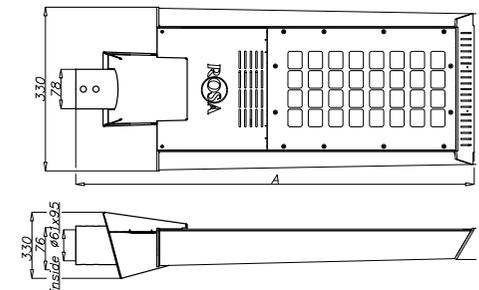
### The advantages of using URSA II LED 120 compared to MAGNOLIA S-250W Son:

- 52,73% reduction of luminaire energy consumption,
- up to 67% reduction of luminaire energy consumption in case of using power reduction,
- the possibility of reducing the quantity of lighting sets and therefore – reduction of energy consumption and costs of the investment,
- maintenance costs savings.

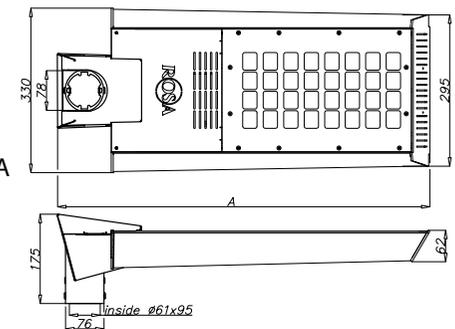
Depending on the distribution of columns URSA II LED 144 achieves the lighting parameters specified by the standard for Class ME2 It can also be used for installations where increasing of spacing between columns is required to meet the requirements of Class ME3a by using 11 columns on a 7 m wide road at 40 m spacings.



URSA II LED



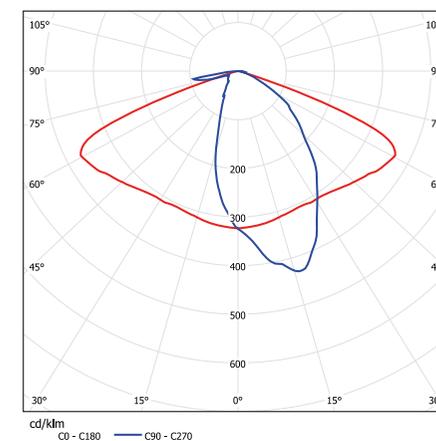
URSA II LED ALFA



## TECHNICAL DATA

Type	URSA II LED 84 URSA II LED ALFA 84		URSA II LED 96 URSA II LED ALFA 96		URSA II LED 120 URSA II LED ALFA 120		URSA II LED 144 URSA II LED ALFA 144	
	Code	Code	Code	Code	Code	Code	Code	Code
Colour temperature [K]	5 000	3 500	5 000	3 500	5 000	3 500	5 000	3 500
LEDs power [W]	84		96		120		144	
Total luminaire power [W]	92		105		130		155	
Luminous efficiency [lm/W]	117	91	119	92	120	93	120	94
Luminous flux* [lm]	10 850	8 450	12 450	9 700	15 550	12 100	18 650	14 500
LEDs amount	28		32		40		48	
Net weight [kg]	8,5		9,0		10,0		11,0	
A – length [mm]	760		801		882		967	
Unit volume [m <sup>3</sup> ]	0,048		0,048		0,058		0,058	
Windage [m <sup>2</sup> ]	0,047		0,05		0,055		0,06	
Voltage [V]	120 - 277 AC 50/60 Hz							

\* Due to the precision class of diodes tolerance is +/- 3%



Distribution curve for URSA II LED

# URSA II LED

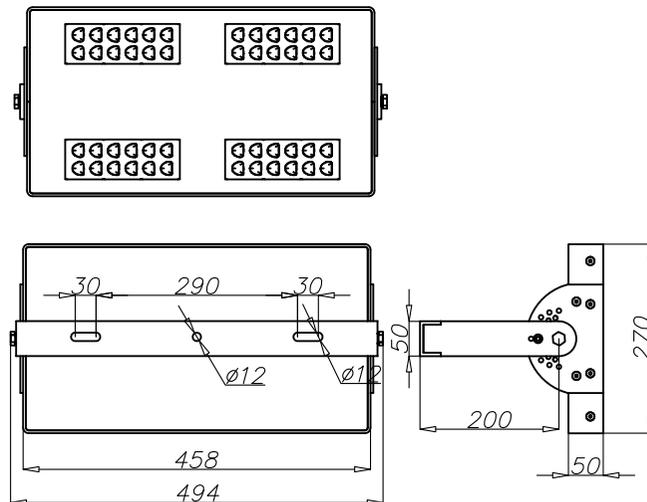


## CHARACTERISTICS

ARTEMIS LED is designed to illuminate architectural elements, sport facilities and big spaces. The light source is CREE XM-L2 LED. It is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+40^{\circ}\text{C}$ . The floodlight has also the possibility to adjust the inclination angle in the range from  $0^{\circ}$  to  $180^{\circ}$ .

### Savings from use of ARTEMIS LED floodlight:

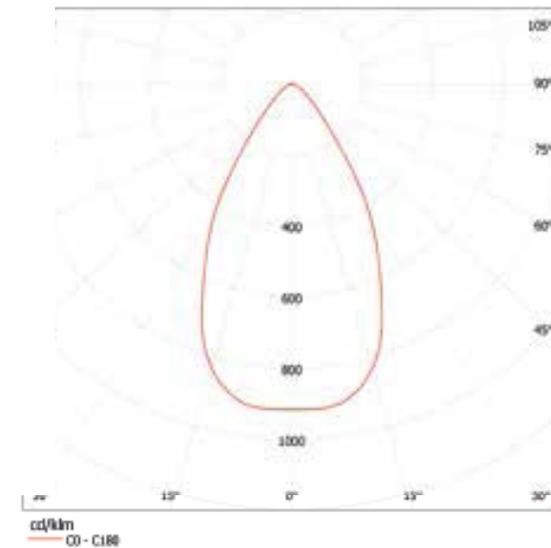
- reduction of energy consumption,
- low maintenance costs – long LED lifetime and floodlight durability,
- the possibility of night time dimming process – energy savings of approximately 30%.



## TECHNICAL DATA

Type	ARTEMIS LED 144	
Code	229041/6	229041/3
Colour temperature [K]	5 000	3 500
LEDs power [W]	144	
Total luminaire power [W]	155	
Luminous efficiency [lm/W]	120	94
Luminous flux* [lm]	18 650	14 500
LEDs amount	48	
Net weight [kg]	11	
Unit volume [m <sup>3</sup> ]	0,022	
Windage [m <sup>2</sup> ]	depends on angular setting (0°-0,08 m <sup>2</sup> ; 30°-0,12 m <sup>2</sup> )	
Voltage [V]	120 - 277 AC 50/60 Hz	

\* Due to the precision class of diodes tolerance is +/- 3%



Distribution curve for ARTEMIS LED

# ARTEMIS LED



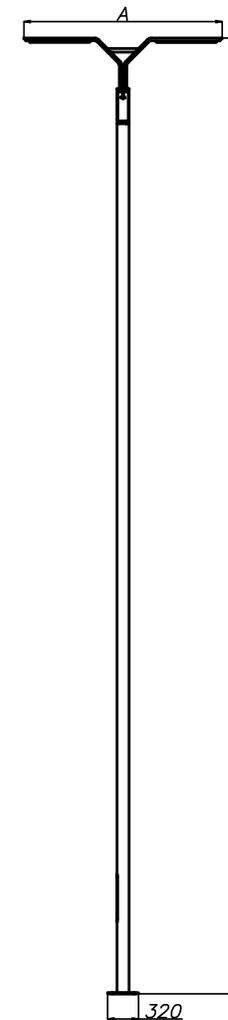
## CHARACTERISTICS

GULLWING LED is designed to illuminate streets category ME3a and lower. The light source is CREE XM-L2 LED. The lighting set is available in three power options and is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+55^{\circ}\text{C}$ . It is adapted for mounting on the height of 8-10 m in double row configuration on median (dividing roadway).

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### The advantages of using GULLWING LED:

- reduction of energy consumption,
- maintenance costs savings,
- decorative character.



## TECHNICAL DATA

Type	GULLWING LED 2 x 72		GULLWING LED 2 x 108		GULLWING LED 2 x 144	
Code	218035/6	218035/3	218038/6	218038/3	218041/6	218041/3
Colour temperature [K]	5 000	3 500	5 000	3 500	5 000	3 500
LEDs power [W]	72		108		144	
Total power [W]	80		118		155	
Luminous efficiency [lm/W]	117	91	119	91	120	93
Luminous flux [lm]	9 350	7 250	14 000	10 900	18 650	14 500
LEDs amount	24		36		48	
Net weight [kg]	53		68		77	
Height [H]	8		9		10	
Unit volume [m3]	3,52		5,57		7,54	
Voltage [V]	120 - 277 AC 50/60 Hz					

\* due to the precision class of diodes tolerance is +/- 3%

# GULLWING LED

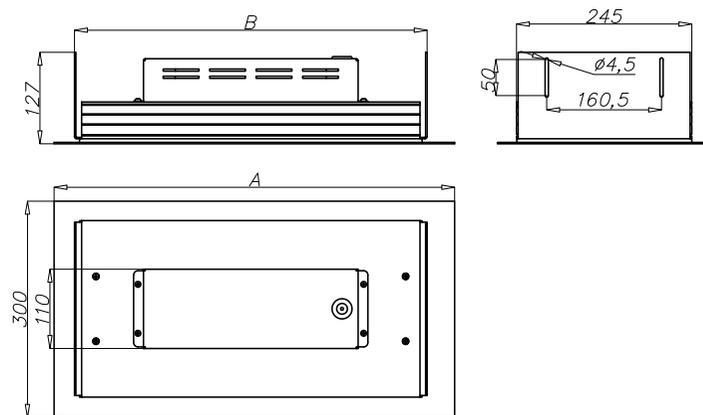


## CHARACTERISTICS

LIBRA LED industrial luminaire is designed to illuminate production halls, warehouses and utility rooms. In standard the luminaire is anodized natural (other colours available on request). The light source is CREE XM-L2 LED. The luminaire is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+40^{\circ}\text{C}$ .

### The advantages of LIBRA LED:

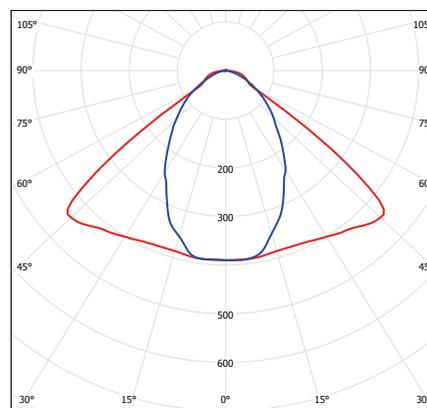
- reduction of annual energy consumption,
- reduction of quantity of lighting sets,
- maintenance costs savings.



## TECHNICAL DATA

Type	LIBRA LED 72		LIBRA LED 96		LIBRA LED 120		LIBRA LED 144	
Code	230535/6	230535/3	230537/6	230537/3	230539/6	230539/3	230541/6	230541/3
Colour temperature [K]	5 000	3 500	5 000	3 500	5 000	3 500	5 000	3 500
LEDs power [W]	72		96		120		144	
Total luminaire power [W]	80		105		130		155	
Luminous efficiency [lm/W]	95	74	97	75	98	76	98	76
Luminous flux* [lm]	7 650	5 950	10 200	7 950	12 750	9 900	15 300	11 900
LEDs amount	24		32		40		48	
Net weight [kg]	7,7		9,3		10		11,2	
A – lenght [mm]	427		519		560		642	
B – lenght of whole in the ceiling [mm]	360		452		493		572	
Unit volume [m <sup>3</sup> ]	0,016		0,02		0,021		0,025	
Voltage [V]	120 - 277 AC 50/60 Hz							

\* Due to the precision class of diodes tolerance is +/- 3%



cd/klm  
— C0 - C180 — C90 - C270

Distribution curve for LIBRA LED

# LIBRA LED



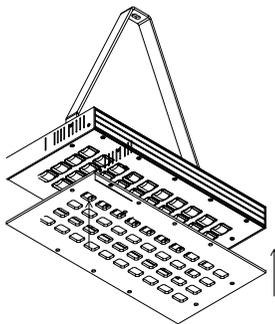
## CHARACTERISTICS

TAURUS LED industrial luminaire is designed to illuminate production halls, warehouses and utility rooms. In standard the luminaire is anodized natural (other colours available on request). The light source is CREE XM-L2 LED. The luminaire is adapted to work in temperatures between  $-40^{\circ}\text{C}$  and  $+40^{\circ}\text{C}$ .

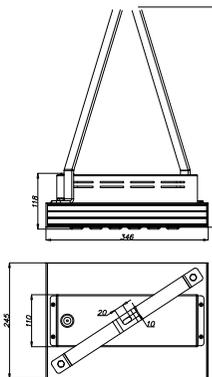
### The advantages of TAURUS LED:

- reduction of annual energy consumption,
- reduction of quantity of lighting sets,
- maintenance costs savings.

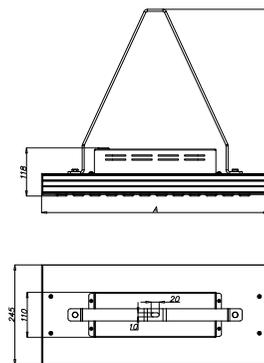
The additional element for TAURUS LED is diaphragm made of anodized aluminium sheet which reduces glare and directs light.



Way of diaphragm assembly



TAURUS LED 72



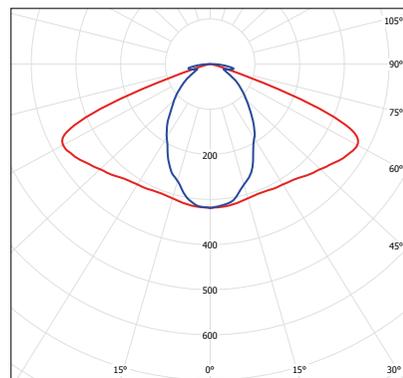
TAURUS LED 96-144



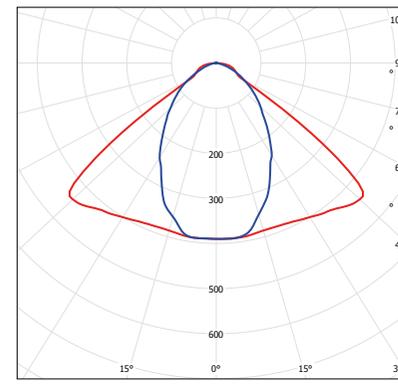
## TECHNICAL DATA

Type	TAURUS LED 72		TAURUS LED 96		TAURUS LED 120		TAURUS LED 144	
Code	230135/6	230135/3	230137/6	230137/3	230139/6	230139/3	230141/6	230141/3
Colour temperature [K]	5 000	3 500	5 000	3 500	5 000	3 500	5 000	3 500
LEDs power [W]	72		96		120		144	
Total luminaire power [W]	80		105		130		155	
Luminous efficiency [lm/W]	117	91	119	92	120	93	120	94
Luminous flux* [lm]	9 350	7 250	12 450	9 700	15 550	12 100	18 650	14 500
LEDs amount	24		32		40		48	
Net weight [kg]	6,3		7,5		8,3		9,2	
A – lenght [mm]	346		438		479		561	
Unit volume [m <sup>3</sup> ]	0,040		0,040		0,040		0,040	
Windage [m <sup>2</sup> ]	0,05		0,056		0,062		0,068	
Additional element – diaphragm	230235		230237		230239		230241	
Voltage [V]	120 - 277 AC 50/60 Hz							

\* Due to the precision class of diodes tolerance is +/- 3%



cd/klm  
C0 - C180 — C90 - C270  
Distribution curve for TAURUS LED



cd/klm  
C0 - C180 — C90 - C270  
Distribution curve for TAURUS LED with diaphragm

# TAURUS LED





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