

LED lámpatestek



Jagiellonian Theatre, Radom, Poland





Kaliska residential area
Opole, Poland



Kielce Technology Park
Kielce, Poland



Harmonia residential area
Cracow, Poland

Pedestrian and bike path
Bochnia, Poland



Lubomirskiego Street,
Cracow, Poland

Bonarka City Center
Cracow, Poland



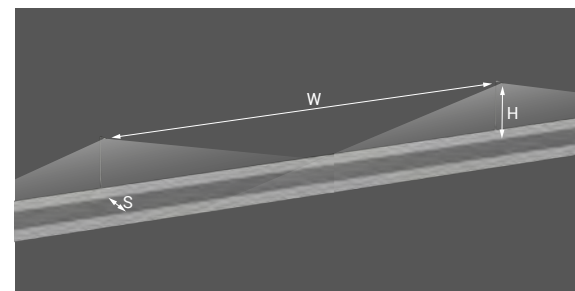
Park at Blessed Carolina Street
Rzeszów, Poland
investor: The Road Administration in Rzeszów



ISKRA LED / ISKRA LED PROG



Lighting example



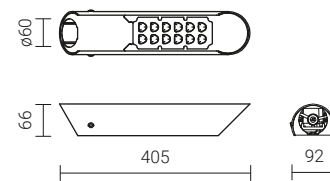
Bicycle and pedestrian path

ISKRA LED 24 W, SP optics

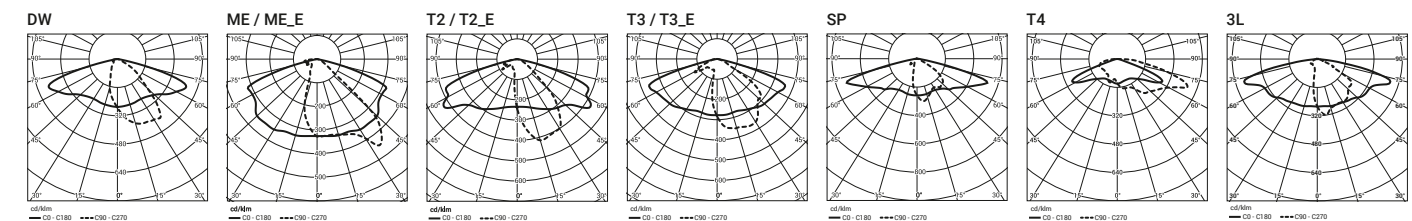
Parameters:

H – luminaire mounting height: 5 m
 W – pole spacing: 42 m
 S – road width: 5 m

Lighting class P4



Application: urban roads, residential streets, parks, pedestrian walkways, cycle paths
Installation: on extension arms with $\varnothing 60 \times 90$ mm ending
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium alloy
Colour: inox / black
Number of LEDs: 12
Expected useful lifetime: L90F10 - 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,005 m³
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0.95
 Luminaire ISKRA LED optionally has the possibility, to connect to an external control system via analog signal 1-10 V.
 Luminaire ISKRA LED PROG has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weigh
213230/1/...	ISKRA LED 24	27 W	30 W	760 mA	2 700 K	4 000 lm	3 600 lm	120 lm/W	2,2 kg
213230/3/...	ISKRA LED 24	27 W	30 W	760 mA	3 500 K	4 150 lm	3 750 lm	125 lm/W	2,2 kg
213230/4/...	ISKRA LED 24	27 W	30 W	760 mA	4 000 K	4 800 lm	4 350 lm	145 lm/W	2,2 kg
213230/6/...	ISKRA LED 24	27 W	30 W	760 mA	5 000 K	4 800 lm	4 350 lm	145 lm/W	2,2 kg
213232/1/...	ISKRA LED 36	36 W	39,5 W	960 mA	2 700 K	4 800 lm	4 400 lm	111 lm/W	2,2 kg
213232/3/...	ISKRA LED 36	36 W	39,5 W	960 mA	3 500 K	5 000 lm	4 650 lm	118 lm/W	2,2 kg
213232/4/...	ISKRA LED 36	36 W	39,5 W	960 mA	4 000 K	5 900 lm	5 500 lm	139 lm/W	2,2 kg
213232/6/...	ISKRA LED 36	36 W	39,5 W	960 mA	5 000 K	5 900 lm	5 500 lm	139 lm/W	2,2 kg
2132127/1/...	ISKRA LED 12 PROG	12 W	14 W	350 mA	2 700 K	1 850 lm	1 700 lm	121 lm/W	2,1 kg
2132127/3/...	ISKRA LED 12 PROG	12 W	14 W	350 mA	3 500 K	1 900 lm	1 750 lm	125 lm/W	2,1 kg
2132127/4/...	ISKRA LED 12 PROG	12 W	14 W	350 mA	4 000 K	2 300 lm	2 100 lm	150 lm/W	2,1 kg
2132127/6/...	ISKRA LED 12 PROG	12 W	14 W	350 mA	5 000 K	2 300 lm	2 100 lm	150 lm/W	2,1 kg
2132130/1/...	ISKRA LED 24 PROG	24 W	28 W	700 mA	2 700 K	3 600 lm	3 350 lm	120 lm/W	2,1 kg
2132130/3/...	ISKRA LED 24 PROG	24 W	28 W	700 mA	3 500 K	3 700 lm	3 500 lm	125 lm/W	2,1 kg
2132130/4/...	ISKRA LED 24 PROG	24 W	28 W	700 mA	4 000 K	4 350 lm	4 050 lm	145 lm/W	2,1 kg
2132130/6/...	ISKRA LED 24 PROG	24 W	28 W	700 mA	5 000 K	4 350 lm	4 050 lm	145 lm/W	2,1 kg
2132132/1/...	ISKRA LED 36 PROG	36 W	40 W	1 000 mA	2 700 K	4 900 lm	4 500 lm	113 lm/W	2,1 kg
2132132/3/...	ISKRA LED 36 PROG	36 W	40 W	1 000 mA	3 500 K	5 100 lm	4 750 lm	119 lm/W	2,1 kg
2132132/4/...	ISKRA LED 36 PROG	36 W	40 W	1 000 mA	4 000 K	6 000 lm	5 600 lm	140 lm/W	2,1 kg
2132132/6/...	ISKRA LED 36 PROG	36 W	40 W	1 000 mA	5 000 K	6 000 lm	5 600 lm	140 lm/W	2,1 kg

/... Symbol of selected optical system

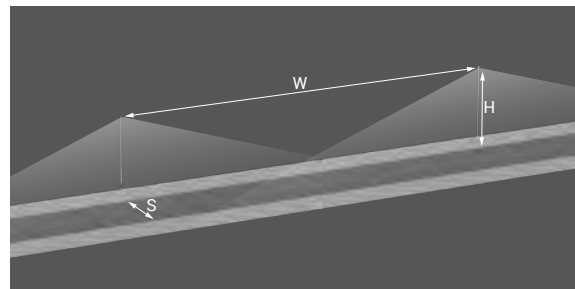
ENEC certificate for ISKRA LED 24, 36, ISKRA LED 24, 36 PROG with T2_E, T3_E and ME_E optics.

3L optics available for ISKRA LED 12W luminaire power only.

ISKRA LED ALFA / ISKRA LED ALFA PROG



Lighting example



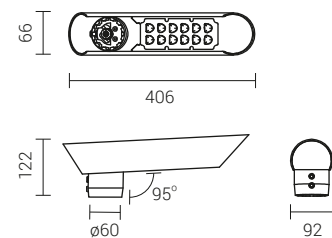
Local road

ISKRA LED ALFA 36 W, T3 optics

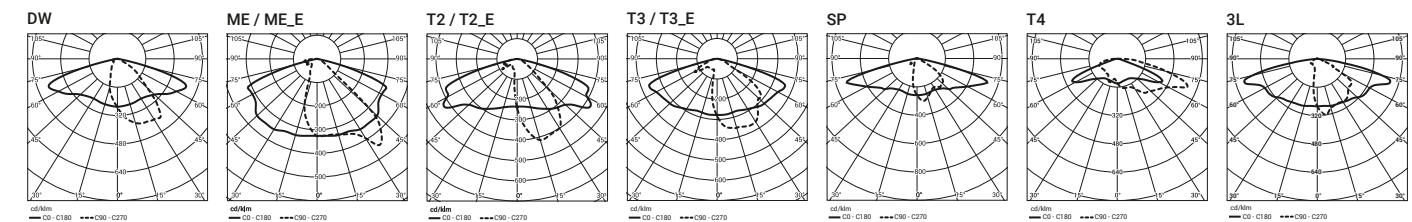
Parameters:

- H – luminaire mounting height: 6 m
- W – pole spacing: 30 m
- S – road width: 5,5 m

Lighting class M5



Application: urban roads, residential streets, parks, pedestrian walkways, cycle paths
Installation: on extension arms with $\varnothing 60 \times 50$ mm ending
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium alloy
Colour: inox / black
Number of LEDs: 12
Expected useful lifetime: L90F10 - 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,01 m³
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0.95
 Luminaire ISKRA LED ALFA optionally has the possibility, to connect to an external control system via analog signal 1-10 V.
 Luminaire ISKRA LED ALFA PROG has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
213330/1/...	ISKRA LED ALFA 24	27 W	30 W	760 mA	2 700 K	4 000 lm	3 600 lm	120 lm/W	2,6 kg
213330/3/...	ISKRA LED ALFA 24	27 W	30 W	760 mA	3 500 K	4 150 lm	3 750 lm	125 lm/W	2,6 kg
213330/4/...	ISKRA LED ALFA 24	27 W	30 W	760 mA	4 000 K	4 800 lm	4 350 lm	145 lm/W	2,6 kg
213330/6/...	ISKRA LED ALFA 24	27 W	30 W	760 mA	5 000 K	4 800 lm	4 350 lm	145 lm/W	2,6 kg
213332/1/...	ISKRA LED ALFA 36	36 W	39,5 W	960 mA	2 700 K	4 800 lm	4 400 lm	111 lm/W	2,6 kg
213332/3/...	ISKRA LED ALFA 36	36 W	39,5 W	960 mA	3 500 K	5 000 lm	4 650 lm	118 lm/W	2,6 kg
213332/4/...	ISKRA LED ALFA 36	36 W	39,5 W	960 mA	4 000 K	5 900 lm	5 500 lm	139 lm/W	2,6 kg
213332/6/...	ISKRA LED ALFA 36	36 W	39,5 W	960 mA	5 000 K	5 900 lm	5 500 lm	139 lm/W	2,6 kg
2133127/1/...	ISKRA LED ALFA 12 PROG	12 W	14 W	350 mA	2 700 K	1 850 lm	1 700 lm	121 lm/W	2,5 kg
2133127/3/...	ISKRA LED ALFA 12 PROG	12 W	14 W	350 mA	3 500 K	1 900 lm	1 750 lm	125 lm/W	2,5 kg
2133127/4/...	ISKRA LED ALFA 12 PROG	12 W	14 W	350 mA	4 000 K	2 300 lm	2 100 lm	150 lm/W	2,5 kg
2133127/6/...	ISKRA LED ALFA 12 PROG	12 W	14 W	350 mA	5 000 K	2 300 lm	2 100 lm	150 lm/W	2,5 kg
2133130/1/...	ISKRA LED ALFA 24 PROG	24 W	28 W	700 mA	2 700 K	3 600 lm	3 350 lm	120 lm/W	2,5 kg
2133130/3/...	ISKRA LED ALFA 24 PROG	24 W	28 W	700 mA	3 500 K	3 700 lm	3 500 lm	125 lm/W	2,5 kg
2133130/4/...	ISKRA LED ALFA 24 PROG	24 W	28 W	700 mA	4 000 K	4 350 lm	4 050 lm	145 lm/W	2,5 kg
2133130/6/...	ISKRA LED ALFA 24 PROG	24 W	28 W	700 mA	5 000 K	4 350 lm	4 050 lm	145 lm/W	2,5 kg
2133132/1/...	ISKRA LED ALFA 36 PROG	36 W	40 W	1 000 mA	2 700 K	4 900 lm	4 500 lm	113 lm/W	2,5 kg
2133132/3/...	ISKRA LED ALFA 36 PROG	36 W	40 W	1 000 mA	3 500 K	5 100 lm	4 750 lm	119 lm/W	2,5 kg
2133132/4/...	ISKRA LED ALFA 36 PROG	36 W	40 W	1 000 mA	4 000 K	6 000 lm	5 600 lm	140 lm/W	2,5 kg
2133132/6/...	ISKRA LED ALFA 36 PROG	36 W	40 W	1 000 mA	5 000 K	6 000 lm	5 600 lm	140 lm/W	2,5 kg

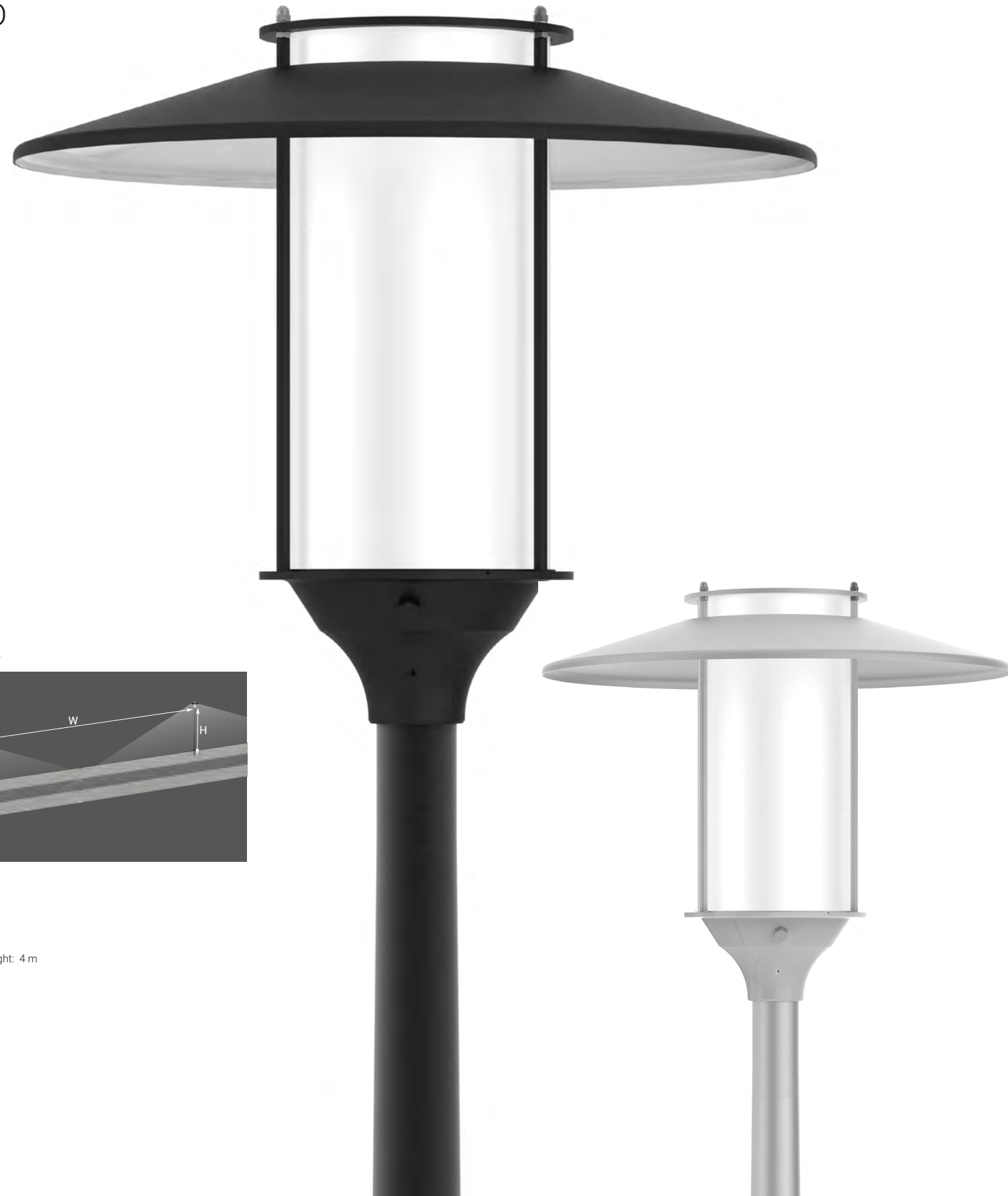
/... Symbol of selected optical system

ENEC certificate for ISKRA LED ALFA 24, 36, ISKRA LED ALFA 24, 36 PROG with T2_E, T3_E and ME_E optics.

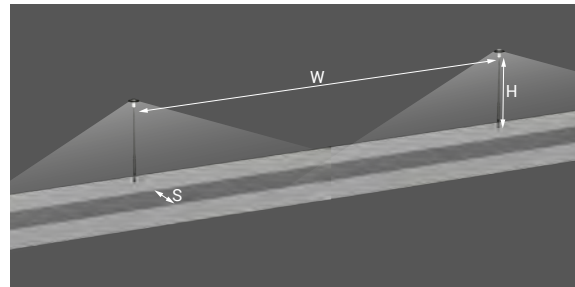
3L optics available for ISKRA LED 12 W luminaire power only.



LED lámpatestek
ELBA LED



Lighting example



Sidewalk

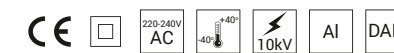
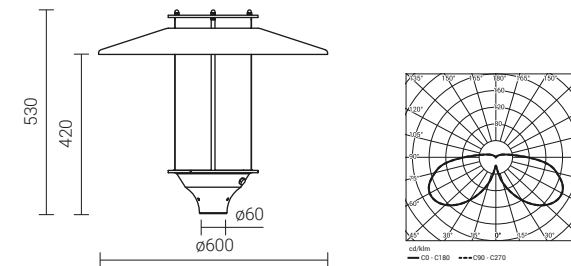
ELBA LED

Parameters:

H – luminaire mounting height: 4 m
W – pole spacing: 22 m
S – road width: 3 m

Lighting class P4

Application: parks, pedestrian walkways, cycle paths
Installation: pole top mounted or on extension arms with $\varnothing 60 \times 50$ mm ending
Ingress protection: IP 65
Material: base – high-pressure die-casted aluminium alloy
cap – formed aluminium sheet
diffuser – frosted cylindrical $\varnothing 200$ mm (PMMA)
Expected useful lifetime: L90F10 - 50 000 h, L80F20 – 100 000 h
CRI: >70 for 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,06 m³
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0.95
Luminaire ELBA LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



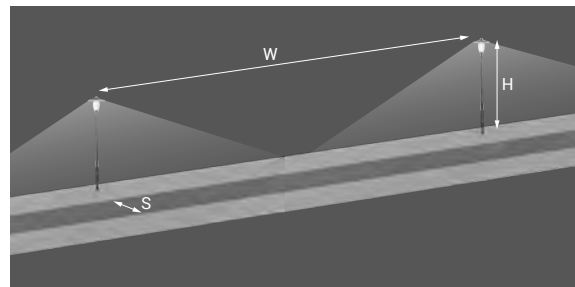
Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
213050/1	ELBA LED czarna	33 W	36 W	940 mA	2 700 K	5 300 lm	3 650 lm	101 lm/W	5 kg
2131050/1/C45	ELBA LED inox	33 W	36 W	940 mA	2 700 K	5 300 lm	3 450 lm	96 lm/W	5 kg
213050/3	ELBA LED czarna	33 W	36 W	940 mA	3 500 K	5 750 lm	3 950 lm	110 lm/W	5 kg
2131050/3/C45	ELBA LED inox	33 W	36 W	940 mA	3 500 K	5 750 lm	3 750 lm	104 lm/W	5 kg
213050/4	ELBA LED czarna	33 W	36 W	940 mA	4 000 K	5 850 lm	4 000 lm	111 lm/W	5 kg
2131050/4/C45	ELBA LED inox	33 W	36 W	940 mA	4 000 K	5 850 lm	3 800 lm	106 lm/W	5 kg



LED lámpatestek

AURIS LED

Lighting example



Sidewalk

AURIS LED, A optics

Parameters:

H – luminaire mounting height: 3,5 m

W – pole spacing: 23 m

S – sidewalk width: 4 m

Lighting class P4



Application: parks, pedestrian walkways, cycle paths

Installation: pole top mounted or on extension arms with $\varnothing 60 \times 50$ mm ending

Ingress protection: IP 66

Material: cap - formed aluminum sheet,
diffuser - frosted cylindrical $\varnothing 200$ mm (PMMA)
base - high-pressure die-casted aluminum alloy

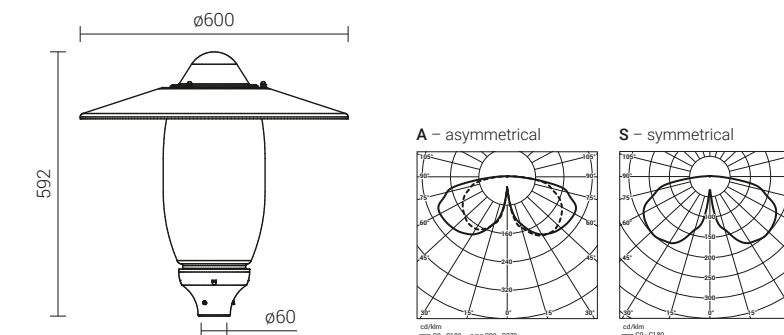
Expected useful lifetime: L80F20 – 50 000 h

CRI: >70 for 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 0,06 m³

Input voltage frequency: 50/60 Hz

Power factor: ≥ 0.9



Code	Name	LED power	Luminaire power consumption	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
213563/1/...	AURIS LED black	18 W	20 W	2 700 K	2 800 lm	1 800 lm	90 lm/W	5 kg
213563/1/.../C45	AURIS LED inox	18 W	20 W	2 700 K	2 800 lm	1 750 lm	88 lm/W	5 kg
213563/3/...	AURIS LED black	18 W	20 W	3 500 K	3 000 lm	1 950 lm	98 lm/W	5 kg
213563/3/.../C45	AURIS LED inox	18 W	20 W	3 500 K	3 000 lm	1 850 lm	93 lm/W	5 kg
213563/4/...	AURIS LED black	18 W	20 W	4 000 K	3 000 lm	1 950 lm	98 lm/W	5 kg
213563/4/.../C45	AURIS LED inox	18 W	20 W	4 000 K	3 000 lm	1 850 lm	93 lm/W	5 kg

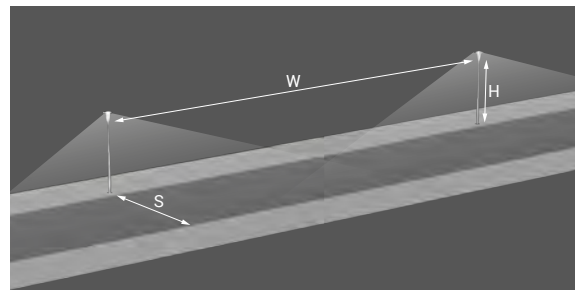
/... Symbol of selected optical system



ATLANTIS LED



Lighting example



Sidewalk

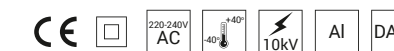
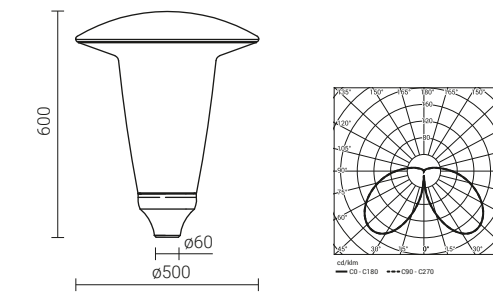
ATLANTIS LED

Parameters:

H – luminaire mounting height: 4 m
 W – pole spacing: 26 m
 S – road width: 4 m

Lighting class P4

Application: parks, pedestrian walkway, cycle paths
Installation: pole top mounted or on extension arms with $\varnothing 60 \times 50$ mm ending
Ingress protection: IP 66
Material: cap - formed aluminum sheet
 diffuser - transparent (PMMA)
 base - high-pressure die-casted aluminum alloy
Colour: cap – inox, base – painted in RAL 9006
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,22 m³
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0.95
 Luminaire ATLANTIS LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).

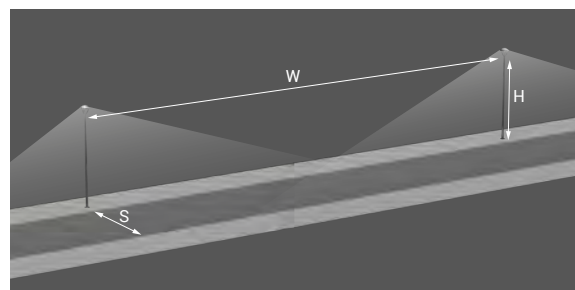


Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
214650/1	ATLANTIS LED	38 W	42 W	800 mA	2 700 K	4 650 lm	3 900 lm	93 lm/W	4 kg
214650/3	ATLANTIS LED	38 W	42 W	800 mA	3 500 K	4 900 lm	4 100 lm	98 lm/W	4 kg
214650/4	ATLANTIS LED	38 W	42 W	800 mA	4 000 K	6 300 lm	5 200 lm	124 lm/W	4 kg
214650/6	ATLANTIS LED	38 W	42 W	800 mA	5 000 K	6 300 lm	5 200 lm	124 lm/W	4 kg

COSMO DELTA LED



Lighting example



Local road

COSMO DELTA LED 72 W, T2 optics

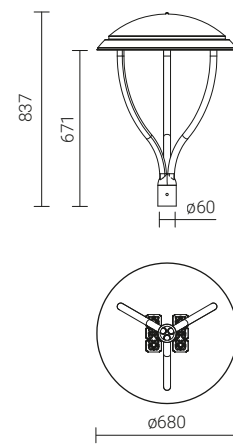
Parameters:

H – luminaire mounting height: 6 m

W – pole spacing: 35 m

S – road width: 6 m

Lighting class C3



Application: parks, parking

Installation: pole top mounted with $\varnothing 60 \times 80$ mm ending

Ingress protection: IP 66 for the optical part and the driver

Material: anodised aluminium alloy

Colour: inox / black

Optical system: PMMA optics, interchangeable LED module

Number of LEDs: 24

Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

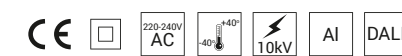
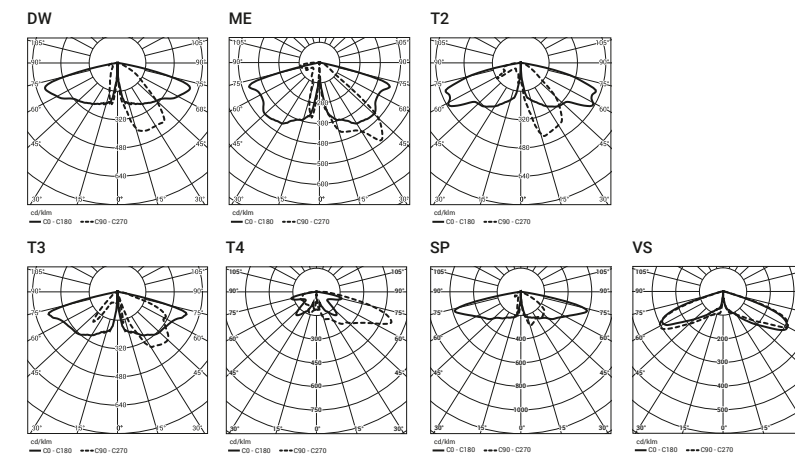
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 0,32 m³

Input voltage frequency: 50/60 Hz

Power factor: ≥ 0.95

Luminaire COSMO DELTA LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).

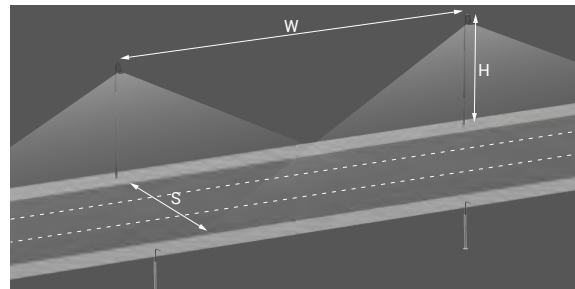


Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
2148032/1/...	COSMO DELTA LED 36	36 W	42 W	500 mA	2 700 K	5 250 lm	4 600 lm	110 lm/W	11 kg
2148032/3/...	COSMO DELTA LED 36	36 W	42 W	500 mA	3 500 K	5 500 lm	4 800 lm	114 lm/W	11 kg
2148032/4/...	COSMO DELTA LED 36	36 W	42 W	500 mA	4 000 K	6 450 lm	5 700 lm	136 lm/W	11 kg
2148032/6/...	COSMO DELTA LED 36	36 W	42 W	500 mA	5 000 K	6 450 lm	5 700 lm	136 lm/W	11 kg
2148033/1/...	COSMO DELTA LED 48	48 W	55 W	700 mA	2 700 K	7 050 lm	6 000 lm	109 lm/W	11 kg
2148033/3/...	COSMO DELTA LED 48	48 W	55 W	700 mA	3 500 K	7 350 lm	6 350 lm	115 lm/W	11 kg
2148033/4/...	COSMO DELTA LED 48	48 W	55 W	700 mA	4 000 K	8 650 lm	7 350 lm	134 lm/W	11 kg
2148033/6/...	COSMO DELTA LED 48	48 W	55 W	700 mA	5 000 K	8 650 lm	7 350 lm	134 lm/W	11 kg
2148035/1/...	COSMO DELTA LED 72	72 W	79 W	1 000 mA	2 700 K	9 450 lm	8 100 lm	103 lm/W	11 kg
2148035/3/...	COSMO DELTA LED 72	72 W	79 W	1 000 mA	3 500 K	9 900 lm	8 550 lm	108 lm/W	11 kg
2148035/4/...	COSMO DELTA LED 72	72 W	79 W	1 000 mA	4 000 K	11 650 lm	9 900 lm	125 lm/W	11 kg
2148035/6/...	COSMO DELTA LED 72	72 W	79 W	1 000 mA	5 000 K	11 650 lm	9 900 lm	125 lm/W	11 kg

/... Symbol of selected optical system

OW LED

Lighting example



Park avenue / promenade

OW LED 48 W, T2 optics

Parameters:

H – luminaire mounting height: 5,2 m

W – pole spacing: 34 m

S – road width: 4 m

Lighting class P2



Application: urban roads, residential streets, parks, pedestrian walkways, parking, pedestrian crossing

Installation: on extension arms, wall brackets, columns with extension arms with $\varnothing 42 \times 40$ mm ending

Ingress protection: IP 66

Material: body and cap anodised aluminum formed sheet metal

Colour: black

Optical system: PMMA optics, interchangeable LED module

Number of LEDs: 24 for 48 W, 60 W, 72 W; 12 for 24 W, 36 W

Expected useful lifetime: L90F10 - 50 000 h, L80F20 – 100 000 h

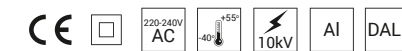
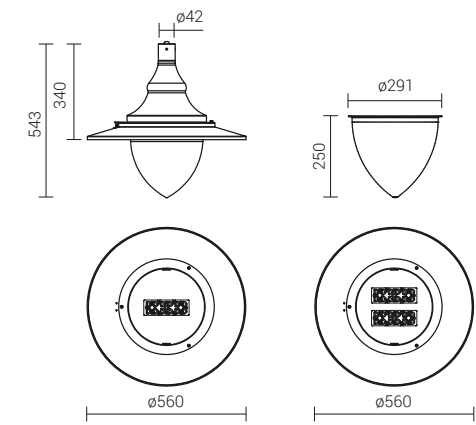
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 0,16 m³

Input voltage frequency: 50/60 Hz

Power factor: ≥ 0.95

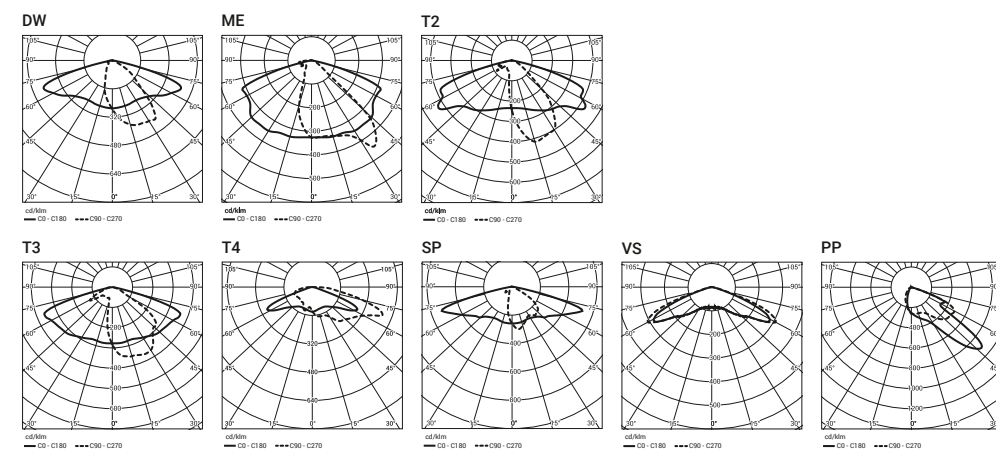
Luminaire OW LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
2109030/1/...	OW LED 24	24 W	28 W	700 mA	2 700 K	3 600 lm	3 150 lm	113 lm/W	6,3 kg
2109030/3/...	OW LED 24	24 W	28 W	700 mA	3 500 K	3 700 lm	3 250 lm	117 lm/W	6,3 kg
2109030/4/...	OW LED 24	24 W	28 W	700 mA	4 000 K	4 450 lm	3 800 lm	136 lm/W	6,3 kg
2109030/6/...	OW LED 24	24 W	28 W	700 mA	5 000 K	4 450 lm	3 800 lm	136 lm/W	6,3 kg
2109032/1/...	OW LED 36	36 W	40 W	1 000 mA	2 700 K	4 900 lm	4 300 lm	108 lm/W	6,3 kg
2109032/3/...	OW LED 36	36 W	40 W	1 000 mA	3 500 K	5 100 lm	4 550 lm	114 lm/W	6,3 kg
2109032/4/...	OW LED 36	36 W	40 W	1 000 mA	4 000 K	6 000 lm	5 350 lm	134 lm/W	6,3 kg
2109032/6/...	OW LED 36	36 W	40 W	1 000 mA	5 000 K	6 000 lm	5 350 lm	134 lm/W	6,3 kg
2109033/1/...	OW LED 48	48 W	55 W	700 mA	2 700 K	7 050 lm	6 150 lm	112 lm/W	6,3 kg
2109033/3/...	OW LED 48	48 W	55 W	700 mA	3 500 K	7 350 lm	6 500 lm	119 lm/W	6,3 kg
2109033/4/...	OW LED 48	48 W	55 W	700 mA	4 000 K	8 650 lm	7 500 lm	136 lm/W	6,3 kg
2109033/6/...	OW LED 48	48 W	55 W	700 mA	5 000 K	8 650 lm	7 500 lm	136 lm/W	6,3 kg
2109034/1/...	OW LED 60	60 W	67 W	830 mA	2 700 K	8 150 lm	7 100 lm	106 lm/W	6,3 kg
2109034/3/...	OW LED 60	60 W	67 W	830 mA	3 500 K	8 500 lm	7 450 lm	112 lm/W	6,3 kg
2109034/4/...	OW LED 60	60 W	67 W	830 mA	4 000 K	10 050 lm	8 800 lm	131 lm/W	6,3 kg
2109034/6/...	OW LED 60	60 W	67 W	830 mA	5 000 K	10 050 lm	8 800 lm	131 lm/W	6,3 kg
2109035/1/...	OW LED 72	72 W	79 W	1 000 mA	2 700 K	9 450 lm	8 250 lm	105 lm/W	6,3 kg
2109035/3/...	OW LED 72	72 W	79 W	1 000 mA	3 500 K	9 900 lm	8 700 lm	111 lm/W	6,3 kg
2109035/4/...	OW LED 72	72 W	79 W	1 000 mA	4 000 K	11 650 lm	10 200 lm	129 lm/W	6,3 kg
2109035/6/...	OW LED 72	72 W	79 W	1 000 mA	5 000 K	11 650 lm	10 200 lm	129 lm/W	6,3 kg

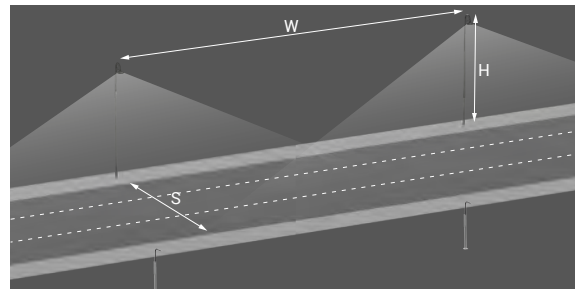
/... Symbol of selected optical system

Code	Name	Diffuser weight
690893	Transparent PMMA diffuser do OW LED	0,57 kg
690898	Frosted PMMA diffuser do OW LED	0,57 kg



LED lámpatestek
OW II LED

Lighting example



Single carriageway with three lanes

OW II LED 96 W, ME optics

Parameters:

H – luminaire mounting height: 10m
W – pole spacing: 39 m
S – road width: 10,5 m

Lighting class M3



Application: urban roads, residential streets, pedestrian walkways, parking

Installation: on extension arms, wall brackets, columns with extension arms with $\varnothing 60 \times 50$ mm ending

Ingress protection: IP 66

Material: body and cap anodised aluminum formed sheet metal

Colour: black

Optical system: PMMA optics, interchangeable LED module

Number of LEDs: 48

Expected useful lifetime: L90F10 - 50 000 h, L80F20 – 100 000 h

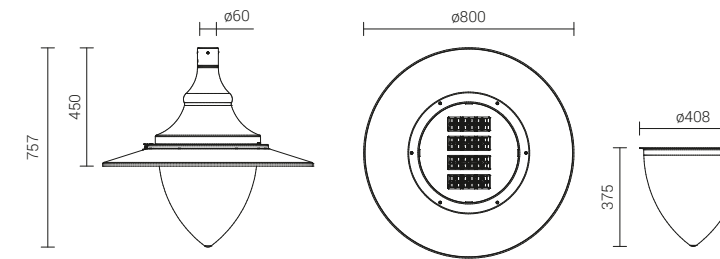
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 0,35 m³

Input voltage frequency: 50/60 Hz

Power factor: ≥ 0.95

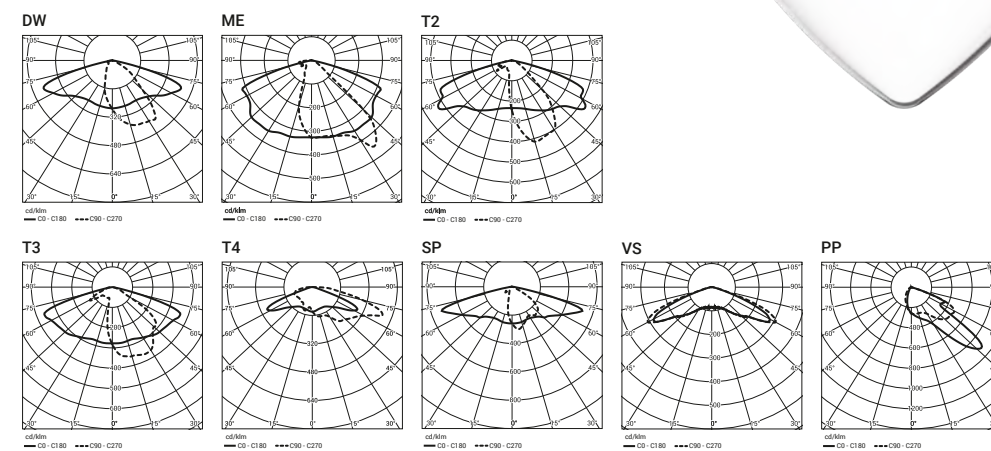
Luminaire OW II LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
2109137/1/...	OW II LED 96	96 W	105 W	700 mA	2 700 K	13 850 lm	12 150 lm	116 lm/W	12,5 kg
2109137/3/...	OW II LED 96	96 W	105 W	700 mA	3 500 K	14 450 lm	12 650 lm	120 lm/W	12,5 kg
2109137/4/...	OW II LED 96	96 W	105 W	700 mA	4 000 K	16 800 lm	14 600 lm	139 lm/W	12,5 kg
2109137/6/...	OW II LED 96	96 W	105 W	700 mA	5 000 K	16 800 lm	14 600 lm	139 lm/W	12,5 kg
2109139/1/...	OW II LED 120	120 W	129 W	830 mA	2 700 K	16 700 lm	14 550 lm	113 lm/W	12,5 kg
2109139/3/...	OW II LED 120	120 W	129 W	830 mA	3 500 K	17 450 lm	15 250 lm	118 lm/W	12,5 kg
2109139/4/...	OW II LED 120	120 W	129 W	830 mA	4 000 K	20 250 lm	17 600 lm	136 lm/W	12,5 kg
2109139/6/...	OW II LED 120	120 W	129 W	830 mA	5 000 K	20 250 lm	17 600 lm	136 lm/W	12,5 kg
2109141/1/...	OW II LED 144	144 W	154 W	1 000 mA	2 700 K	19 050 lm	16 650 lm	108 lm/W	12,5 kg
2109141/3/...	OW II LED 144	144 W	154 W	1 000 mA	3 500 K	19 850 lm	17 350 lm	113 lm/W	12,5 kg
2109141/4/...	OW II LED 144	144 W	154 W	1 000 mA	4 000 K	23 000 lm	20 000 lm	130 lm/W	12,5 kg
2109141/6/...	OW II LED 144	144 W	154 W	1 000 mA	5 000 K	23 000 lm	20 000 lm	130 lm/W	12,5 kg

/... Symbol of selected optical system

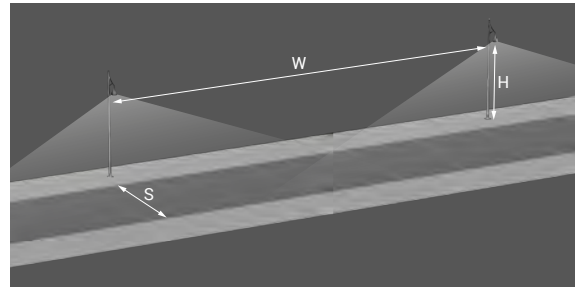
Code	Name	Diffuser weight
691993	Transparent PMMA diffuser for OW II LED	1,5 kg



LED lámpatestek

DROP LED

Lighting example



Local road

DROP LED 48 W asymmetric

Parameters:

H – luminaire mounting height: 5,2 m

W – pole spacing: 25 m

S – road width: 5,5 m

Lighting class C3



Application: residential streets, office building surroundings, parks, pedestrian walkways

Installation: on extension arms with $\varnothing 42 \times 30$ mm ending

Ingress protection: IP 66

Material: anodised aluminium alloy

Colour: inox / graphite

Optical system: PMMA optics

Number of LEDs: 16

Expected useful lifetime: L90F10 - 50 000 h, L80F20 – 100 000 h

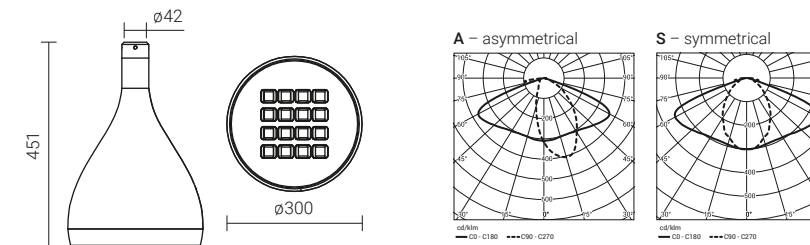
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 0,041 m³

Input voltage frequency: 50/60 Hz

Power factor: ≥ 0.95

Luminaire DROP LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



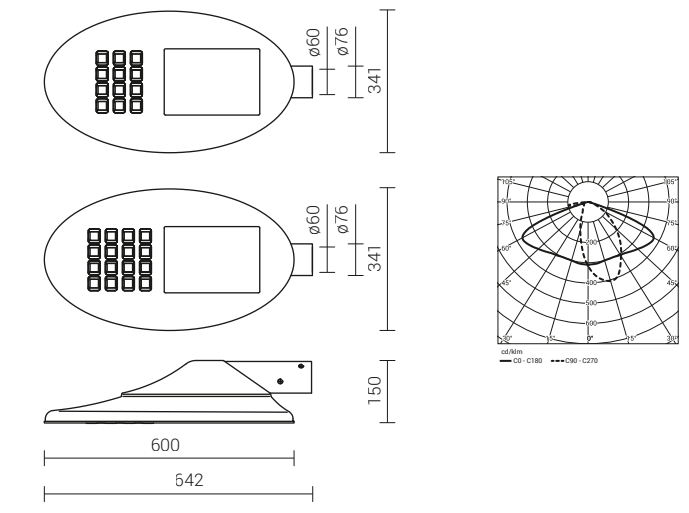
Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
214930/1/...	DROP LED 24	24 W	28 W	500 mA	2 700 K	3 700 lm	3 500 lm	125 lm/W	6,5 kg
214930/3/...	DROP LED 24	24 W	28 W	500 mA	3 500 K	3 900 lm	3 650 lm	130 lm/W	6,5 kg
214930/4/...	DROP LED 24	24 W	28 W	500 mA	4 000 K	4 350 lm	4 150 lm	148 lm/W	6,5 kg
214930/6/...	DROP LED 24	24 W	28 W	500 mA	5 000 K	4 350 lm	4 150 lm	148 lm/W	6,5 kg
214932/1/...	DROP LED 36	36 W	41 W	750 mA	2 700 K	5 300 lm	5 000 lm	122 lm/W	6,5 kg
214932/3/...	DROP LED 36	36 W	41 W	750 mA	3 500 K	5 450 lm	5 150 lm	126 lm/W	6,5 kg
214932/4/...	DROP LED 36	36 W	41 W	750 mA	4 000 K	6 300 lm	6 000 lm	146 lm/W	6,5 kg
214932/6/...	DROP LED 36	36 W	41 W	750 mA	5 000 K	6 300 lm	6 000 lm	146 lm/W	6,5 kg
214933/1/...	DROP LED 48	48 W	55 W	1 000 mA	2 700 K	6 600 lm	6 300 lm	115 lm/W	6,5 kg
214933/3/...	DROP LED 48	48 W	55 W	1 000 mA	3 500 K	6 900 lm	6 550 lm	119 lm/W	6,5 kg
214933/4/...	DROP LED 48	48 W	55 W	1 000 mA	4 000 K	7 800 lm	7 400 lm	135 lm/W	6,5 kg
214933/6/...	DROP LED 48	48 W	55 W	1 000 mA	5 000 K	7 800 lm	7 400 lm	135 lm/W	6,5 kg

/... Symbol of selected optical system

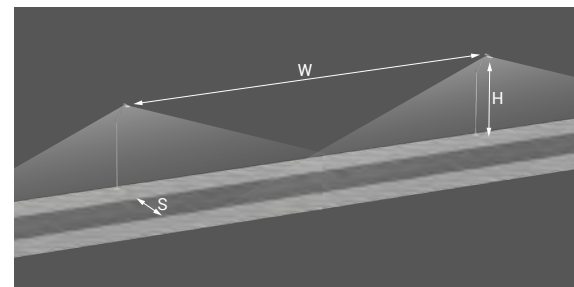
GEMINI LED



Application: residential streets, office building surroundings, parks, pedestrian walkways
Installation: on extension arms with $\varnothing 60 \times 100$ mm ending
Ingress protection: IP 66 for the optical part, IP 54 for the driver
Material: anodised aluminium alloy
Colour: inox / black
Optical system: PMMA optics
Number of LEDs: 12 for 36 W, 16 for 48 W
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,035 m³
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0.95
 Luminaire GEMINI LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



Lighting example



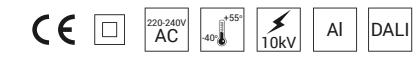
Local road

GEMINI LED 48 W

Parameters:

H – luminaire mounting height: 7 m
 W – pole spacing: 33 m
 S – road width: 5,5 m

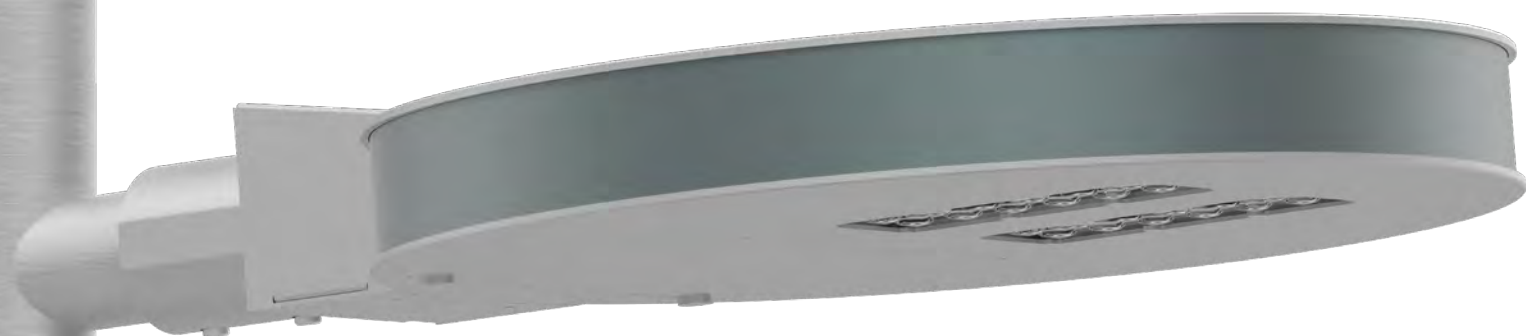
Lighting class M5



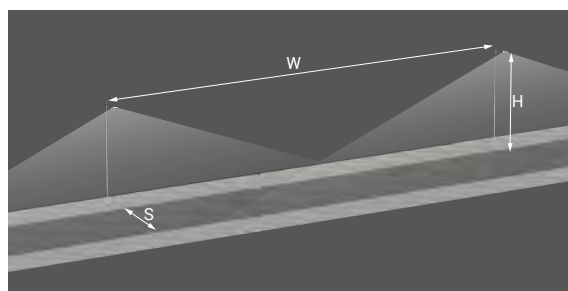
Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
214332/1	GEMINI LED 36	36 W	42 W	1 000 mA	2 700 K	4 950 lm	4 750 lm	113 lm/W	8 kg
214332/3	GEMINI LED 36	36 W	42 W	1 000 mA	3 500 K	5 200 lm	4 900 lm	117 lm/W	8 kg
214332/4	GEMINI LED 36	36 W	42 W	1 000 mA	4 000 K	5 900 lm	5 600 lm	133 lm/W	8 kg
214332/6	GEMINI LED 36	36 W	42 W	1 000 mA	5 000 K	5 900 lm	5 600 lm	133 lm/W	8 kg
214333/1	GEMINI LED 48	48 W	55 W	1 000 mA	2 700 K	6 600 lm	6 300 lm	115 lm/W	8 kg
214333/3	GEMINI LED 48	48 W	55 W	1 000 mA	3 500 K	6 900 lm	6 550 lm	119 lm/W	8 kg
214333/4	GEMINI LED 48	48 W	55 W	1 000 mA	4 000 K	7 800 lm	7 400 lm	135 lm/W	8 kg
214333/6	GEMINI LED 48	48 W	55 W	1 000 mA	5 000 K	7 800 lm	7 400 lm	135 lm/W	8 kg

LED lámpatestek

VEGA LED



Lighting example



Local road

VEGA LED 60 W, T3 optics

Parameters:

H – luminaire mounting height: 7,7 m

W – pole spacing: 35 m

S – road width: 6 m

Lighting class P4

Application: urban roads, residential streets, pedestrian walkways

Installation: pole top mounted with $\varnothing 60 \times 100$ mm ending

Ingress protection: IP 66 for the optical part and the driver

Material: anodised aluminium alloy

Colour: inox / graphite

Optical system: PMMA optics, interchangeable LED module

Number of LEDs: 24

Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

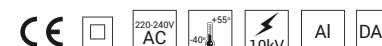
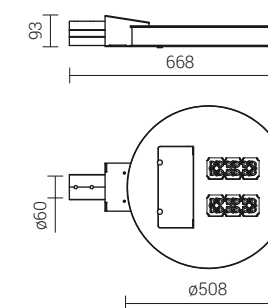
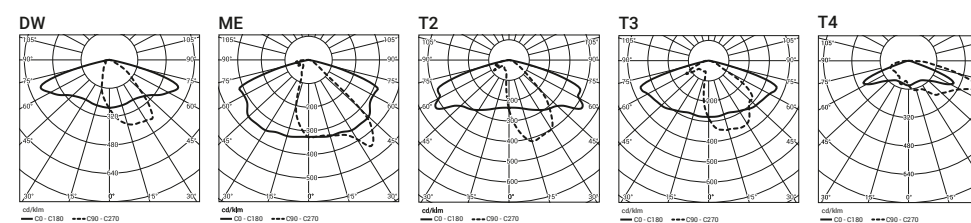
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 0,068 m³

Input voltage frequency: 50/60 Hz

Power factor: ≥ 0.95

Luminaire VEGA LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).

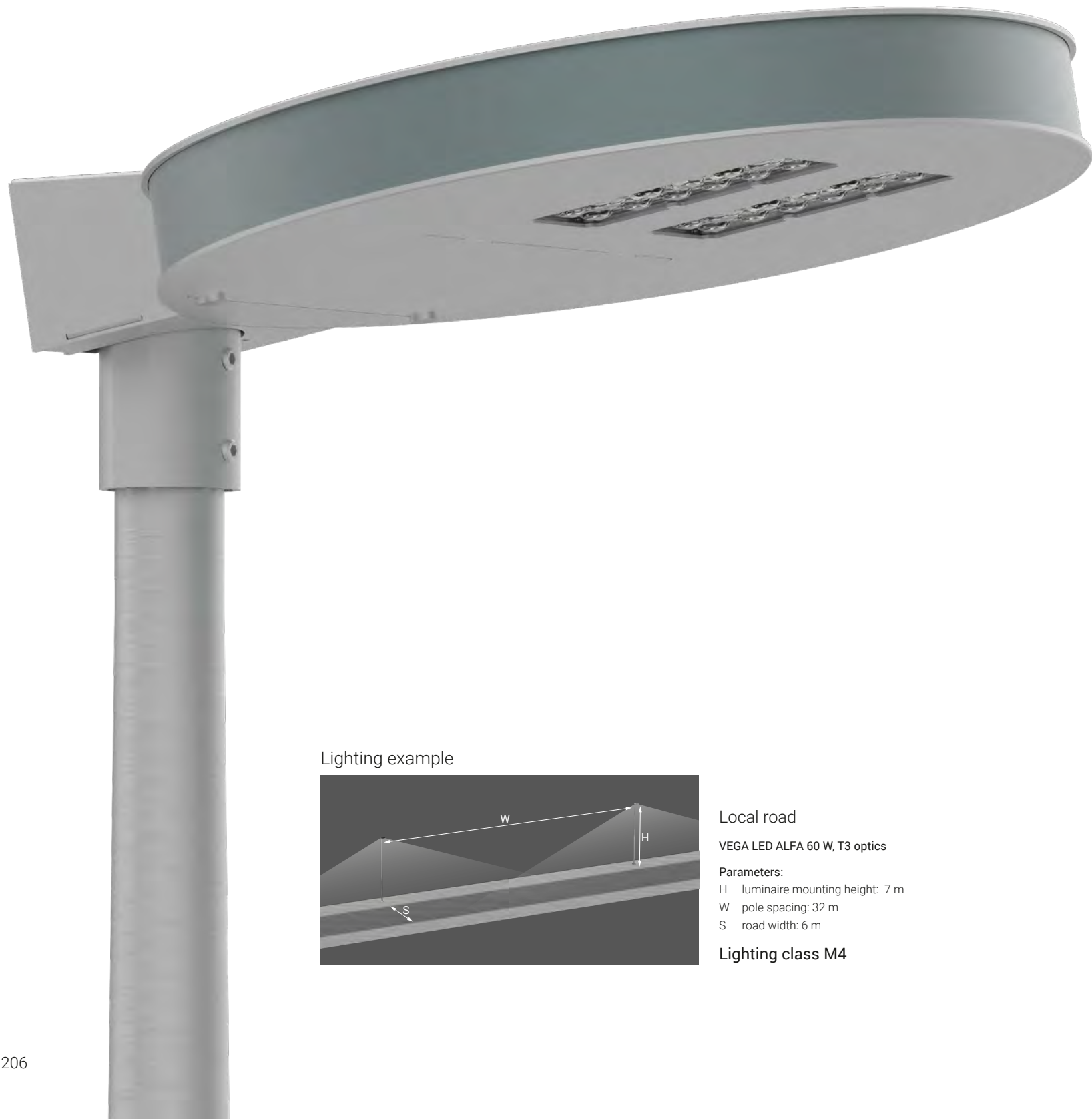


Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
2141034/1/...	VEGA LED 60	60 W	67 W	830 mA	2 700 K	8 150 lm	7 350 lm	110 lm/W	10 kg
2141034/3/...	VEGA LED 60	60 W	67 W	830 mA	3 500 K	8 500 lm	7 750 lm	116 lm/W	10 kg
2141034/4/...	VEGA LED 60	60 W	67 W	830 mA	4 000 K	10 050 lm	9 050 lm	135 lm/W	10 kg
2141034/6/...	VEGA LED 60	60 W	67 W	830 mA	5 000 K	10 050 lm	9 050 lm	135 lm/W	10 kg

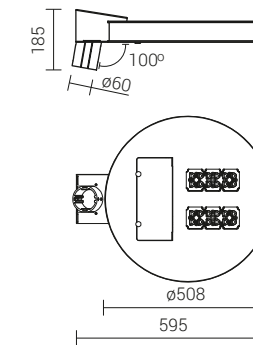
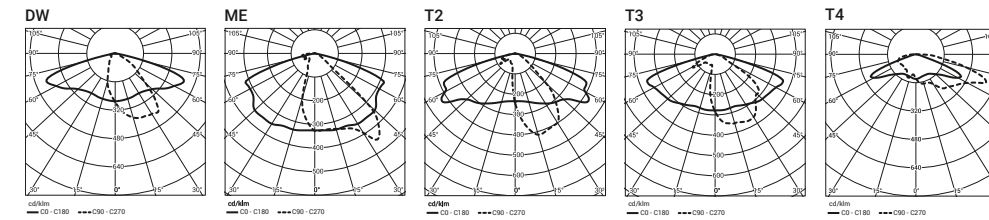
/... Symbol of selected optical system



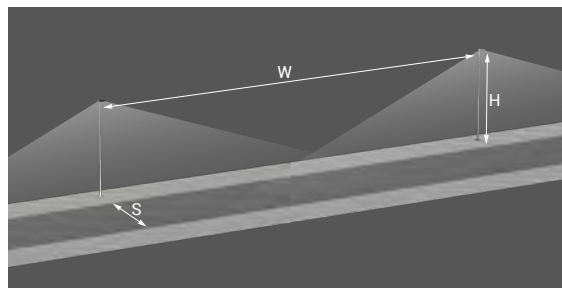
VEGA LED ALFA



Application: urban roads, residential streets, parks, pedestrian walkways
Installation: pole top mounted with ø60x100 mm ending
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium alloy
Colour: inox / graphite
Optical system: PMMA optics, interchangeable LED module
Number of LEDs: 24
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,099 m³
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95
 Luminaire VEGA LED ALFA has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



Lighting example



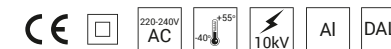
Local road

VEGA LED ALFA 60 W, T3 optics

Parameters:

H – luminaire mounting height: 7 m
 W – pole spacing: 32 m
 S – road width: 6 m

Lighting class M4



Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
2142034/1/...	VEGA LED ALFA 60	60 W	67 W	830 mA	2 700 K	8 150 lm	7 350 lm	110 lm/W	10 kg
2142034/3/...	VEGA LED ALFA 60	60 W	67 W	830 mA	3 500 K	8 500 lm	7 750 lm	116 lm/W	10 kg
2142034/4/...	VEGA LED ALFA 60	60 W	67 W	830 mA	4 000 K	10 050 lm	9 050 lm	135 lm/W	10 kg
2142034/6/...	VEGA LED ALFA 60	60 W	67 W	830 mA	5 000 K	10 050 lm	9 050 lm	135 lm/W	10 kg

/... Symbol of selected optical system

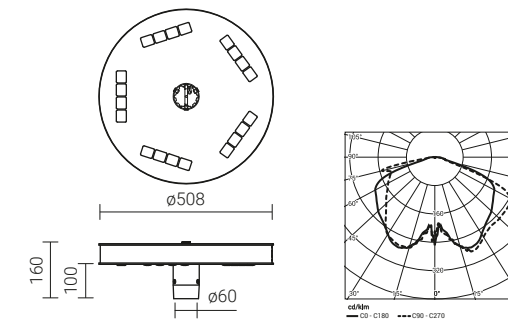


VEGA LED BETA

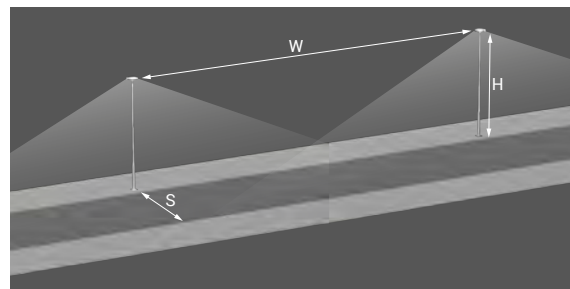


Application: parks, pedestrian walkways, parking
Installation: pole top mounted with ø60x95 mm ending
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium alloy
Colour: inox / graphite
Optical system: PMMA optics
Number of LEDs: 20
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,068 m³
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95

Luminaire VEGA LED BETA has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10 V).



Lighting example



Bicycle and pedestrian path

VEGA LED BETA 60 W

Parameters:

H – luminaire mounting height: 5 m
 W – pole spacing: 18 m
 S – road width: 5 m

Lighting class P2

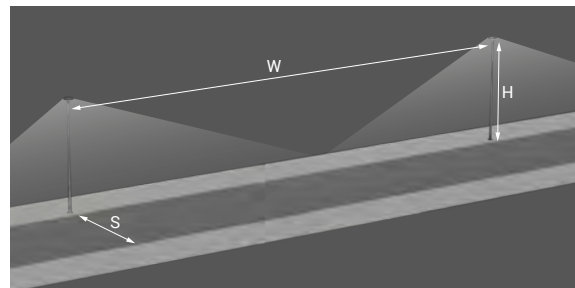


Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
214032/1	VEGA LED BETA 36	36 W	42 W	600 mA	2 700 K	5 150 lm	4 750 lm	113 lm/W	9,5 kg
214032/3	VEGA LED BETA 36	36 W	42 W	600 mA	3 500 K	5 400 lm	5 000 lm	119 lm/W	9,5 kg
214032/4	VEGA LED BETA 36	36 W	42 W	600 mA	4 000 K	6 350 lm	5 850 lm	139 lm/W	9,5 kg
214032/6	VEGA LED BETA 36	36 W	42 W	600 mA	5 000 K	6 350 lm	5 850 lm	139 lm/W	9,5 kg
214033/1	VEGA LED BETA 48	48 W	55 W	800 mA	2 700 K	6 550 lm	6 050 lm	110 lm/W	9,5 kg
214033/3	VEGA LED BETA 48	48 W	55 W	800 mA	3 500 K	6 900 lm	6 400 lm	116 lm/W	9,5 kg
214033/4	VEGA LED BETA 48	48 W	55 W	800 mA	4 000 K	8 100 lm	7 500 lm	136 lm/W	9,5 kg
214033/6	VEGA LED BETA 48	48 W	55 W	800 mA	5 000 K	8 100 lm	7 500 lm	136 lm/W	9,5 kg
214034/1	VEGA LED BETA 60	60 W	67 W	1 000 mA	2 700 K	7 850 lm	7 250 lm	108 lm/W	9,5 kg
214034/3	VEGA LED BETA 60	60 W	67 W	1 000 mA	3 500 K	8 250 lm	7 600 lm	113 lm/W	9,5 kg
214034/4	VEGA LED BETA 60	60 W	67 W	1 000 mA	4 000 K	9 700 lm	8 950 lm	134 lm/W	9,5 kg
214034/6	VEGA LED BETA 60	60 W	67 W	1 000 mA	5 000 K	9 700 lm	8 950 lm	134 lm/W	9,5 kg

CORONA LED



Lighting example



Residential street with sidewalk

CORONA LED 72 W

Parameters:

H – luminaire mounting height: 6 m

W – pole spacing: 31 m

S – road width: 3 m; sidewalk width: 3 m

Lighting class C3

Application: office building surrounding, parks, parking lots

Installation: pole top mounted with $\varnothing 60 \times 80$ mm ending

Ingress protection: IP 66

Material: body - anodised aluminium alloy
diffuser- frosted (PMMA)

Colour: inox / graphite

Number of LEDs: 216

Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

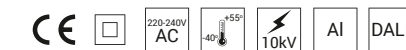
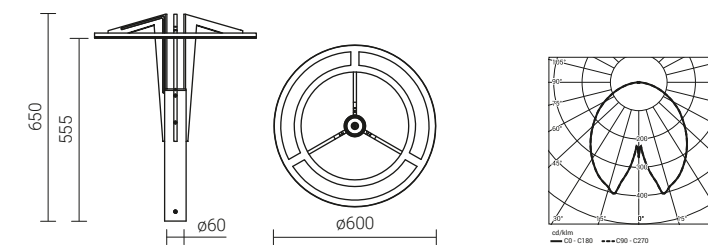
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 0,25 m³

Input voltage frequency: 50/60 Hz

Power factor: $\geq 0,95$

Luminaire CORONA LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10 V).



Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
214735/1	CORONA LED 72	72 W	80 W	1 000 mA	2 700 K	9 650 lm	8 250 lm	103 lm/W	13 kg
214735/3	CORONA LED 72	72 W	80 W	1 000 mA	3 500 K	9 900 lm	8 500 lm	106 lm/W	13 kg
214735/4	CORONA LED 72	72 W	80 W	1 000 mA	4 000 K	10 200 lm	8 750 lm	109 lm/W	13 kg
214735/6	CORONA LED 72	72 W	80 W	1 000 mA	5 000 K	10 500 lm	9 000 lm	112 lm/W	13 kg

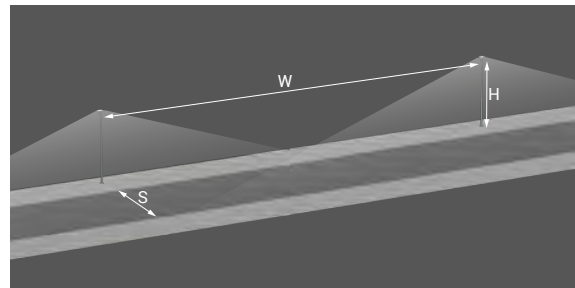


LED lámpatestek
MIRA LED



Application: residential streets, office building surroundings, parks, pedestrian walkways, cycle paths
Installation: pole top mounted with $\varnothing 60 \times 80$ mm ending
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium alloy
Colour: inox / graphite
Optical system: PMMA optics
Number of LEDs: 12
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,155 m³
Input voltage frequency: 50/60 Hz
Power factor: $\geq 0,95$
 Luminaire MIRA LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).

Lighting example



Pedestrian walkway 6 m

MIRA LED 36 W

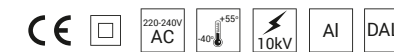
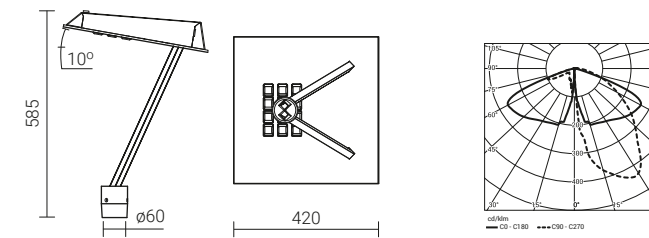
Parameters:

H – luminaire mounting height: 4,5 m

W – pole spacing: 30 m

S – road width: 6 m

Lighting class P3



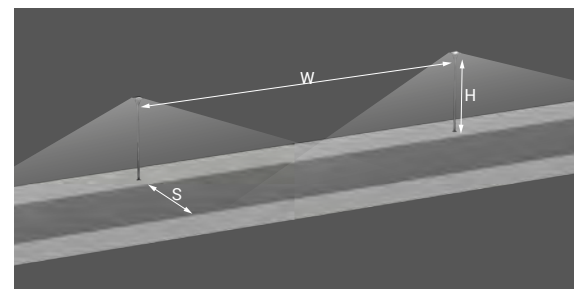
Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
214530/1	MIRA LED 24	24 W	28 W	700 mA	2 700 K	3 600 lm	3 150 lm	113 lm/W	6,1 kg
214530/3	MIRA LED 24	24 W	28 W	700 mA	3 500 K	3 700 lm	3 350 lm	120 lm/W	6,1 kg
214530/4	MIRA LED 24	24 W	28 W	700 mA	4 000 K	4 350 lm	3 850 lm	138 lm/W	6,1 kg
214530/6	MIRA LED 24	24 W	28 W	700 mA	5 000 K	4 350 lm	3 850 lm	138 lm/W	6,1 kg
214532/1	MIRA LED 36	36 W	40 W	1 000 mA	2 700 K	4 900 lm	4 350 lm	109 lm/W	6,1 kg
214532/3	MIRA LED 36	36 W	40 W	1 000 mA	3 500 K	5 100 lm	4 600 lm	115 lm/W	6,1 kg
214532/4	MIRA LED 36	36 W	40 W	1 000 mA	4 000 K	6 000 lm	5 300 lm	133 lm/W	6,1 kg
214532/6	MIRA LED 36	36 W	40 W	1 000 mA	5 000 K	6 000 lm	5 300 lm	133 lm/W	6,1 kg



MIZAR LED



Lighting example



Bicycle and pedestrian path

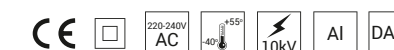
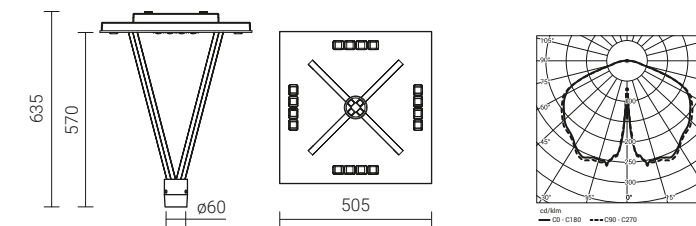
MIZAR LED 48 W

Parameters:

- H – luminaire mounting height: 4,5 m
- W – pole spacing: 22 m
- S – road width: 4 m

Lighting class P2

Application: office building surrounding, parks, pedestrian walkways, parkings
Installation: pole top mounted with $\varnothing 60 \times 80$ mm ending
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium alloy
Colour: inox / graphite
Optical system: PMMA optics
Number of LEDs: 16
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,172 m³
Input voltage frequency: 50/60 Hz
Power factor: $\geq 0,95$
 Luminaire MIZRA LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10 V).



Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
214432/1	MIZAR LED 36	36 W	41 W	750 mA	2 700 K	5 300 lm	4 850 lm	118 lm/W	9,2 kg
214432/3	MIZAR LED 36	36 W	41 W	750 mA	3 500 K	5 450 lm	5 050 lm	123 lm/W	9,2 kg
214432/4	MIZAR LED 36	36 W	41 W	750 mA	4 000 K	6 300 lm	5 750 lm	140 lm/W	9,2 kg
214432/6	MIZAR LED 36	36 W	41 W	750 mA	5 000 K	6 300 lm	5 750 lm	140 lm/W	9,2 kg
214433/1	MIZAR LED 48	48 W	55 W	1 000 mA	2 700 K	6 600 lm	6 150 lm	111 lm/W	9,2 kg
214433/3	MIZAR LED 48	48 W	55 W	1 000 mA	3 500 K	6 900 lm	6 400 lm	116 lm/W	9,2 kg
214433/4	MIZAR LED 48	48 W	55 W	1 000 mA	4 000 K	7 800 lm	7 200 lm	131 lm/W	9,2 kg
214433/6	MIZAR LED 48	48 W	55 W	1 000 mA	5 000 K	7 800 lm	7 200 lm	131 lm/W	9,2 kg



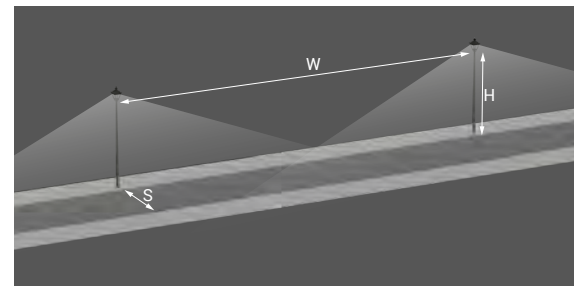
LED lámpatestek
OS-1 LED



Application: parks, pedestrian walkways
Installation: on S and SP type columns with spigot type B, on bracket configurations, on wall brackets KR, KP columns, extension arms, aluminium wall brackets with $\varnothing 60 \times 60$ mm ending
Ingress protection: IP 66 for the optical part, IP 54 for the driver
Material: body – UV resistant polypropylene with glass fiber.
Colour: black / LED panel inox
Optical system: PMMA optics
Number of LEDs: 16
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,1 m³
Input voltage frequency: 50/60 Hz
Power factor: $\geq 0,95$
 Luminaire OS-1 LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10 V).



Lighting example

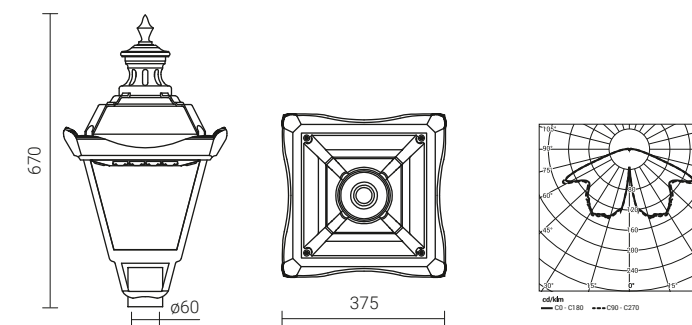


Park avenue

OS-1 LED

Parameters:
 H – luminaire mounting height: 4 m
 W – pole spacing: 19 m
 S – road width: 4 m

Lighting class P3

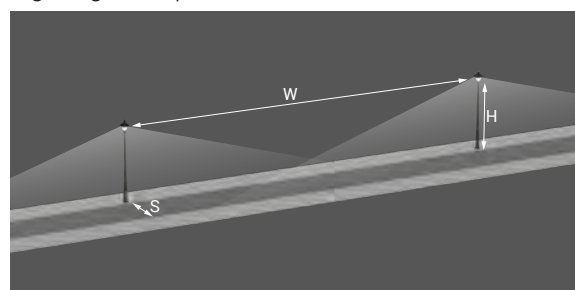


Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
211331/1/...	OS-1 LED 32	32 W	36 W	700 mA	2 700 K	4 950 lm	3 600 lm	100 lm/W	5,2 kg
211331/3/...	OS-1 LED 32	32 W	36 W	700 mA	3 500 K	5 150 lm	3 750 lm	104 lm/W	5,2 kg
211331/4/...	OS-1 LED 32	32 W	36 W	700 mA	4 000 K	5 900 lm	4 250 lm	118 lm/W	5,2 kg
211331/6/...	OS-1 LED 32	32 W	36 W	700 mA	5 000 K	5 900 lm	4 250 lm	118 lm/W	5,2 kg

OS-11 LED



Lighting example



Sidewalk

OS-11 LED, frosted diffuser

Parameters:

H – luminaire mounting height: 3,7 m

W – pole spacing: 30 m

S – sidewalk width: 4 m

Lighting class P3

Application: parks, pedestrian walkways

Installation: on S and SP type columns with spigot type B, on bracket configurations on wall brackets KR, KP columns, extension arms, aluminium wall brackets with $\phi 60 \times 60$ mm ending

Ingress protection: IP 66 for the optical part, IP 54 for the driver

Material: body – UV resistant polypropylene with glass fiber
diffuser – frosted or transparent (PMMA)

Colour: black

Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

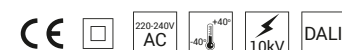
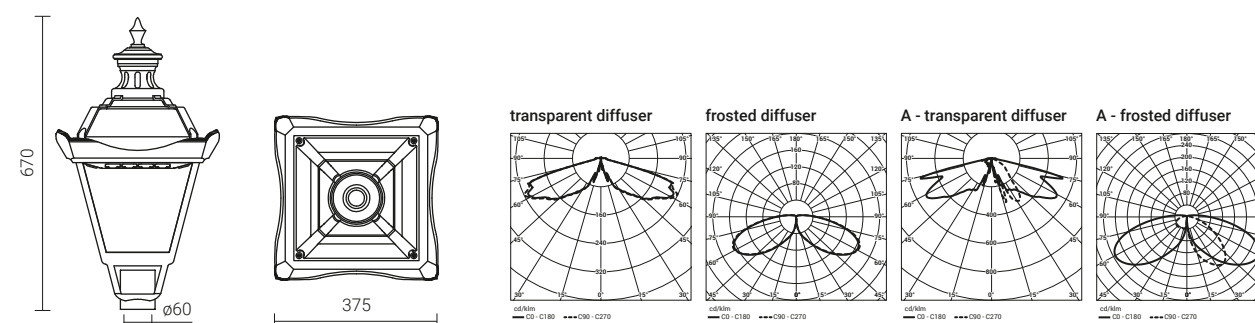
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 0,1 m³

Input voltage frequency: 50/60 Hz

Power factor: $\geq 0,95$

Luminaire OS-11 LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10 V).



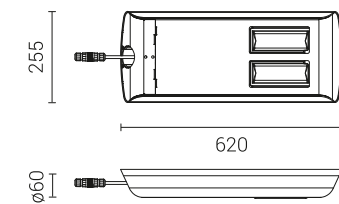
Code	Name	Diffuser	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
2110050/1	OS-11 LED	frosted	38 W	42 W	800 mA	2 700 K	4 650 lm	3 650 lm	87 lm/W	5,3 kg
2110050/3	OS-11 LED	frosted	38 W	42 W	800 mA	3 500 K	4 900 lm	3 850 lm	92 lm/W	5,3 kg
2110050/4	OS-11 LED	frosted	38 W	42 W	800 mA	4 000 K	6 300 lm	4 950 lm	118 lm/W	5,3 kg
2110050/6	OS-11 LED	frosted	38 W	42 W	800 mA	5 000 K	6 300 lm	4 950 lm	118 lm/W	5,3 kg
2112050/1	OS-11 LED	transparent	38 W	42 W	800 mA	2 700 K	4 650 lm	3 800 lm	90 lm/W	5,3 kg
2112050/3	OS-11 LED	transparent	38 W	42 W	800 mA	3 500 K	4 900 lm	4 000 lm	95 lm/W	5,3 kg
2112050/4	OS-11 LED	transparent	38 W	42 W	800 mA	4 000 K	6 300 lm	5 150 lm	123 lm/W	5,3 kg
2112050/6	OS-11 LED	transparent	38 W	42 W	800 mA	5 000 K	6 300 lm	5 150 lm	123 lm/W	5,3 kg
2110050/1/A	OS-11 LED	frosted	38 W	42 W	800 mA	2 700 K	4 650 lm	3 500 lm	83 lm/W	5,3 kg
2110050/3/A	OS-11 LED	frosted	38 W	42 W	800 mA	3 500 K	4 900 lm	3 700 lm	88 lm/W	5,3 kg
2110050/4/A	OS-11 LED	frosted	38 W	42 W	800 mA	4 000 K	6 300 lm	4 750 lm	113 lm/W	5,3 kg
2110050/6/A	OS-11 LED	frosted	38 W	42 W	800 mA	5 000 K	6 300 lm	4 750 lm	113 lm/W	5,3 kg
2112050/1/A	OS-11 LED	transparent	38 W	42 W	800 mA	2 700 K	4 650 lm	3 650 lm	87 lm/W	5,3 kg
2112050/3/A	OS-11 LED	transparent	38 W	42 W	800 mA	3 500 K	4 900 lm	3 850 lm	92 lm/W	5,3 kg
2112050/4/A	OS-11 LED	transparent	38 W	42 W	800 mA	4 000 K	6 300 lm	4 950 lm	118 lm/W	5,3 kg
2112050/6/A	OS-11 LED	transparent	38 W	42 W	800 mA	5 000 K	6 300 lm	4 950 lm	118 lm/W	5,3 kg



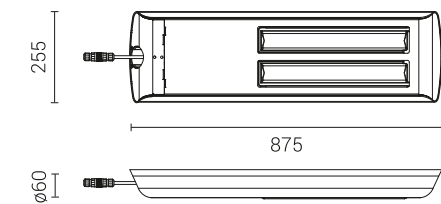
CUDDLE II LED



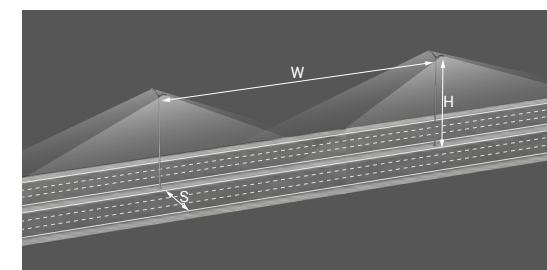
CUDDLE II LED 48W, 60W, 72W



CUDDLE II LED 96W, 120W, 144W, 192W



Lighting example

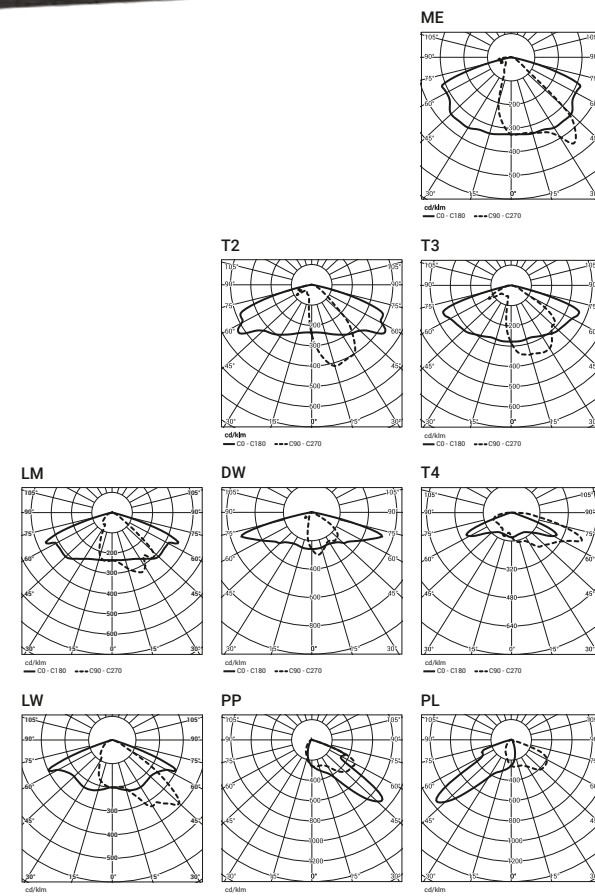


Six-lane road with median strip
CUDDLE II LED 144 W, T3 optics

Parameters:

H – luminaire mounting height: 12 m
W – pole spacing: 43 m
S – road width: 10,5 m

Lighting class M2



Application: highways and expressways, urban roads, residential streets, pedestrian walkways, parking

Installation: on extension arms with $\varnothing 60 \times 100$ mm ending

Ingress protection: IP 66 for the optical part and the driver

Material: anodised aluminium alloy

Colour: inox / black

Optical system: PMMA optics, interchangeable LED module, PC-UV diffuser

Number of LEDs: 24 (for 48 W, 60 W, 72 W); 64 (for 96 W, 120 W, 144 W, 192 W)

Operating temperature range: from -40°C to $+40^{\circ}\text{C}$

Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 0,024 m³ (for 48 W, 60 W, 72 W), 0,033 m³ (for 96 W, 120 W, 144 W, 192 W)

Input voltage frequency: 50/60 Hz

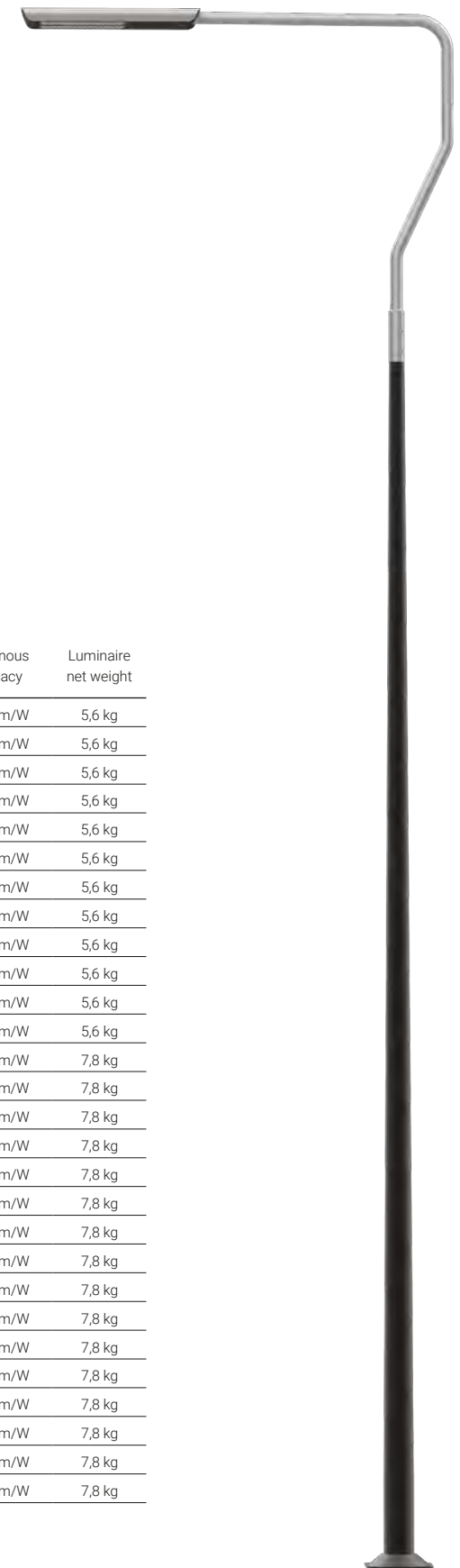
Power factor: $\geq 0,95$

Luminaire CUDDLE II LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).

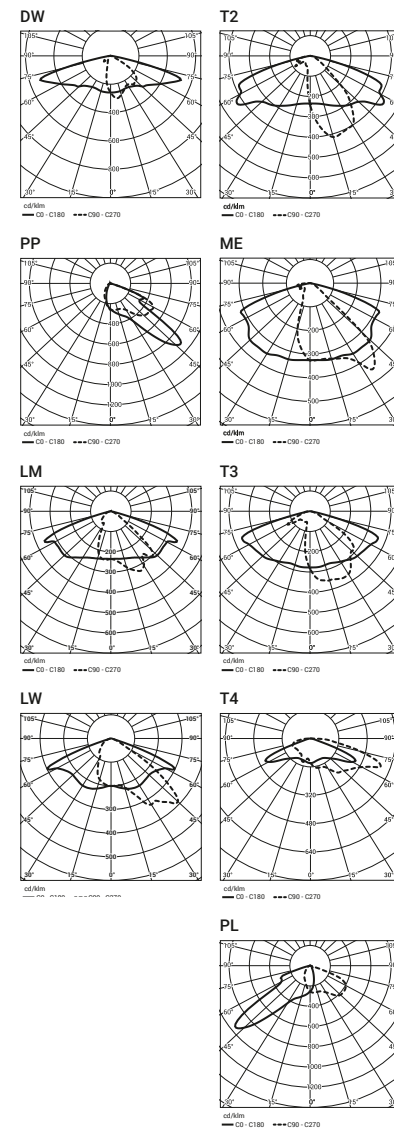
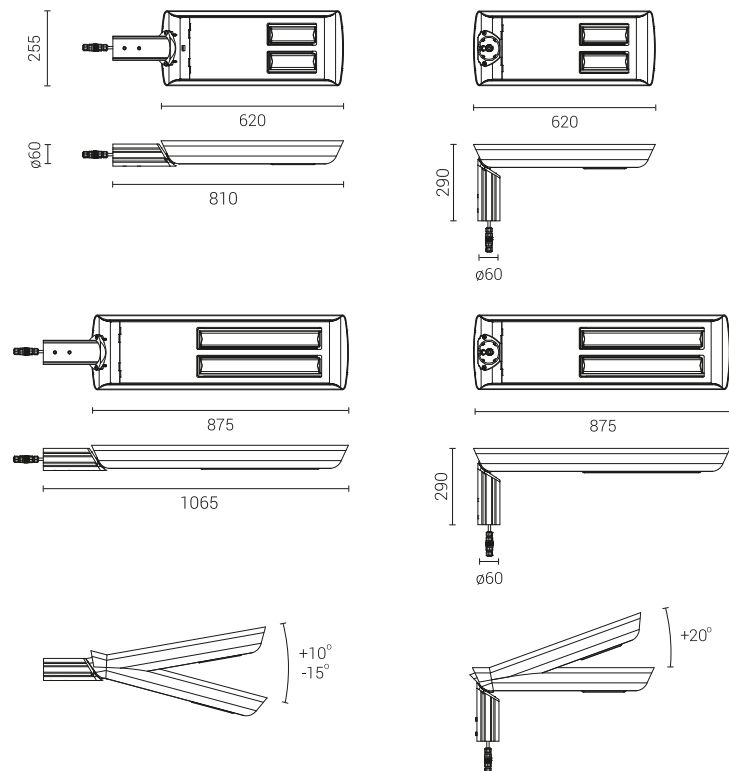


Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
2223033/1/...	CUDDLE II LED 48	48 W	55 W	700 mA	2 700 K	7 050 lm	6 000 lm	109 lm/W	5,6 kg
2223033/3/...	CUDDLE II LED 48	48 W	55 W	700 mA	3 500 K	7 350 lm	6 250 lm	114 lm/W	5,6 kg
2223033/4/...	CUDDLE II LED 48	48 W	55 W	700 mA	4 000 K	8 650 lm	7 450 lm	135 lm/W	5,6 kg
2223033/6/...	CUDDLE II LED 48	48 W	55 W	700 mA	5 000 K	8 650 lm	7 450 lm	135 lm/W	5,6 kg
2223034/1/...	CUDDLE II LED 60	60 W	67 W	830 mA	2 700 K	8 150 lm	7 000 lm	104 lm/W	5,6 kg
2223034/3/...	CUDDLE II LED 60	60 W	67 W	830 mA	3 500 K	8 500 lm	7 350 lm	110 lm/W	5,6 kg
2223034/4/...	CUDDLE II LED 60	60 W	67 W	830 mA	4 000 K	10 050 lm	8 550 lm	128 lm/W	5,6 kg
2223034/6/...	CUDDLE II LED 60	60 W	67 W	830 mA	5 000 K	10 050 lm	8 550 lm	128 lm/W	5,6 kg
2223035/1/...	CUDDLE II LED 72	72 W	79 W	1 000 mA	2 700 K	9 450 lm	8 050 lm	102 lm/W	5,6 kg
2223035/3/...	CUDDLE II LED 72	72 W	79 W	1 000 mA	3 500 K	9 900 lm	8 450 lm	107 lm/W	5,6 kg
2223035/4/...	CUDDLE II LED 72	72 W	79 W	1 000 mA	4 000 K	11 650 lm	9 950 lm	126 lm/W	5,6 kg
2223035/6/...	CUDDLE II LED 72	72 W	79 W	1 000 mA	5 000 K	11 650 lm	9 950 lm	126 lm/W	5,6 kg
2223037/1/...	CUDDLE II LED 96	96 W	105 W	500 mA	2 700 K	14 850 lm	12 700 lm	121 lm/W	7,8 kg
2223037/3/...	CUDDLE II LED 96	96 W	105 W	500 mA	3 500 K	15 500 lm	13 200 lm	126 lm/W	7,8 kg
2223037/4/...	CUDDLE II LED 96	96 W	105 W	500 mA	4 000 K	18 000 lm	15 300 lm	146 lm/W	7,8 kg
2223037/6/...	CUDDLE II LED 96	96 W	105 W	500 mA	5 000 K	18 000 lm	15 300 lm	146 lm/W	7,8 kg
2223039/1/...	CUDDLE II LED 120	120 W	129 W	625 mA	2 700 K	17 900 lm	15 250 lm	118 lm/W	7,8 kg
2223039/3/...	CUDDLE II LED 120	120 W	129 W	625 mA	3 500 K	18 700 lm	15 900 lm	123 lm/W	7,8 kg
2223039/4/...	CUDDLE II LED 120	120 W	129 W	625 mA	4 000 K	21 700 lm	18 400 lm	143 lm/W	7,8 kg
2223039/6/...	CUDDLE II LED 120	120 W	129 W	625 mA	5 000 K	21 700 lm	18 400 lm	143 lm/W	7,8 kg
2223041/1/...	CUDDLE II LED 144	144 W	154 W	750 mA	2 700 K	20 600 lm	17 500 lm	114 lm/W	7,8 kg
2223041/3/...	CUDDLE II LED 144	144 W	154 W	750 mA	3 500 K	21 500 lm	18 300 lm	119 lm/W	7,8 kg
2223041/4/...	CUDDLE II LED 144	144 W	154 W	750 mA	4 000 K	24 900 lm	21 200 lm	138 lm/W	7,8 kg
2223041/6/...	CUDDLE II LED 144	144 W	154 W	750 mA	5 000 K	24 900 lm	21 200 lm	138 lm/W	7,8 kg
2223046/1/...	CUDDLE II LED 192	192 W	205 W	1 000 mA	2 700 K	24 000 lm	20 400 lm	100 lm/W	7,8 kg
2223046/3/...	CUDDLE II LED 192	192 W	205 W	1 000 mA	3 500 K	25 000 lm	21 300 lm	104 lm/W	7,8 kg
2223046/4/...	CUDDLE II LED 192	192 W	205 W	1 000 mA	4 000 K	29 000 lm	24 600 lm	120 lm/W	7,8 kg
2223046/6/...	CUDDLE II LED 192	192 W	205 W	1 000 mA	5 000 K	29 000 lm	24 600 lm	120 lm/W	7,8 kg

/... Symbol of selected optical system



CUDDLE II LED REG



Application: highways and expressways, urban roads, residential streets, pedestrian walkways, parking
Installation: on extension arms with $\phi 60 \times 100$ mm ending
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium alloy
Colour: inox / black
Optical system: PMMA optics, interchangeable LED module, PC-UV diffuser
Number of LEDs: 24 (for 48 W, 60 W, 72 W); 64 (for 96 W, 120 W, 144 W, 192 W)
Operating temperature range: from -40°C to $+40^{\circ}\text{C}$
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,024 m³ (for 48 W, 60 W, 72 W), 0,033 m³ (for 96 W, 120 W, 144 W, 192 W)
Input voltage frequency: 50/60 Hz
Power factor: $\geq 0,95$
 Luminaire CUDDLE II LED REG has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
2223133/1/...	CUDDLE II LED REG 48	48 W	55 W	700 mA	2 700 K	7 050 lm	6 000 lm	109 lm/W	6,7 kg
2223133/3/...	CUDDLE II LED REG 48	48 W	55 W	700 mA	3 500 K	7 350 lm	6 250 lm	114 lm/W	6,7 kg
2223133/4/...	CUDDLE II LED REG 48	48 W	55 W	700 mA	4 000 K	8 650 lm	7 450 lm	135 lm/W	6,7 kg
2223133/6/...	CUDDLE II LED REG 48	48 W	55 W	700 mA	5 000 K	8 650 lm	7 450 lm	135 lm/W	6,7 kg
2223134/1/...	CUDDLE II LED REG 60	60 W	67 W	830 mA	2 700 K	8 150 lm	7 000 lm	104 lm/W	6,7 kg
2223134/3/...	CUDDLE II LED REG 60	60 W	67 W	830 mA	3 500 K	8 500 lm	7 350 lm	110 lm/W	6,7 kg
2223134/4/...	CUDDLE II LED REG 60	60 W	67 W	830 mA	4 000 K	10 050 lm	8 550 lm	128 lm/W	6,7 kg
2223134/6/...	CUDDLE II LED REG 60	60 W	67 W	830 mA	5 000 K	10 050 lm	8 550 lm	128 lm/W	6,7 kg
2223135/1/...	CUDDLE II LED REG 72	72 W	79 W	1 000 mA	2 700 K	9 450 lm	8 050 lm	102 lm/W	6,7 kg
2223135/3/...	CUDDLE II LED REG 72	72 W	79 W	1 000 mA	3 500 K	9 900 lm	8 450 lm	107 lm/W	6,7 kg
2223135/4/...	CUDDLE II LED REG 72	72 W	79 W	1 000 mA	4 000 K	11 650 lm	9 950 lm	126 lm/W	6,7 kg
2223135/6/...	CUDDLE II LED REG 72	72 W	79 W	1 000 mA	5 000 K	11 650 lm	9 950 lm	126 lm/W	6,7 kg
2223137/1/...	CUDDLE II LED REG 96	96 W	105 W	500 mA	2 700 K	14 850 lm	12 700 lm	121 lm/W	9 kg
2223137/3/...	CUDDLE II LED REG 96	96 W	105 W	500 mA	3 500 K	15 500 lm	13 200 lm	126 lm/W	9 kg
2223137/4/...	CUDDLE II LED REG 96	96 W	105 W	500 mA	4 000 K	18 000 lm	15 300 lm	146 lm/W	9 kg
2223137/6/...	CUDDLE II LED REG 96	96 W	105 W	500 mA	5 000 K	18 000 lm	15 300 lm	146 lm/W	9 kg
2223139/1/...	CUDDLE II LED REG 120	120 W	129 W	625 mA	2 700 K	17 900 lm	15 250 lm	118 lm/W	9 kg
2223139/3/...	CUDDLE II LED REG 120	120 W	129 W	625 mA	3 500 K	18 700 lm	15 900 lm	123 lm/W	9 kg
2223139/4/...	CUDDLE II LED REG 120	120 W	129 W	625 mA	4 000 K	21 700 lm	18 400 lm	143 lm/W	9 kg
2223139/6/...	CUDDLE II LED REG 120	120 W	129 W	625 mA	5 000 K	21 700 lm	18 400 lm	143 lm/W	9 kg
2223141/1/...	CUDDLE II LED REG 144	144 W	154 W	750 mA	2 700 K	20 600 lm	17 500 lm	114 lm/W	9 kg
2223141/3/...	CUDDLE II LED REG 144	144 W	154 W	750 mA	3 500 K	21 500 lm	18 300 lm	119 lm/W	9 kg
2223141/4/...	CUDDLE II LED REG 144	144 W	154 W	750 mA	4 000 K	24 900 lm	21 200 lm	138 lm/W	9 kg
2223141/6/...	CUDDLE II LED REG 144	144 W	154 W	750 mA	5 000 K	24 900 lm	21 200 lm	138 lm/W	9 kg
2223146/1/...	CUDDLE II LED REG 192	192 W	205 W	1 000 mA	2 700 K	24 000 lm	20 400 lm	100 lm/W	9 kg
2223146/3/...	CUDDLE II LED REG 192	192 W	205 W	1 000 mA	3 500 K	25 000 lm	21 300 lm	104 lm/W	9 kg
2223146/4/...	CUDDLE II LED REG 192	192 W	205 W	1 000 mA	4 000 K	29 000 lm	24 600 lm	120 lm/W	9 kg
2223146/6/...	CUDDLE II LED REG 192	192 W	205 W	1 000 mA	5 000 K	29 000 lm	24 600 lm	120 lm/W	9 kg

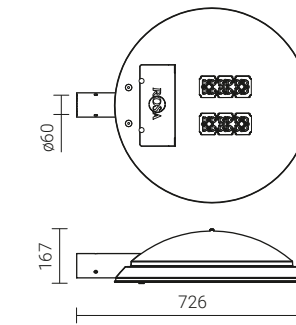
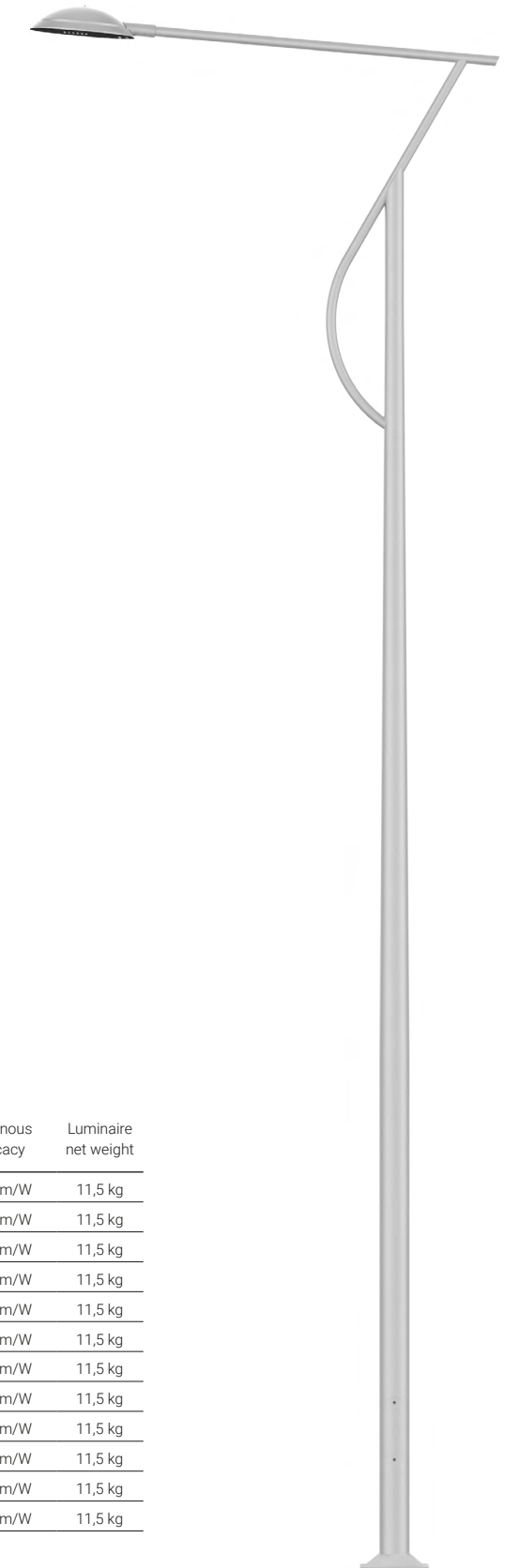
/... Symbol of selected optical system

LED lámpatestek

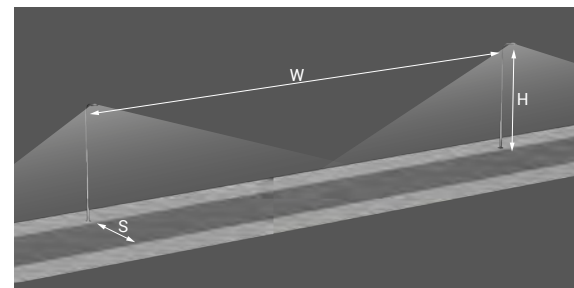
COSMO LED



Application: urban roads, residential streets, pedestrian walkways, parking
Installation: on extension arms with $\varnothing 60 \times 100$ mm ending
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium alloy
Colour: inox / black
Optical system: PMMA optics, interchangeable LED module
Number of LEDs: 24
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,073 m³
Input voltage frequency: 50/60 Hz
Power factor: $\geq 0,95$
 Luminaire COSMO LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



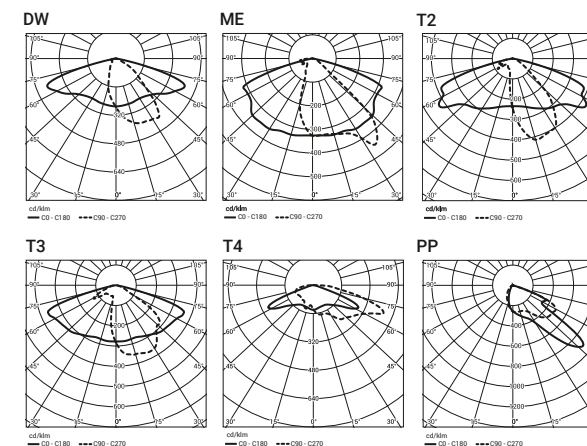
Lighting example



Local road
 COSMO LED 72 W, T3 optics

Parameters:
 H – luminaire mounting height: 9,5 m
 W – pole spacing: 42 m
 S – road width: 6 m

Lighting class M4



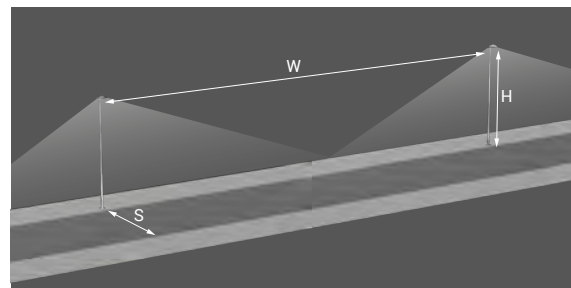
Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
2210033/1/...	COSMO LED 48	48 W	55 W	700 mA	2 700 K	7 050 lm	6 350 lm	115 lm/W	11,5 kg
2210033/3/...	COSMO LED 48	48 W	55 W	700 mA	3 500 K	7 350 lm	6 600 lm	120 lm/W	11,5 kg
2210033/4/...	COSMO LED 48	48 W	55 W	700 mA	4 000 K	8 650 lm	7 800 lm	141 lm/W	11,5 kg
2210033/6/...	COSMO LED 48	48 W	55 W	700 mA	5 000 K	8 650 lm	7 800 lm	141 lm/W	11,5 kg
2210034/1/...	COSMO LED 60	60 W	67 W	830 mA	2 700 K	8 150 lm	7 350 lm	110 lm/W	11,5 kg
2210034/3/...	COSMO LED 60	60 W	67 W	830 mA	3 500 K	8 550 lm	7 750 lm	116 lm/W	11,5 kg
2210034/4/...	COSMO LED 60	60 W	67 W	830 mA	4 000 K	10 050 lm	9 050 lm	135 lm/W	11,5 kg
2210034/6/...	COSMO LED 60	60 W	67 W	830 mA	5 000 K	10 050 lm	9 050 lm	135 lm/W	11,5 kg
2210035/1/...	COSMO LED 72	72 W	79 W	1 000 mA	2 700 K	9 450 lm	8 500 lm	108 lm/W	11,5 kg
2210035/3/...	COSMO LED 72	72 W	79 W	1 000 mA	3 500 K	9 900 lm	9 000 lm	114 lm/W	11,5 kg
2210035/4/...	COSMO LED 72	72 W	79 W	1 000 mA	4 000 K	11 650 lm	10 500 lm	133 lm/W	11,5 kg
2210035/6/...	COSMO LED 72	72 W	79 W	1 000 mA	5 000 K	11 650 lm	10 500 lm	133 lm/W	11,5 kg

/... Symbol of selected optical system

COSMO LED ALFA



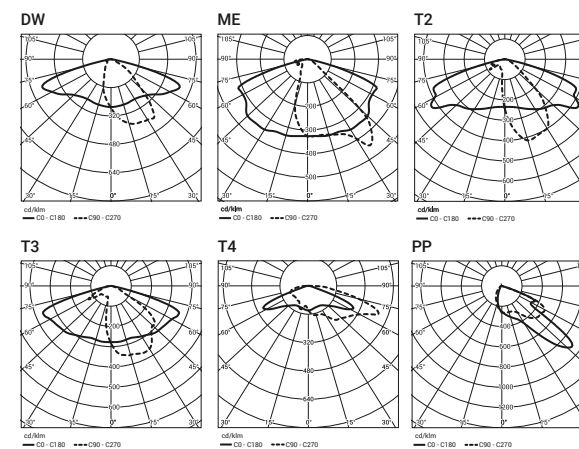
Lighting example



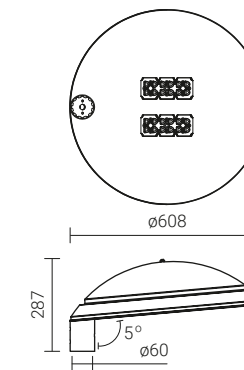
Urban road
COSMO LED ALFA 72 W, DW optics

Parameters:
H – luminaire mounting height: 7 m
W – pole spacing: 31 m
S – road width: 7 m

Lighting class M3



Application: urban roads, residential streets, pedestrian walkways, parking
Installation: pole top mounted with ø60x80 mm ending
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium alloy
Colour: inox / black
Optical system: PMMA optics, interchangeable LED module
Number of LEDs: 24
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,073 m³
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95
 Luminaire COSMO LED ALFA has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
2212033/1/...	COSMO LED ALFA 48	48 W	55 W	700 mA	2 700 K	7 050 lm	6 350 lm	115 lm/W	11 kg
2212033/3/...	COSMO LED ALFA 48	48 W	55 W	700 mA	3 500 K	7 350 lm	6 600 lm	120 lm/W	11 kg
2212033/4/...	COSMO LED ALFA 48	48 W	55 W	700 mA	4 000 K	8 650 lm	7 800 lm	141 lm/W	11 kg
2212033/6/...	COSMO LED ALFA 48	48 W	55 W	700 mA	5 000 K	8 650 lm	7 800 lm	141 lm/W	11 kg
2212034/1/...	COSMO LED ALFA 60	60 W	67 W	830 mA	2 700 K	8 150 lm	7 350 lm	110 lm/W	11 kg
2212034/3/...	COSMO LED ALFA 60	60 W	67 W	830 mA	3 500 K	8 550 lm	7 750 lm	116 lm/W	11 kg
2212034/4/...	COSMO LED ALFA 60	60 W	67 W	830 mA	4 000 K	10 050 lm	9 050 lm	135 lm/W	11 kg
2212034/6/...	COSMO LED ALFA 60	60 W	67 W	830 mA	5 000 K	10 050 lm	9 050 lm	135 lm/W	11 kg
2212035/1/...	COSMO LED ALFA 72	72 W	79 W	1 000 mA	2 700 K	9 450 lm	8 500 lm	108 lm/W	11 kg
2212035/3/...	COSMO LED ALFA 72	72 W	79 W	1 000 mA	3 500 K	9 900 lm	9 000 lm	114 lm/W	11 kg
2212035/4/...	COSMO LED ALFA 72	72 W	79 W	1 000 mA	4 000 K	11 650 lm	10 500 lm	133 lm/W	11 kg
2212035/6/...	COSMO LED ALFA 72	72 W	79 W	1 000 mA	5 000 K	11 650 lm	10 500 lm	133 lm/W	11 kg

/... Symbol of selected optical system





Lędziny, Lengyelország



Tychy, Lengyelország

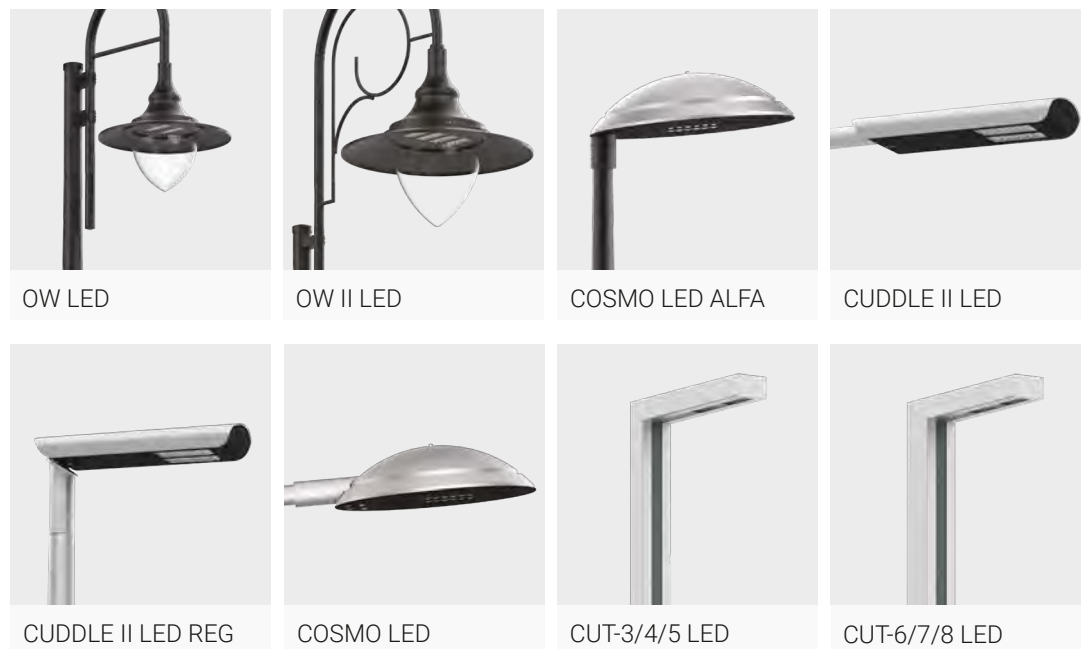


Biztonságos Gyalogos átkelők

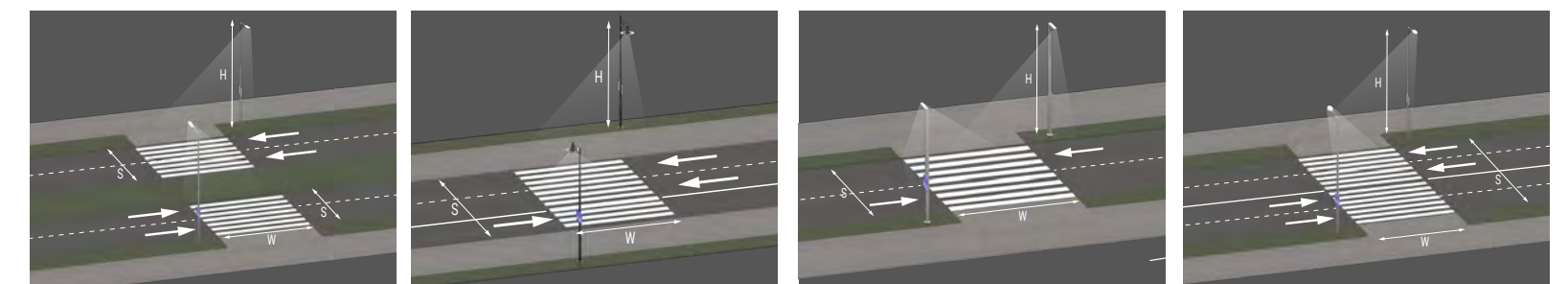
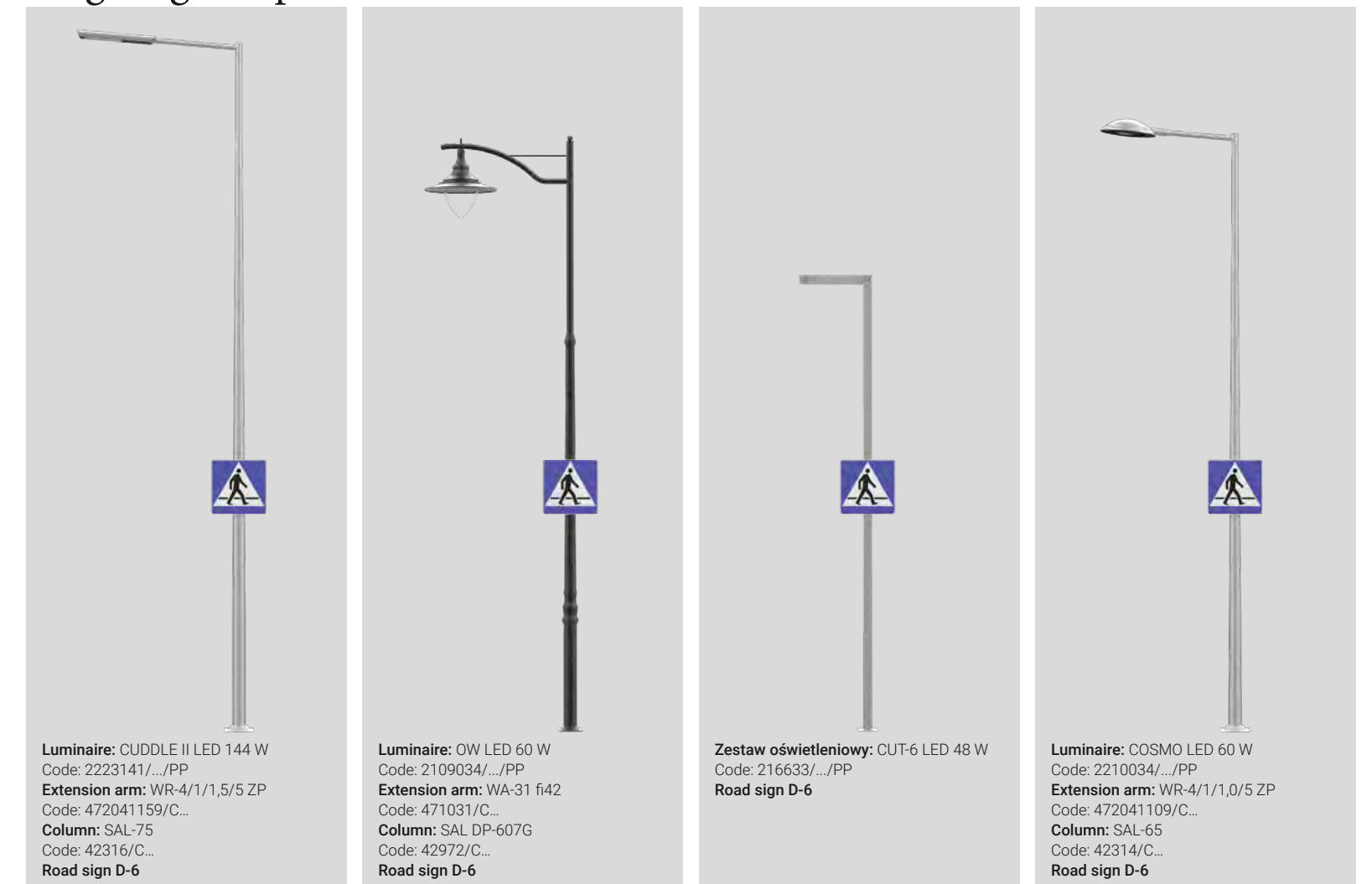
The issue of security is the most important for us all, both drivers and pedestrians. The visibility of traffic users affects the perception of many situations and behaviors on the road. Among the places to pay special attention, pedestrian crossings are the first to be mentioned.

They still need to be modernized to ensure higher security for the pedestrians. One of the priority factors affecting the number of accidents on crossings is the lighting quality of these places. Because of that we are constantly modernizing and testing our products dedicated to these places. Our offer includes columns and luminaires dedicated to pedestrian crossings to provide the right visibility of pedestrian.

Group of luminaires with interchangeable optics dedicated to illuminate pedestrian crossings



Megvilágítási példák



Dual carriageway with two lanes

Parameters:
H - Height: 7,5 m
W - walkway width: 4 m
S - road width: 7m

Single carriageway with three lanes

Parameters:
H - Height: 6 m
W - walkway width: 4 m
S - road width: 10,5 m

Single carriageway with two lanes

Parameters:
H - Height: 5m
W - walkway width: 4 m
S - road width: 7m

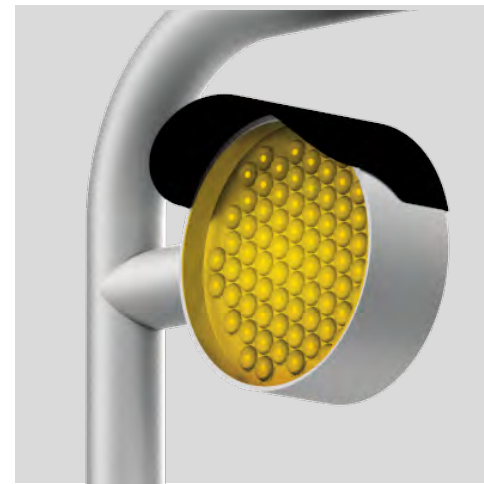
Single carriageway with four lanes

Parameters:
H - Height: 6,5m
W - walkway width: 4 m
S - road width: 14m

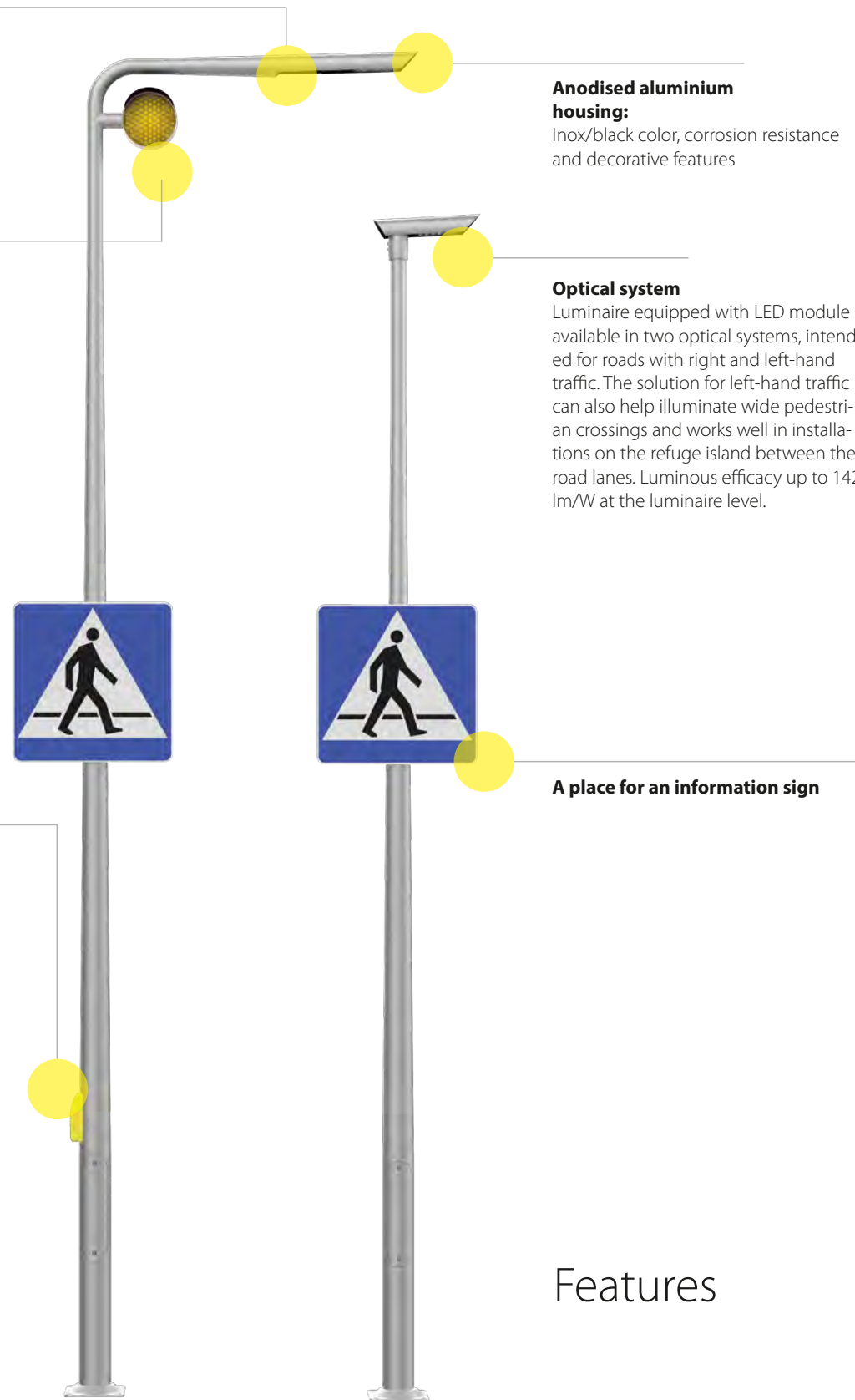
Overvoltage protection

Increases luminaire resistance against electrical discharges up to 15 surges with 10 kV voltage

The option of mounting flash signal lamp



The option of mounting button that activates a signal lamp and temporarily increases the power of the signal at the pedestrian crossings



Anodised aluminium housing:

Inox/black color, corrosion resistance and decorative features

Optical system

Luminaire equipped with LED module available in two optical systems, intended for roads with right and left-hand traffic. The solution for left-hand traffic can also help illuminate wide pedestrian crossings and works well in installations on the refuge island between the road lanes. Luminous efficacy up to 142 lm/W at the luminaire level.

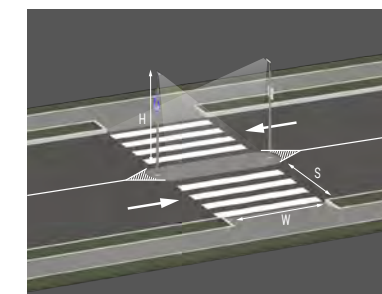
A place for an information sign

Features

Megvilágítási példák



Luminaire: ISKRA LED P ALFA 36 W
Code: 2133032/.../L
Column: SAL-5 B60
Code: 42127/C...
Road sign D-6

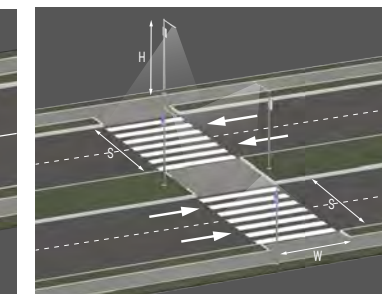


Single carriageway with two lanes

Parameters:
H - Height: 5m
W - walkway width: 4 m
S - road width: 3m



Luminaire: ISKRA LED P 36 W
Code: 2132032/.../P, 2132032/.../L
Column: SAL-50G
Code: 42341/C...
Extension arm: WR-10P/1/1,5/0 ZP
Code: 4722519/C45/C35
Road sign D-6

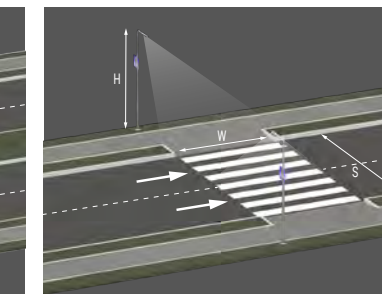


Dual carriageway with two lanes

Parameters:
H - Height: 5m
W - walkway width: 4 m
S - road width: 7m

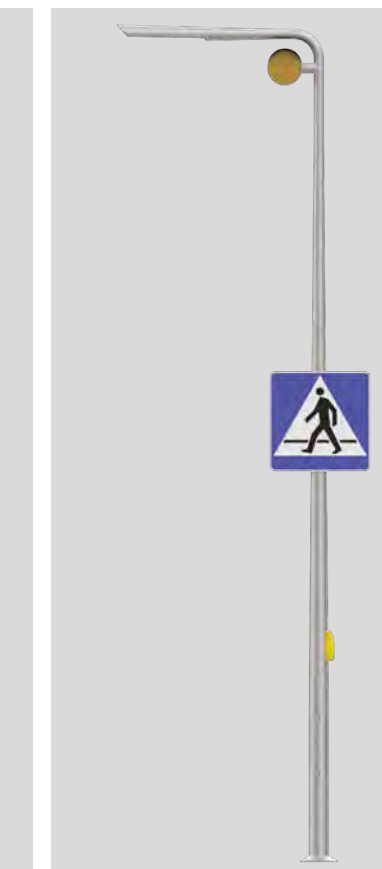


Luminaire: ISKRA LED P 36 W
Code: 2132032/.../P, 2132032/.../L
Column: SAL DL-10
Code: 42999/C45/C35
Road sign D-6

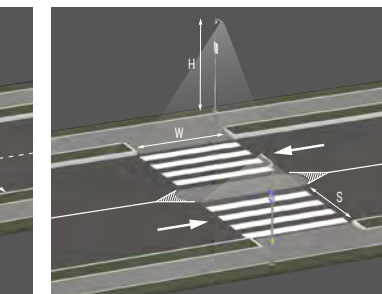


Single carriageway with two lanes

Parameters:
H - Height: 5m
W - walkway width: 4 m
S - road width: 7m



Zestaw: SAL DL-10 OZN LED 36 W
Code: 2199932/.../P
Road sign D-6



Single carriageway with two lanes

Parameters:
H - Height: 5m
W - walkway width: 4 m
S - road width: 3m

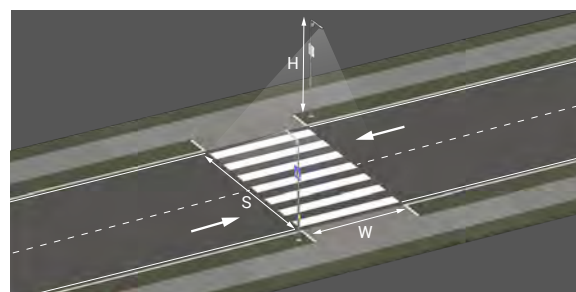
ISKRA LED P / ISKRA LED P PROG

Gyalogos átkelőkhöz



Application: pedestrian crossings
Installation: on extension arms with 60x90 mm ending
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium alloy
Colour: inox / black
Optical system: PMMA optics
Number of LEDs: 12
Operating temperature range: from -40°C to +55°C (for 36 W), from -40°C to +40°C (for 45 W)
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,005 m³
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95
 Luminaire ISKRA LED P optionally has the possibility, to connect to an external control system via analog signal 1-10 V.
 Luminaire ISKRA LED P PROG has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).

Lighting example

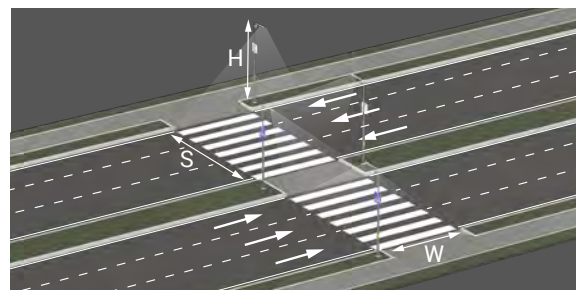


Single carriageway two-way traffic

ISKRA LED P + SAL DL10

Parameters:

H - Height: 5m
 W - walkway width: 4 m
 S - road width: 7m

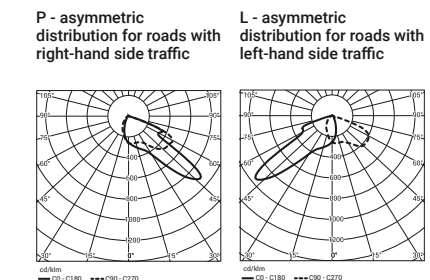
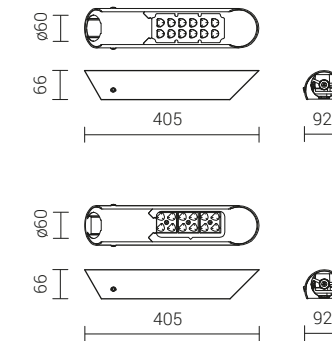


Dual carriageway with three lanes

ISKRA LED P + SAL DL10

Parameters:

H - Height: 6m
 W - walkway width: 4m
 S - road width: 10,5m



Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
2132032/1/...	ISKRA LED P 36	36 W	39,5 W	960 mA	2 700 K	4 800 lm	4 400 lm	111 lm/W	2,2 kg
2132032/3/...	ISKRA LED P 36	36 W	39,5 W	960 mA	3 500 K	5 000 lm	4 650 lm	118 lm/W	2,2 kg
2132032/4/...	ISKRA LED P 36	36 W	39,5 W	960 mA	4 000 K	5 900 lm	5 500 lm	139 lm/W	2,2 kg
2132032/6/...	ISKRA LED P 36	36 W	39,5 W	960 mA	5 000 K	5 900 lm	5 500 lm	139 lm/W	2,2 kg
2132045/1/...	ISKRA LED P 45	45 W	52 W	1250 mA	2 700 K	5 850 lm	5 350 lm	103 lm/W	2,2 kg
2132045/3/...	ISKRA LED P 45	45 W	52 W	1250 mA	3 500 K	6 100 lm	5 650 lm	109 lm/W	2,2 kg
2132045/4/...	ISKRA LED P 45	45 W	52 W	1250 mA	4 000 K	7 200 lm	6 700 lm	129 lm/W	2,2 kg
2132045/6/...	ISKRA LED P 45	45 W	52 W	1250 mA	5 000 K	7 200 lm	6 700 lm	129 lm/W	2,2 kg
21320132/1/...	ISKRA LED P 36 PROG	36 W	40 W	1 000 mA	2 700 K	4 900 lm	4 500 lm	113 lm/W	2,1 kg
21320132/3/...	ISKRA LED P 36 PROG	36 W	40 W	1 000 mA	3 500 K	5 100 lm	4 750 lm	119 lm/W	2,1 kg
21320132/4/...	ISKRA LED P 36 PROG	36 W	40 W	1 000 mA	4 000 K	6 000 lm	5 600 lm	140 lm/W	2,1 kg
21320132/6/...	ISKRA LED P 36 PROG	36 W	40 W	1 000 mA	5 000 K	6 000 lm	5 600 lm	140 lm/W	2,1 kg

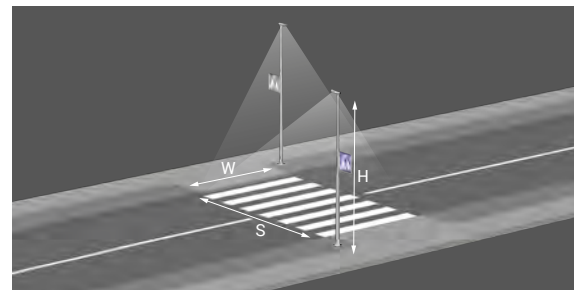
/... Symbol of selected optical system



LED lámpatestek

ISKRA LED P ALFA / ISKRA LED P ALFA PROG

Gyalogos átkelőkhöz



Lighting for pedestrian crossings 7x4 m
– single carriageway two-way traffic

ISKRA LED P 36 W ALFA

Parameters:

H – luminaire mounting height: 5 m
W – walkway width – 4 m
S – road width – 7 m

Application: pedestrian crossings

Installation: pole top mounted with $\varnothing 60 \times 50$ mm ending

Ingress protection: IP 66 for the optical part and the driver

Material: anodised aluminium alloy

Colour: inox / black

Optical system: PMMA optics

Number of LEDs: 12

Operating temperature range: from -40°C to $+55^{\circ}\text{C}$ (for 36 W), from -40°C to $+40^{\circ}\text{C}$ (for 45 W)

Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

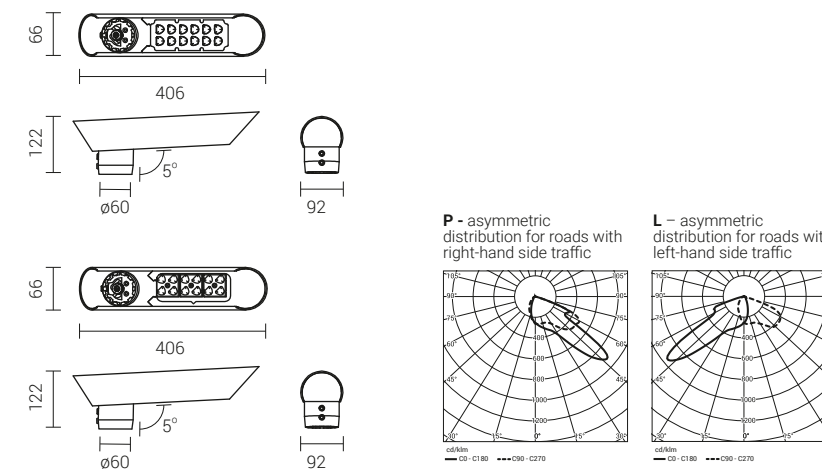
Unit volume: 0,01 m³

Input voltage frequency: 50/60 Hz

Power factor: $\geq 0,95$

Luminaire ISKRA LED P ALFA optionally has the possibility, to connect to an external control system via analog signal 1-10 V.

Luminaire ISKRA LED P PROG ALFA has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).

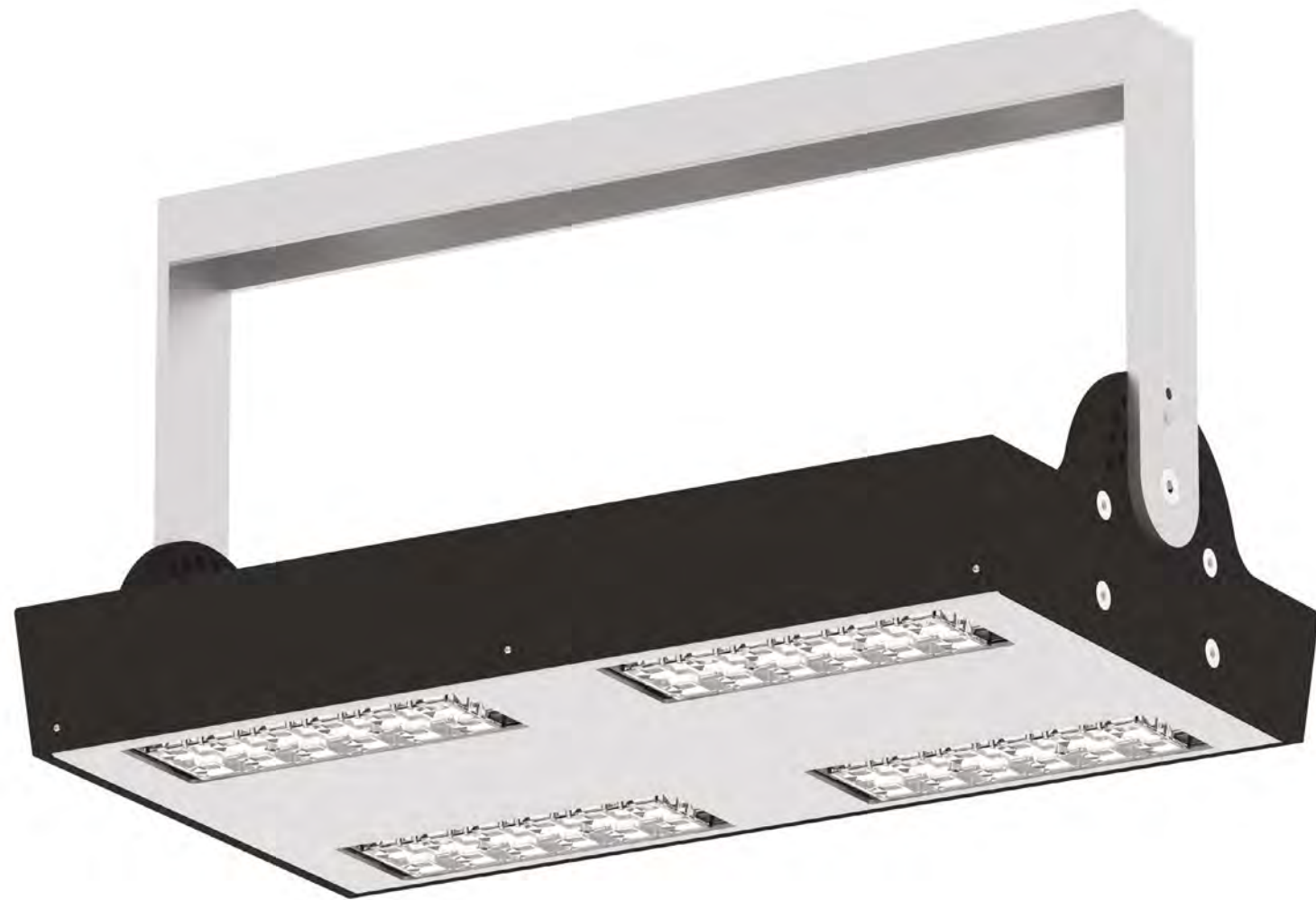


Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
2133032/1/...	ISKRA LED P 36 ALFA	36 W	39,5 W	960 mA	2 700 K	4 800 lm	4 400 lm	111 lm/W	2,6 kg
2133032/3/...	ISKRA LED P 36 ALFA	36 W	39,5 W	960 mA	3 500 K	5 000 lm	4 650 lm	118 lm/W	2,6 kg
2133032/4/...	ISKRA LED P 36 ALFA	36 W	39,5 W	960 mA	4 000 K	5 900 lm	5 500 lm	139 lm/W	2,6 kg
2133032/6/...	ISKRA LED P 36 ALFA	36 W	39,5 W	960 mA	5 000 K	5 900 lm	5 500 lm	139 lm/W	2,6 kg
2133045/1/...	ISKRA LED P 45 ALFA	45 W	52 W	1250 mA	2 700 K	5 850 lm	5 350 lm	103 lm/W	2,6 kg
2133045/3/...	ISKRA LED P 45 ALFA	45 W	52 W	1250 mA	3 500 K	6 100 lm	5 650 lm	109 lm/W	2,6 kg
2133045/4/...	ISKRA LED P 45 ALFA	45 W	52 W	1250 mA	4 000 K	7 200 lm	6 700 lm	129 lm/W	2,6 kg
2133045/6/...	ISKRA LED P 45 ALFA	45 W	52 W	1250 mA	5 000 K	7 200 lm	6 700 lm	129 lm/W	2,6 kg
21330132/1/...	ISKRA LED P 36 ALFA PROG	36 W	40 W	1 000 mA	2 700 K	4 900 lm	4 500 lm	113 lm/W	2,5 kg
21330132/3/...	ISKRA LED P 36 ALFA PROG	36 W	40 W	1 000 mA	3 500 K	5 100 lm	4 750 lm	119 lm/W	2,5 kg
21330132/4/...	ISKRA LED P 36 ALFA PROG	36 W	40 W	1 000 mA	4 000 K	6 000 lm	5 600 lm	140 lm/W	2,5 kg
21330132/6/...	ISKRA LED P 36 ALFA PROG	36 W	40 W	1 000 mA	5 000 K	6 000 lm	5 600 lm	140 lm/W	2,5 kg

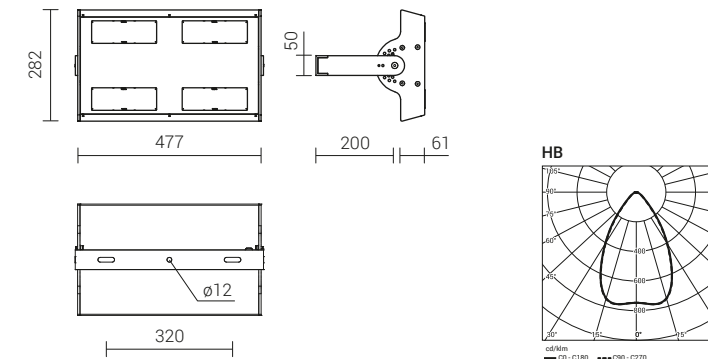
/... Symbol of selected optical system



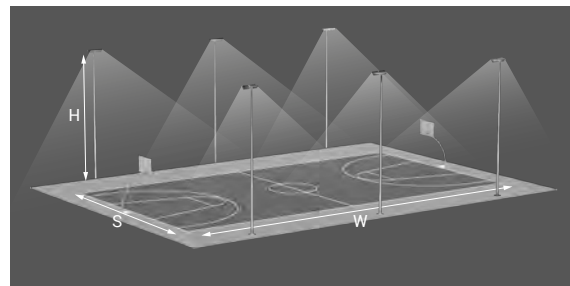
ARTEMIS LED



Application: industrial halls, sport facilities, parking lots
Installation: suspended or on WN type extension arms
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium alloy
Colour: inox / black
Optical system: PMMA optics , interchangeable LED module
Number of LEDs: 48
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,022 m³
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95
 Luminaire ARTEMIS LED LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



Lighting example



Court
ARTEMIS LED 144 W
Parameters:
 H – luminaire mounting height: 12 m
 W – court length: – 28 m
 S – court width: 15 m
 Number of luminaires – 12
Average illuminance: Eav – 200lx

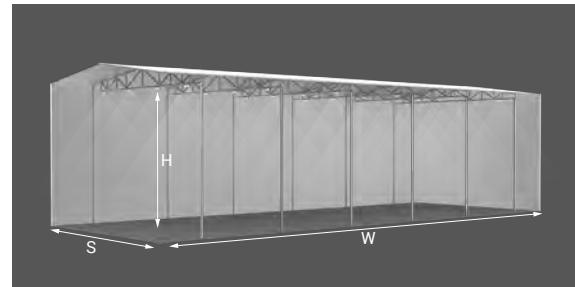


Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
229041/1	ARTEMIS LED 144	144 W	154 W	1 000 mA	2 700 K	19 050 lm	17 150 lm	111 lm/W	8 kg
229041/3	ARTEMIS LED 144	144 W	154 W	1 000 mA	3 500 K	19 850 lm	17 850 lm	116 lm/W	8 kg
229041/4	ARTEMIS LED 144	144 W	154 W	1 000 mA	4 000 K	23 000 lm	20 700 lm	134 lm/W	8 kg
229041/6	ARTEMIS LED 144	144 W	154 W	1 000 mA	5 000 K	23 000 lm	20 700 lm	134 lm/W	8 kg



ISKRA LED LB

Lighting example



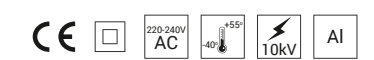
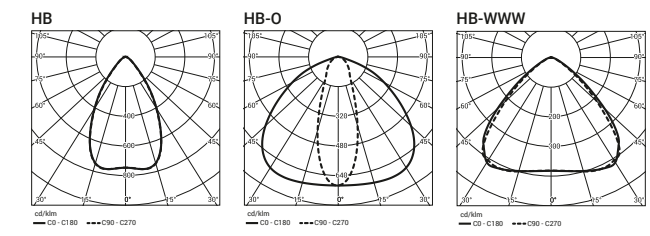
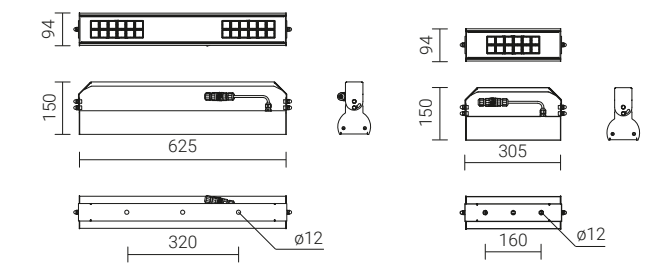
Industrial hall
ISKRA LED LB 80 W

Parameters:
H – luminaire mounting height: 10 m
W – hall length: 40 m
S – hall width: 15 m
Number of luminaires: 24

Average illuminance: Eav – 300lx



Application: industrial halls, tunnels and underground passages
Installation: suspended or on an extension arms WN-1, WN-2 smoothly adjustable mounting angle in the range of 0-45°
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium alloy
Colour: inox / black
Optical system: PMMA optics
Number of LEDs: 12 (for 36 W) 24 (for 80 W)
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,01 m³ (for 36 W), 0,02 m³ (for 80 W)
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95
 Luminaire ISKRA LED LB optionally has the possibility, to connect to an external control system via analog signal 1-10 V.



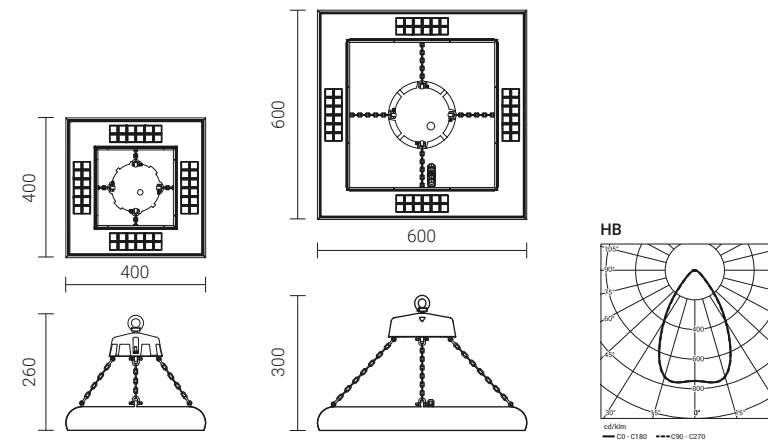
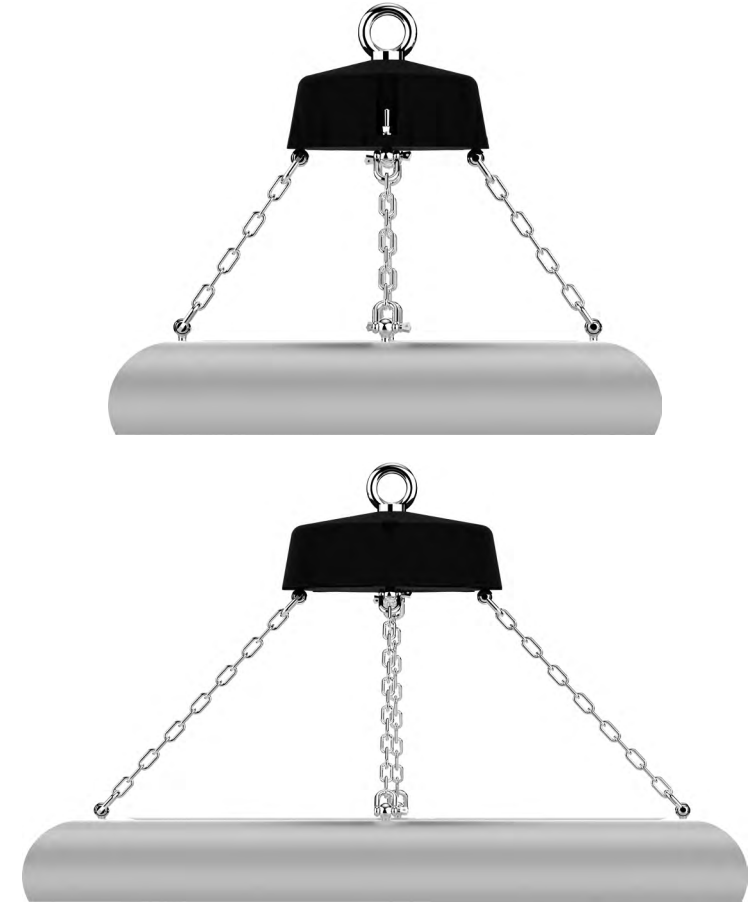
Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
230632/1/...	ISKRA LED LB 36	36 W	39,5 W	960 mA	2 700 K	4 800 lm	4 400 lm	111 lm/W	2,5 kg
230632/3/...	ISKRA LED LB 36	36 W	39,5 W	960 mA	3 500 K	5 000 lm	4 650 lm	118 lm/W	2,5 kg
230632/4/...	ISKRA LED LB 36	36 W	39,5 W	960 mA	4 000 K	5 900 lm	5 500 lm	139 lm/W	2,5 kg
230632/6/...	ISKRA LED LB 36	36 W	39,5 W	960 mA	5 000 K	5 900 lm	5 500 lm	139 lm/W	2,5 kg
230752/1/...	ISKRA LED LB 80	72 W	80 W	1075 mA	2 700 K	10 150 lm	9 000 lm	113 lm/W	3,8 kg
230752/3/...	ISKRA LED LB 80	72 W	80 W	1075 mA	3 500 K	10 650 lm	9 450 lm	118 lm/W	3,8 kg
230752/4/...	ISKRA LED LB 80	72 W	80 W	1075 mA	4 000 K	12 500 lm	11 100 lm	139 lm/W	3,8 kg
230752/6/...	ISKRA LED LB 80	72 W	80 W	1075 mA	5 000 K	12 500 lm	11 100 lm	139 lm/W	3,8 kg

/... Symbol of selected optical system

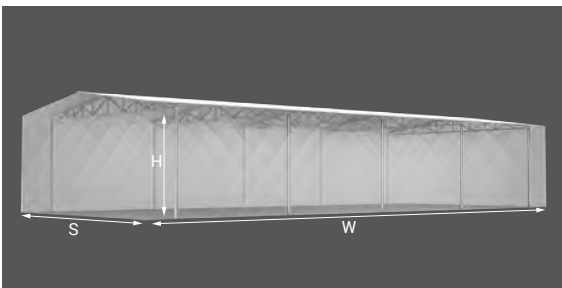
ISKRA LED HB



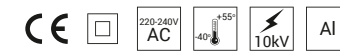
Application: industrial halls
Installation: suspended
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium alloy
Colour: inox / black
Optical system: PMMA optics
Number of LEDs: 48
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,02 m³ (for 120 W); 0,03 m³ (for 180 W)
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95
 Luminaire ISKRA LED HB optionally has the possibility, to connect to an external control system via analog signal 1-10 V.



Lighting example



Industrial hall
 ISKRA LED LB 180 W
Parameters:
 H – luminaire mounting height: 12 m
 W – hall length: 80 m
 S – hall width: 30 m
 number of luminaires: 60
Average illuminance: Eav – 500lx



Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Luminaire net weight
231039/1	ISKRA LED HB 120	120 W	135 W	825 mA	2 700 K	16 300 lm	14 650 lm	109 lm/W	7,7 kg
231039/3	ISKRA LED HB 120	120 W	135 W	825 mA	3 500 K	17 000 lm	15 300 lm	113 lm/W	7,7 kg
231039/4	ISKRA LED HB 120	120 W	135 W	825 mA	4 000 K	20 100 lm	18 100 lm	134 lm/W	7,7 kg
231039/6	ISKRA LED HB 120	120 W	135 W	825 mA	5 000 K	20 100 lm	18 100 lm	134 lm/W	7,7 kg
231144/1	ISKRA LED HB 180	180 W	200 W	1250 mA	2 700 K	22 500 lm	20 250 lm	101 lm/W	15 kg
231144/3	ISKRA LED HB 180	180 W	200 W	1250 mA	3 500 K	23 450 lm	21 100 lm	106 lm/W	15 kg
231144/4	ISKRA LED HB 180	180 W	200 W	1250 mA	4 000 K	27 750 lm	24 950 lm	125 lm/W	15 kg
231144/6	ISKRA LED HB 180	180 W	200 W	1250 mA	5 000 K	27 750 lm	24 950 lm	125 lm/W	15 kg

/... Symbol of selected optical system



Aba-Szer Féműtor Kft.

ROSA

Közvilágítási garnitúrák



High5vie Office Complex
Cracow, Poland



Energetic Garden of Experiences
Kielce, Poland





Dorzecze Legnickiej residential area
Wroclaw, Poland



District Court in Nowy Sącz
Nowy Sącz, Poland





Hivatalház
Cracow, Poland



Köztér, Zawisza Czary
Katowice, Lengyelország



Orlen Aréna
Płock, Poland

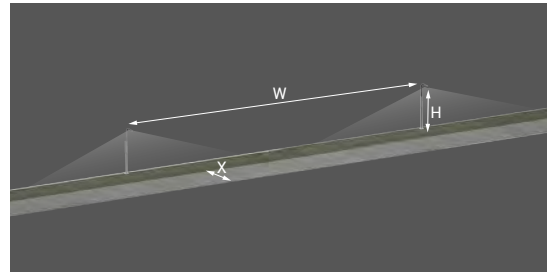


Masovian Countryside Múzeum,
Sierpc, Lengyelország



LED garnitúra
SNAKE I LED

Lighting example



Sidewalk

SNAKE I LED 12 W, 3L optics

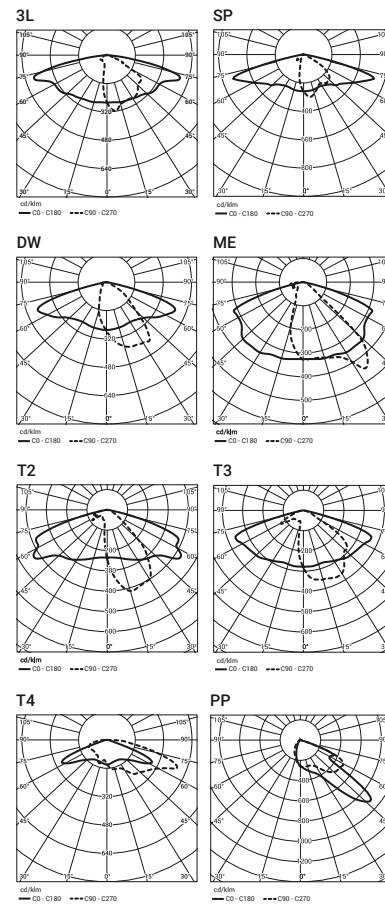
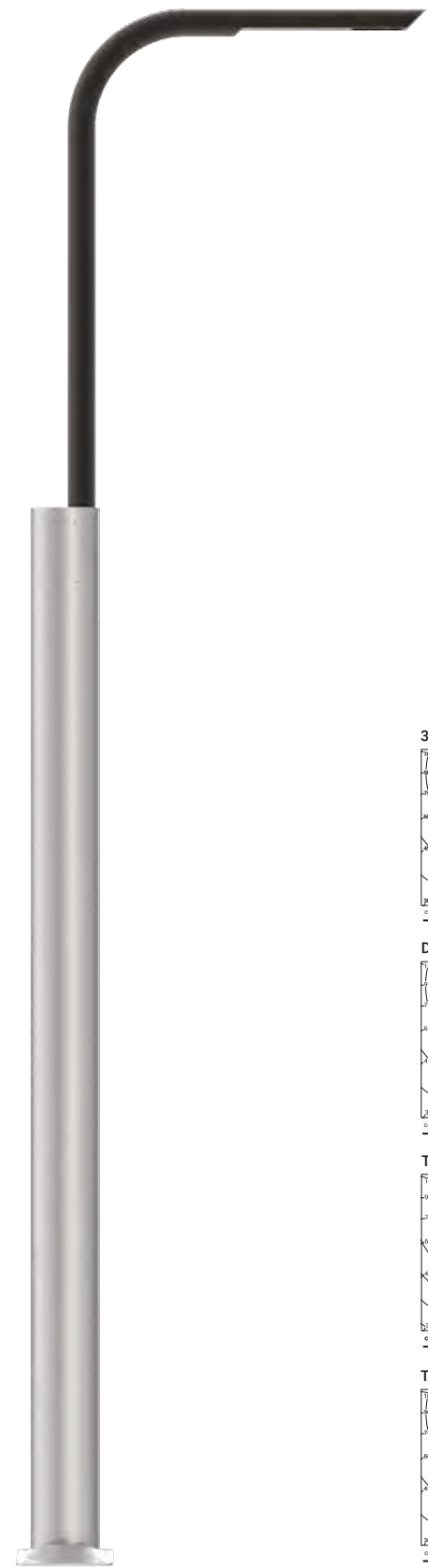
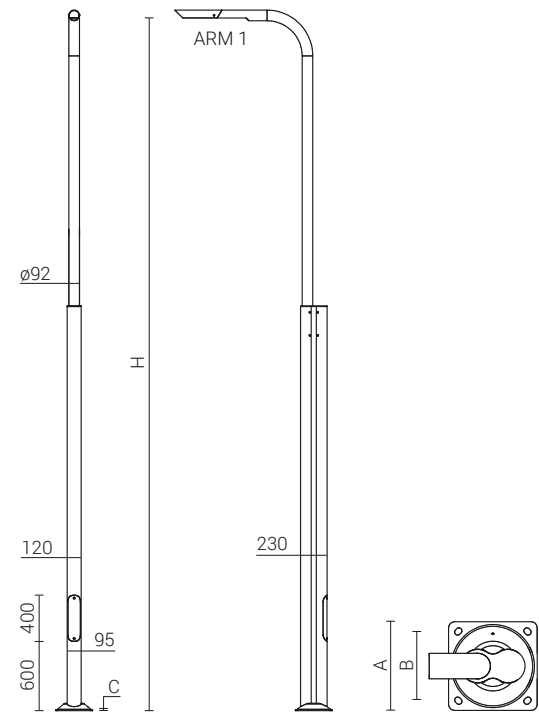
Parameters:

H - lighting sets height - 4 m

W - pole spacing - 36 m

X - sidewalk width - 4 m

Lighting class : P5



Application: pedestrian walkways, urban roads, residential streets, parks, office building surroundings, parking

Ingress protection: IP 66 for the optical part and the driver

Material: anodised aluminium alloy

Colour: inox / black

Optical system: PMMA optics

Number of LEDs: 12

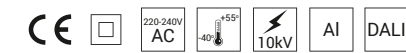
Expected useful lifetime: L90F10 - 50 000 h, L80F20 - 100 000 h

CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Input voltage frequency: 50/60 Hz

Power factor: ≥0.95

Lighting set SNAKE I LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



Name	Height H	Base dimension A / B / C	Concrete footing / reinforcement basket	Footing code	Fasteners	Total net weight	Unit volume
SNAKE I LED	4,0m - 40	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	39kg	0,55m ³
SNAKE I LED	4,5m - 45	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	45kg	0,60m ³
SNAKE I LED	5,0m - 50	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	47kg	0,67m ³
SNAKE I LED	5,5m - 55	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	52kg	0,73m ³
SNAKE I LED	6,0m - 60	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	56kg	0,79m ³
SNAKE I LED	6,5m - 65	400 / 300 / 10	B-70, B-71 / Z-70, Z71	311170, 311171 / 311207, 311271	4012	59kg	0,81m ³
SNAKE I LED	7,0m - 70	400 / 300 / 10	B-70, B-71 / Z-70, Z71	311170, 311171 / 311207, 311271	4012	64kg	0,90m ³
SNAKE I LED	7,5m - 75	400 / 300 / 12	B-70, B-71 / Z-70, Z71	311170, 311171 / 311207, 311271	4012	68kg	0,96m ³
SNAKE I LED	8,0m - 80	400 / 300 / 12	B-70, B-71 / Z-70, Z71	311170, 311171 / 311207, 311271	4012	70kg	1,02m ³

Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy
27/1/...	SNAKE I LED 12	12 W	14 W	350 mA	2 700 K	1 850 lm	1 700 lm	121 lm/W
27/3/...	SNAKE I LED 12	12 W	14 W	350 mA	3 500 K	1 900 lm	1 750 lm	125 lm/W
27/4/...	SNAKE I LED 12	12 W	14 W	350 mA	4 000 K	2 300 lm	2 100 lm	150 lm/W
27/6/...	SNAKE I LED 12	12 W	14 W	350 mA	5 000 K	2 300 lm	2 100 lm	150 lm/W
30/1/...	SNAKE I LED 24	24 W	28 W	700 mA	2 700 K	3 600 lm	3 350 lm	120 lm/W
30/3/...	SNAKE I LED 24	24 W	28 W	700 mA	3 500 K	3 700 lm	3 500 lm	125 lm/W
30/4/...	SNAKE I LED 24	24 W	28 W	700 mA	4 000 K	4 350 lm	4 050 lm	145 lm/W
30/6/...	SNAKE I LED 24	24 W	28 W	700 mA	5 000 K	4 350 lm	4 050 lm	145 lm/W
32/1/...	SNAKE I LED 36	36 W	40 W	1 000 mA	2 700 K	4 900 lm	4 500 lm	113 lm/W
32/3/...	SNAKE I LED 36	36 W	40 W	1 000 mA	3 500 K	5 100 lm	4 750 lm	119 lm/W
32/4/...	SNAKE I LED 36	36 W	40 W	1 000 mA	4 000 K	6 000 lm	5 600 lm	140 lm/W
32/6/...	SNAKE I LED 36	36 W	40 W	1 000 mA	5 000 K	6 000 lm	5 600 lm	140 lm/W

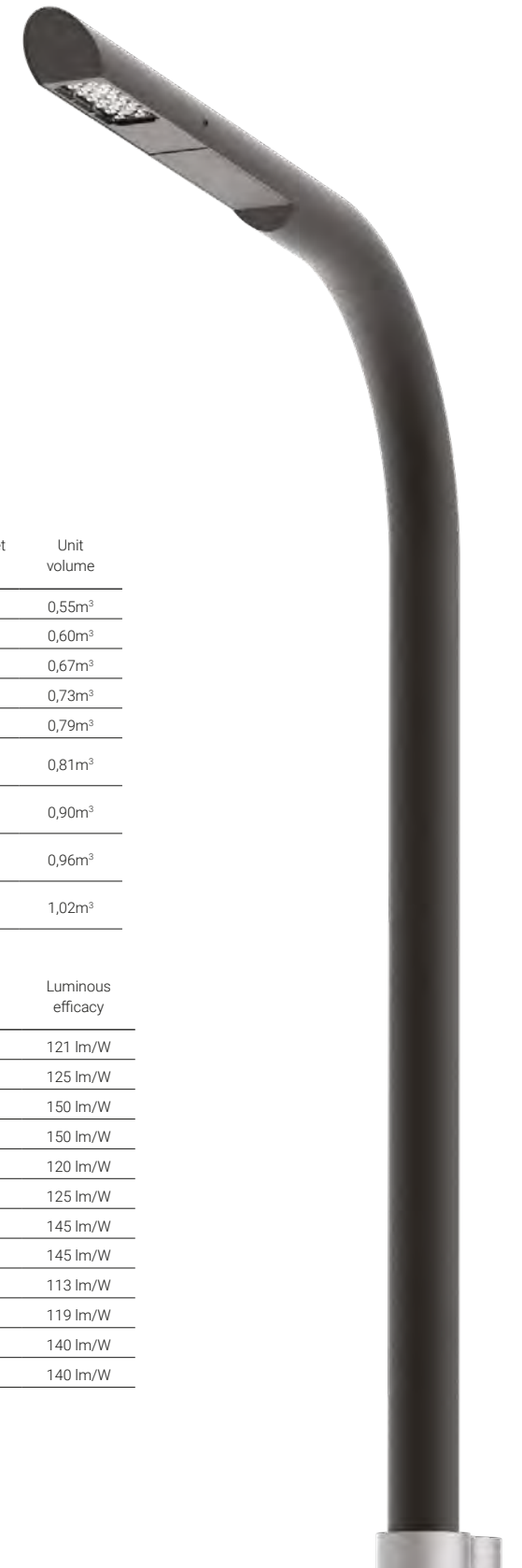
/... Symbol of selected optical system
 3L optics available for 12W luminaire power

Order code example

2160100/32/3/T3

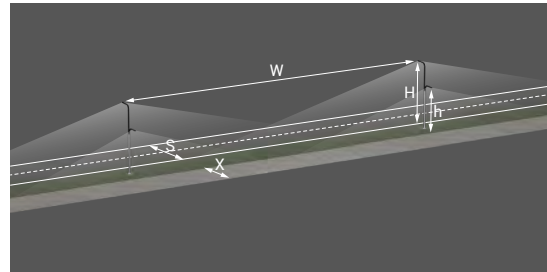
Arm height #1 - H

Power of the arm #1



LED garnitúra
SNAKE II LED

Lighting example



Single carriageway with two lanes + sidewalk

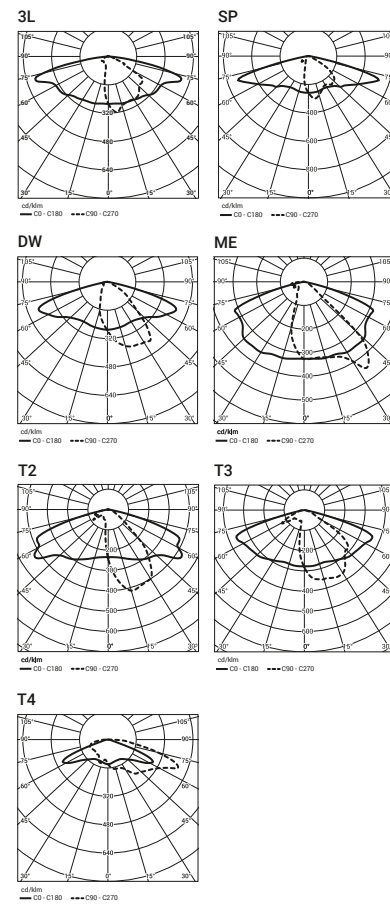
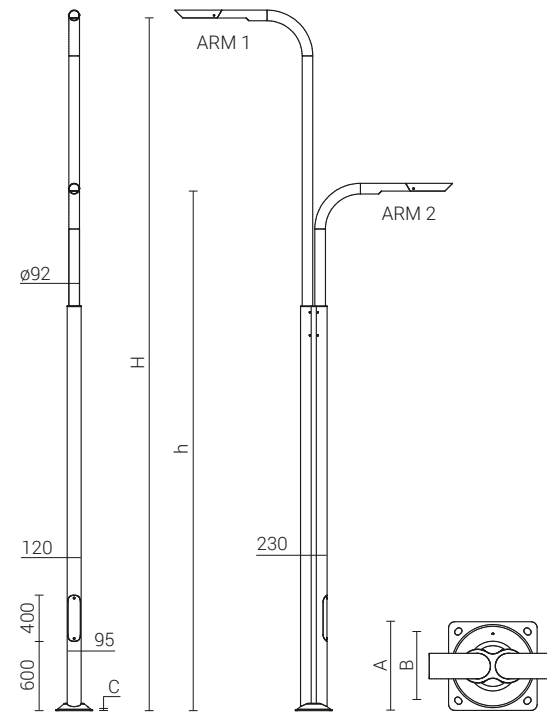
SNAKE II LED 36 W, DW optics / 24 W, SP optics

Parameters:

- H - lighting sets height, arm #1: 6 m
- h - arm height #2: 5 m
- W - pole spacing - 30 m
- X - sidewalk width - 4 m
- S 2 - road width - 6 m

Lighting class:

- C4 - Single carriageway
- P2 - Sidewalk



Application: pedestrian walkways, urban roads, residential streets, parks, office building surroundings, parking

Ingress protection: IP 66 for the optical part and the driver

Material: anodised aluminium alloy

Colour: inox / black

Optical system: PMMA optics

Number of LEDs: 2x12

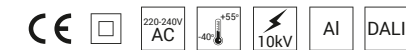
Expected useful lifetime: L90F10 - 50 000 h, L80F20 - 100 000 h

CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Input voltage frequency: 50/60 Hz

Power factor: ≥0.95

Lighting set SNAKE II LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



Name	Height H	Base dimension A / B / C	Concrete footing / reinforcement basket	Footing code	Fasteners	Total net weight	Unit volume
SNAKE II LED	4,0m - 40	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	42kg	0,70m³
SNAKE II LED	4,5m - 45	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	47kg	0,76m³
SNAKE II LED	5,0m - 50	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	52kg	0,81m³
SNAKE II LED	5,5m - 55	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	57kg	0,87m³
SNAKE II LED	6,0m - 60	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	63kg	0,94m³
SNAKE II LED	6,5m - 65	400 / 300 / 10	B-70, B-71 / Z-70, Z71	311170, 311171 / 311207, 311271	4012	67kg	1,01m³
SNAKE II LED	7,0m - 70	400 / 300 / 10	B-70, B-71 / Z-70, Z71	311170, 311171 / 311207, 311271	4012	72kg	1,06m³
SNAKE II LED	7,5m - 75	400 / 300 / 12	B-70, B-71 / Z-70, Z71	311170, 311171 / 311207, 311271	4012	77kg	1,12m³
SNAKE II LED	8,0m - 80	400 / 300 / 12	B-70, B-71 / Z-70, Z71	311170, 311171 / 311207, 311271	4012	82kg	1,20m³

Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy
27/1/...	SNAKE II LED 12	12 W	14 W	350 mA	2 700 K	1 850 lm	1 700 lm	121 lm/W
27/3/...	SNAKE II LED 12	12 W	14 W	350 mA	3 500 K	1 900 lm	1 750 lm	125 lm/W
27/4/...	SNAKE II LED 12	12 W	14 W	350 mA	4 000 K	2 300 lm	2 100 lm	150 lm/W
27/6/...	SNAKE II LED 12	12 W	14 W	350 mA	5 000 K	2 300 lm	2 100 lm	150 lm/W
30/1/...	SNAKE II LED 24	24 W	28 W	700 mA	2 700 K	3 600 lm	3 350 lm	120 lm/W
30/3/...	SNAKE II LED 24	24 W	28 W	700 mA	3 500 K	3 700 lm	3 500 lm	125 lm/W
30/4/...	SNAKE II LED 24	24 W	28 W	700 mA	4 000 K	4 350 lm	4 050 lm	145 lm/W
30/6/...	SNAKE II LED 24	24 W	28 W	700 mA	5 000 K	4 350 lm	4 050 lm	145 lm/W
32/1/...	SNAKE II LED 36	36 W	40 W	1 000 mA	2 700 K	4 900 lm	4 500 lm	113 lm/W
32/3/...	SNAKE II LED 36	36 W	40 W	1 000 mA	3 500 K	5 100 lm	4 750 lm	119 lm/W
32/4/...	SNAKE II LED 36	36 W	40 W	1 000 mA	4 000 K	6 000 lm	5 600 lm	140 lm/W
32/6/...	SNAKE II LED 36	36 W	40 W	1 000 mA	5 000 K	6 000 lm	5 600 lm	140 lm/W

/... Symbol of selected optical system
 3L optics available for 12W luminaire power

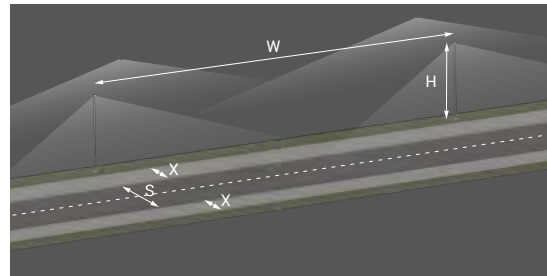
Order code example

2160140/32/3/T3/30/4/T2

Arm height #1 - H	Arm height #2 - h	Power of the arm #1	Power of the arm #2
32	3	T3	30/4/T2

LED garnitúra
BEAM I LED

Lighting example

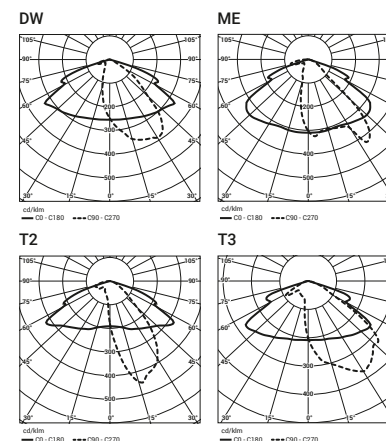
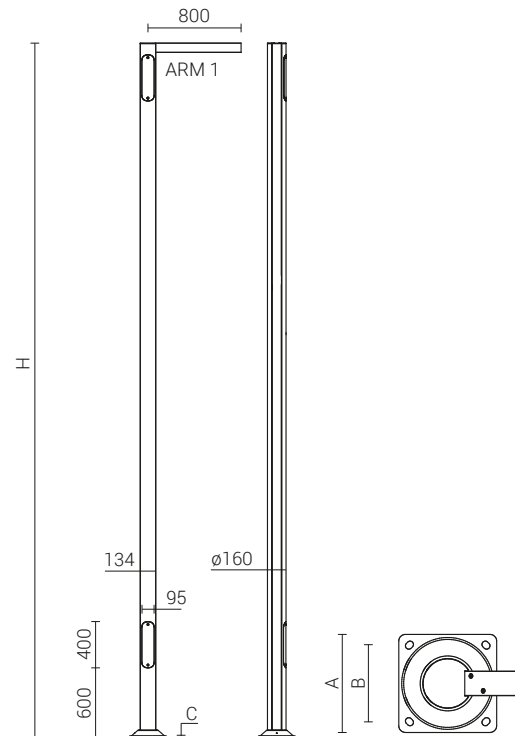


Single carriageway with two lanes + sidewalk

BEAM I LED 60 W, T3 optics

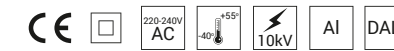
Parameters:
H - lighting sets height: 7 m
W - pole spacing - 30 m
X - sidewalk width - 3 m
S - road width - 7 m

Lighting class:
M4 - Single carriageway
P3 - Sidewalk



Application: residential streets, office building surroundings, parks, pedestrian walkways, parking, city roads
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium alloy
Colour: inox / grey
Optical system: PMMA optics, interchangeable LED module
Number of LEDs: 12 for 24 W, 36 W; 24 for 48 W, 60 W, 72 W
Expected useful lifetime: L90F10 - 50 000 h, L80F20 - 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Input voltage frequency: 50/60 Hz
Power factor: ≥0.95

Lighting set BEAM I LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



Name	Height H	Base dimension A / B / C	Concrete footing / reinforcement basket	Footing code	Fasteners	Total net weight	Unit volume
BEAM I LED	4,0m - 40	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	27,0kg	0,50m³
BEAM I LED	5,0m - 50	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	32,0kg	0,60m³
BEAM I LED	6,0m - 60	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	38,0kg	0,80m³
BEAM I LED	7,0m - 70	400 / 300 / 10	B-70, B-71 / Z-70, Z-71	311170, 311171 / 311207, 311271	4012	45,5kg	1,10m³
BEAM I LED	8,0m - 80	400 / 300 / 12	B-70, B-71 / Z-70, Z-71	311170, 311171 / 311207, 311271	4012	54,0kg	1,30m³

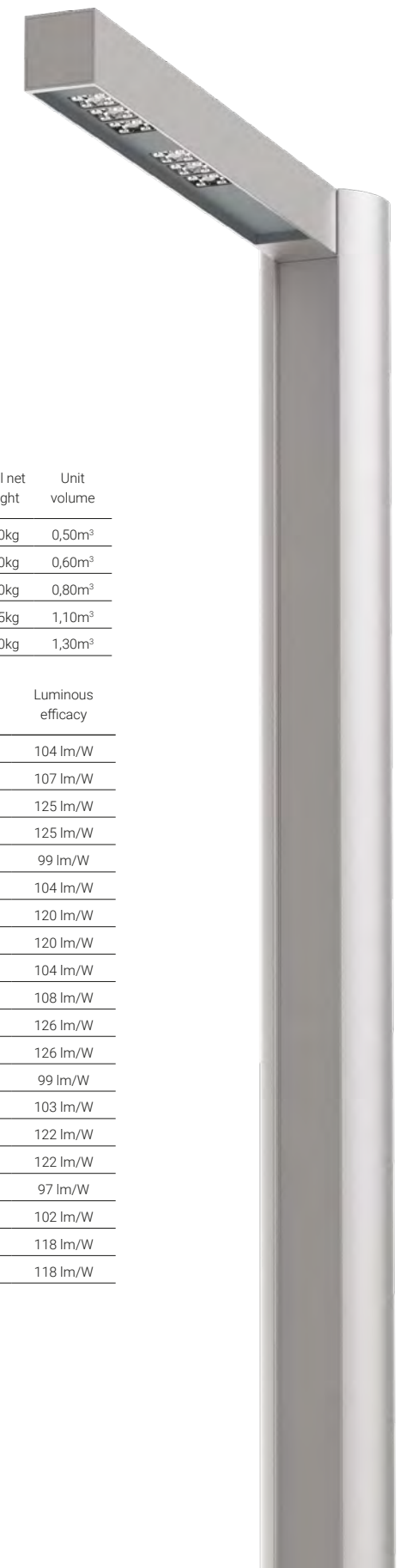
Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy
30/1/...	BEAM I LED 24	24 W	28 W	700 mA	2 700 K	3 600 lm	2 900 lm	104 lm/W
30/3/...	BEAM I LED 24	24 W	28 W	700 mA	3 500 K	3 700 lm	3 000 lm	107 lm/W
30/4/...	BEAM I LED 24	24 W	28 W	700 mA	4 000 K	4 350 lm	3 500 lm	125 lm/W
30/6/...	BEAM I LED 24	24 W	28 W	700 mA	5 000 K	4 350 lm	3 500 lm	125 lm/W
32/1/...	BEAM I LED 36	36 W	40 W	1 000 mA	2 700 K	4 900 lm	3 950 lm	99 lm/W
32/3/...	BEAM I LED 36	36 W	40 W	1 000 mA	3 500 K	5 100 lm	4 150 lm	104 lm/W
32/4/...	BEAM I LED 36	36 W	40 W	1 000 mA	4 000 K	6 000 lm	4 800 lm	120 lm/W
32/6/...	BEAM I LED 36	36 W	40 W	1 000 mA	5 000 K	6 000 lm	4 800 lm	120 lm/W
33/1/...	BEAM I LED 48	48 W	55 W	700 mA	2 700 K	7 050 lm	5 700 lm	104 lm/W
33/3/...	BEAM I LED 48	48 W	55 W	700 mA	3 500 K	7 350 lm	5 950 lm	108 lm/W
33/4/...	BEAM I LED 48	48 W	55 W	700 mA	4 000 K	8 650 lm	6 950 lm	126 lm/W
33/6/...	BEAM I LED 48	48 W	55 W	700 mA	5 000 K	8 650 lm	6 950 lm	126 lm/W
34/1/...	BEAM I LED 60	60 W	67 W	830 mA	2 700 K	8 150 lm	6 600 lm	99 lm/W
34/3/...	BEAM I LED 60	60 W	67 W	830 mA	3 500 K	8 500 lm	6 900 lm	103 lm/W
34/4/...	BEAM I LED 60	60 W	67 W	830 mA	4 000 K	10 050 lm	8 150 lm	122 lm/W
34/6/...	BEAM I LED 60	60 W	67 W	830 mA	5 000 K	10 050 lm	8 150 lm	122 lm/W
35/1/...	BEAM I LED 72	72 W	79 W	1 000 mA	2 700 K	9 450 lm	7 650 lm	97 lm/W
35/3/...	BEAM I LED 72	72 W	79 W	1 000 mA	3 500 K	9 900 lm	8 050 lm	102 lm/W
35/4/...	BEAM I LED 72	72 W	79 W	1 000 mA	4 000 K	11 650 lm	9 350 lm	118 lm/W
35/6/...	BEAM I LED 72	72 W	79 W	1 000 mA	5 000 K	11 650 lm	9 350 lm	118 lm/W

/... Symbol of selected optical system

Order code example

2160000/32/3/T3

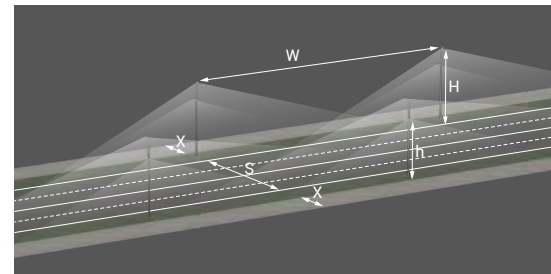
Arm height #1 - H Power of the arm #1



LED garnitúra

BEAM II LED

Lighting example



Single carriageway with four lanes + sidewalk

BEAM II LED 48 W, T3 optics / 24 W, T2 optics

Parameters:

H - lighting sets height, arm #1: 6 m

h - arm height #2: 5 m

W - pole spacing - 30 m

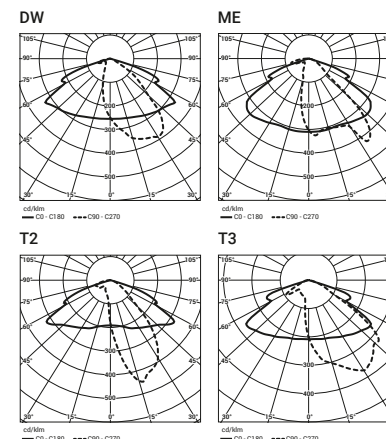
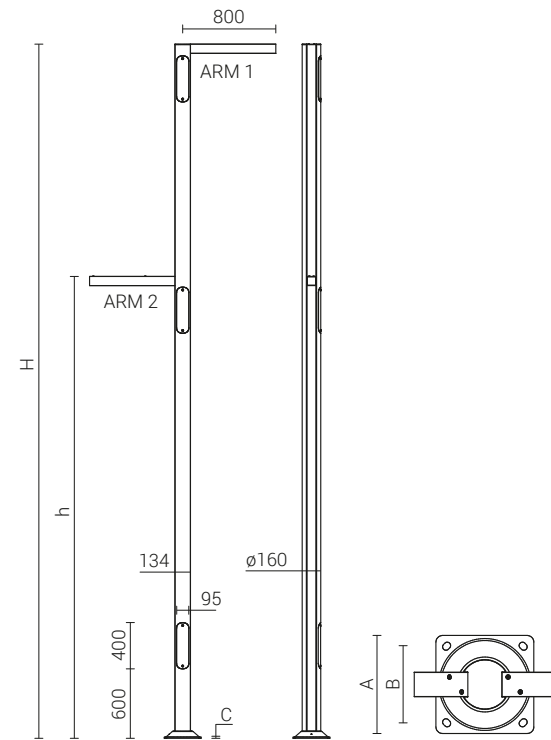
X - sidewalk width - 3 m

S - road width - 14 m

Lighting class:

C3 - Single carriageway

P2 - Sidewalk



Application: residential streets, office building surroundings, parks,

pedestrian walkways, parking, city roads

Ingress protection: IP 66 for the optical part and the driver

Material: anodised aluminium alloy

Colour: inox / grey

Optical system: PMMA optics, interchangeable LED module

Number of LEDs: 2x12 for 24 W, 36 W; 2x24 for 48 W, 60 W, 72 W

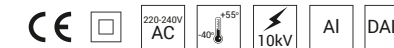
Expected useful lifetime: L90F10 - 50 000 h, L80F20 - 100 000 h

CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Input voltage frequency: 50/60 Hz

Power factor: ≥0.95

Lighting set BEAM II LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



Name	Height H	Base dimension A / B / C	Concrete footing / reinforcement basket	Footing code	Fasteners	Total net weight	Unit volume
BEAM II LED	4,0m - 40	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	27,0kg	0,50m³
BEAM II LED	5,0m - 50	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	32,0kg	0,60m³
BEAM II LED	6,0m - 60	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	38,0kg	0,80m³
BEAM II LED	7,0m - 70	400 / 300 / 10	B-70, B-71 / Z-70, Z-71	311170, 311171 / 311207, 311271	4012	45,5kg	1,10m³
BEAM II LED	8,0m - 80	400 / 300 / 12	B-70, B-71 / Z-70, Z-71	311170, 311171 / 311207, 311271	4012	54,0kg	1,30m³

Code	Name	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy
30/1/...	BEAM II LED 24	24 W	28 W	700 mA	2 700 K	3 600 lm	2 900 lm	104 lm/W
30/3/...	BEAM II LED 24	24 W	28 W	700 mA	3 500 K	3 700 lm	3 000 lm	107 lm/W
30/4/...	BEAM II LED 24	24 W	28 W	700 mA	4 000 K	4 350 lm	3 500 lm	125 lm/W
30/6/...	BEAM II LED 24	24 W	28 W	700 mA	5 000 K	4 350 lm	3 500 lm	125 lm/W
32/1/...	BEAM II LED 36	36 W	40 W	1 000 mA	2 700 K	4 900 lm	3 950 lm	99 lm/W
32/3/...	BEAM II LED 36	36 W	40 W	1 000 mA	3 500 K	5 100 lm	4 150 lm	104 lm/W
32/4/...	BEAM II LED 36	36 W	40 W	1 000 mA	4 000 K	6 000 lm	4 800 lm	120 lm/W
32/6/...	BEAM II LED 36	36 W	40 W	1 000 mA	5 000 K	6 000 lm	4 800 lm	120 lm/W
33/1/...	BEAM II LED 48	48 W	55 W	700 mA	2 700 K	7 050 lm	5 700 lm	104 lm/W
33/3/...	BEAM II LED 48	48 W	55 W	700 mA	3 500 K	7 350 lm	5 950 lm	108 lm/W
33/4/...	BEAM II LED 48	48 W	55 W	700 mA	4 000 K	8 650 lm	6 950 lm	126 lm/W
33/6/...	BEAM II LED 48	48 W	55 W	700 mA	5 000 K	8 650 lm	6 950 lm	126 lm/W
34/1/...	BEAM II LED 60	60 W	67 W	830 mA	2 700 K	8 150 lm	6 600 lm	99 lm/W
34/3/...	BEAM II LED 60	60 W	67 W	830 mA	3 500 K	8 500 lm	6 900 lm	103 lm/W
34/4/...	BEAM II LED 60	60 W	67 W	830 mA	4 000 K	10 050 lm	8 150 lm	122 lm/W
34/6/...	BEAM II LED 60	60 W	67 W	830 mA	5 000 K	10 050 lm	8 150 lm	122 lm/W
35/1/...	BEAM II LED 72	72 W	79 W	1 000 mA	2 700 K	9 450 lm	7 650 lm	97 lm/W
35/3/...	BEAM II LED 72	72 W	79 W	1 000 mA	3 500 K	9 900 lm	8 050 lm	102 lm/W
35/4/...	BEAM II LED 72	72 W	79 W	1 000 mA	4 000 K	11 650 lm	9 350 lm	118 lm/W
35/6/...	BEAM II LED 72	72 W	79 W	1 000 mA	5 000 K	11 650 lm	9 350 lm	118 lm/W

/... Symbol of selected optical system

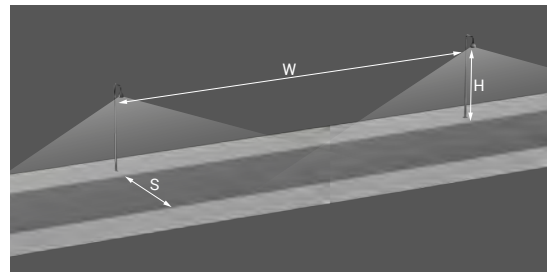
Order code example

2160040/32/3/T3/30/4/T2

Arm height #1 - H	Arm height #2 - h	Power of the arm #1	Power of the arm #2
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LED garnitúra
DROP I LED
DROP II LED

Lighting example

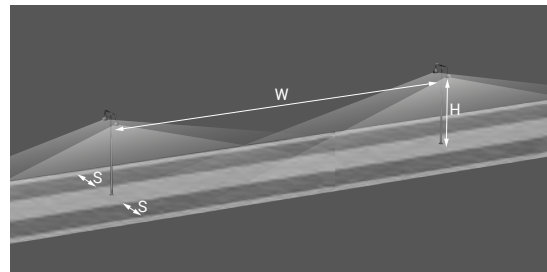


Bicycle and pedestrian path
DROP I LED 48 W

Parameters:
 H – lighting sets height: 5 m
 W – pole spacing: 24 m
 S – sidewalk width: 5 m

Lighting class C2

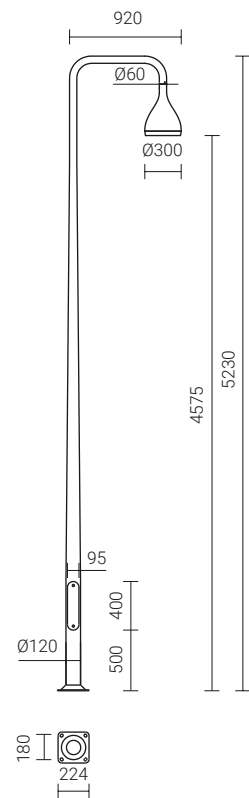
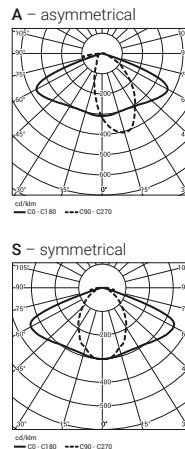
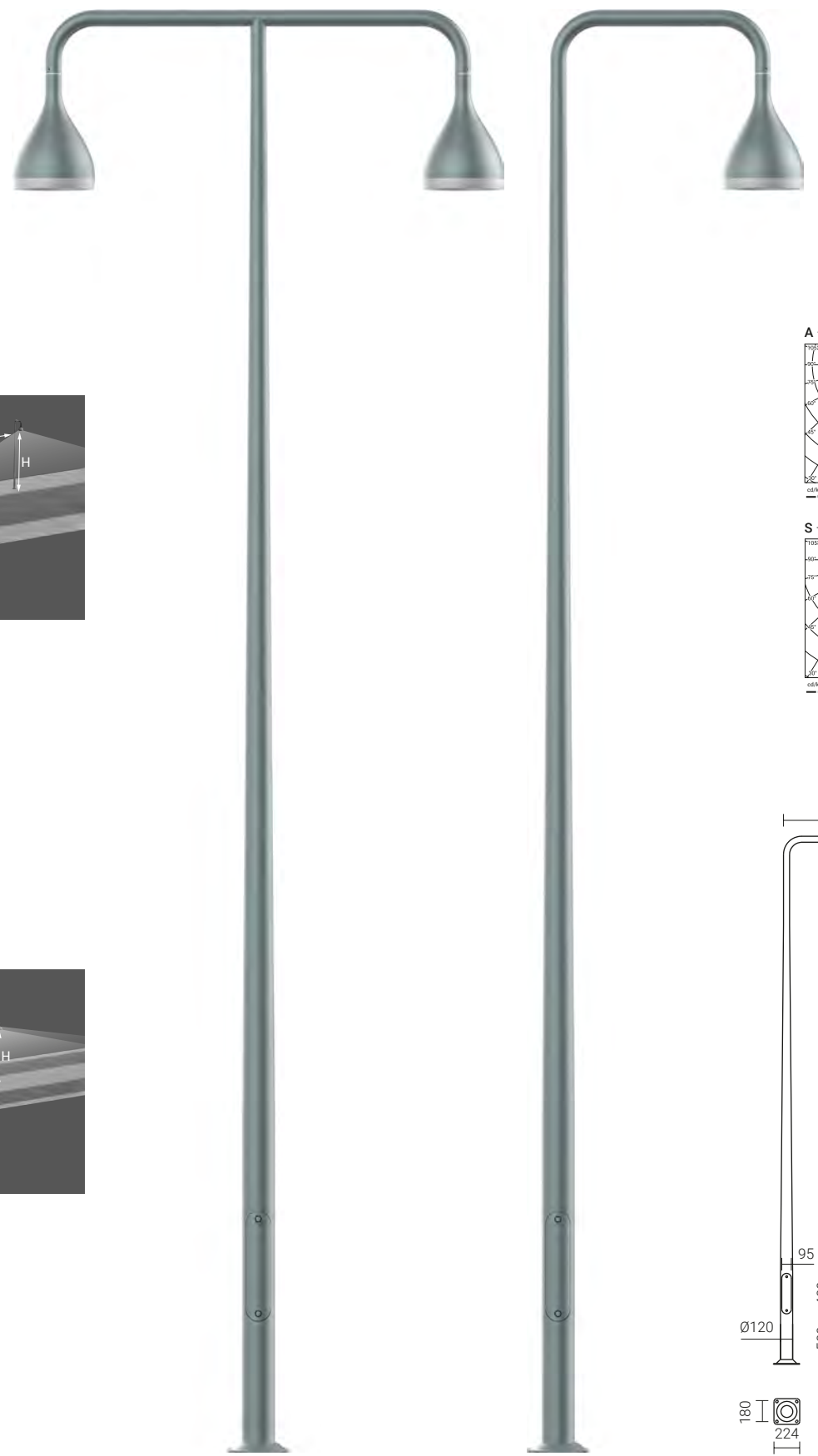
Lighting example



Bicycle and pedestrian path
DROP II LED 2x48 W

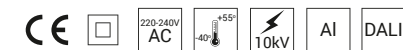
Parameters:
 H – lighting sets height: 5 m
 W – pole spacing: 24 m
 S – sidewalk width: 5x3x5 m

Lighting class C2



Application: residential streets, parks, pedestrian walkways
Ingress protection: IP 66
Material: anodised aluminium alloy
Colour: inox / graphite
Optical system: PMMA optics
Number of LEDs: 16 (DROP I), 2x16 (DROP II)
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 1m³ (DROP I), 1,7 m³ (DROP II)
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95

Lighting sets DROP I LED i DROP II LED have the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



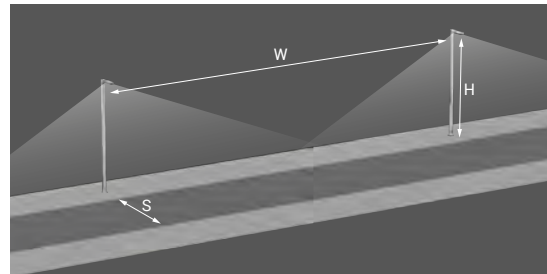
Code	Name	Height	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminaire efficacy	Total net weight	Concrete footing / reinforcement basket
215030/1/...	DROP I LED 24	5,2 m	24 W	28 W	500 mA	2 700 K	3 700 lm	3 500 lm	125 lm/W	25,9 kg	B-50 / Z-50
215030/3/...	DROP I LED 24	5,2 m	24 W	28 W	500 mA	3 500 K	3 900 lm	3 650 lm	130 lm/W	25,9 kg	B-50 / Z-50
215030/4/...	DROP I LED 24	5,2 m	24 W	28 W	500 mA	4 000 K	4 350 lm	4 150 lm	148 lm/W	25,9 kg	B-50 / Z-50
215030/6/...	DROP I LED 24	5,2 m	24 W	28 W	500 mA	5 000 K	4 350 lm	4 150 lm	148 lm/W	25,9 kg	B-50 / Z-50
215032/1/...	DROP I LED 36	5,2 m	36 W	41 W	750 mA	2 700 K	5 300 lm	5 000 lm	122 lm/W	25,9 kg	B-50 / Z-50
215032/3/...	DROP I LED 36	5,2 m	36 W	41 W	750 mA	3 500 K	5 450 lm	5 150 lm	126 lm/W	25,9 kg	B-50 / Z-50
215032/4/...	DROP I LED 36	5,2 m	36 W	41 W	750 mA	4 000 K	6 300 lm	6 000 lm	146 lm/W	25,9 kg	B-50 / Z-50
215032/6/...	DROP I LED 36	5,2 m	36 W	41 W	750 mA	5 000 K	6 300 lm	6 000 lm	146 lm/W	25,9 kg	B-50 / Z-50
215033/1/...	DROP I LED 48	5,2 m	48 W	55 W	1 000 mA	2 700 K	6 600 lm	6 300 lm	115 lm/W	25,9 kg	B-50 / Z-50
215033/3/...	DROP I LED 48	5,2 m	48 W	55 W	1 000 mA	3 500 K	6 900 lm	6 550 lm	119 lm/W	25,9 kg	B-50 / Z-50
215033/4/...	DROP I LED 48	5,2 m	48 W	55 W	1 000 mA	4 000 K	7 800 lm	7 400 lm	135 lm/W	25,9 kg	B-50 / Z-50
215033/6/...	DROP I LED 48	5,2 m	48 W	55 W	1 000 mA	5 000 K	7 800 lm	7 400 lm	135 lm/W	25,9 kg	B-50 / Z-50
215130/1/...	DROP II LED 24	5,2 m	2x24 W	2x28 W	500 mA	2 700 K	2x3 600 lm	2x3 500 lm	125 lm/W	34,9 kg	B-50 / Z-50
215130/3/...	DROP II LED 24	5,2 m	2x24 W	2x28 W	500 mA	3 500 K	2x3 900 lm	2x3 650 lm	130 lm/W	34,9 kg	B-50 / Z-50
215130/4/...	DROP II LED 24	5,2 m	2x24 W	2x28 W	500 mA	4 000 K	2x4 350 lm	2x4 150 lm	148 lm/W	34,9 kg	B-50 / Z-50
215130/6/...	DROP II LED 24	5,2 m	2x24 W	2x28 W	500 mA	5 000 K	2x4 350 lm	2x4 150 lm	148 lm/W	34,9 kg	B-50 / Z-50
215132/1/...	DROP II LED 36	5,2 m	2x36 W	2x41 W	750 mA	2 700 K	2x5 300 lm	2x5 000 lm	122 lm/W	34,9 kg	B-50 / Z-50
215132/3/...	DROP II LED 36	5,2 m	2x36 W	2x41 W	750 mA	3 500 K	2x5 450 lm	2x5 150 lm	126 lm/W	34,9 kg	B-50 / Z-50
215132/4/...	DROP II LED 36	5,2 m	2x36 W	2x41 W	750 mA	4 000 K	2x6 300 lm	2x6 000 lm	146 lm/W	34,9 kg	B-50 / Z-50
215132/6/...	DROP II LED 36	5,2 m	2x36 W	2x41 W	750 mA	5 000 K	2x6 300 lm	2x6 000 lm	146 lm/W	34,9 kg	B-50 / Z-50
215133/1/...	DROP II LED 48	5,2 m	2x48 W	2x55 W	1 000 mA	2 700 K	2x6 600 lm	2x6 300 lm	115 lm/W	34,9 kg	B-50 / Z-50
215133/3/...	DROP II LED 48	5,2 m	2x48 W	2x55 W	1 000 mA	3 500 K	2x6 900 lm	2x6 550 lm	119 lm/W	34,9 kg	B-50 / Z-50
215133/4/...	DROP II LED 48	5,2 m	2x48 W	2x55 W	1 000 mA	4 000 K	2x7 800 lm	2x7 400 lm	135 lm/W	34,9 kg	B-50 / Z-50
215133/6/...	DROP II LED 48	5,2 m	2x48 W	2x55 W	1 000 mA	5 000 K	2x7 800 lm	2x7 400 lm	135 lm/W	34,9 kg	B-50 / Z-50

/... Symbol of selected optical system

LED garnitúra

CUT-3/4/5 LED

Lighting example



Sidewalk

CUT-5 LED 36 W, T3 optics

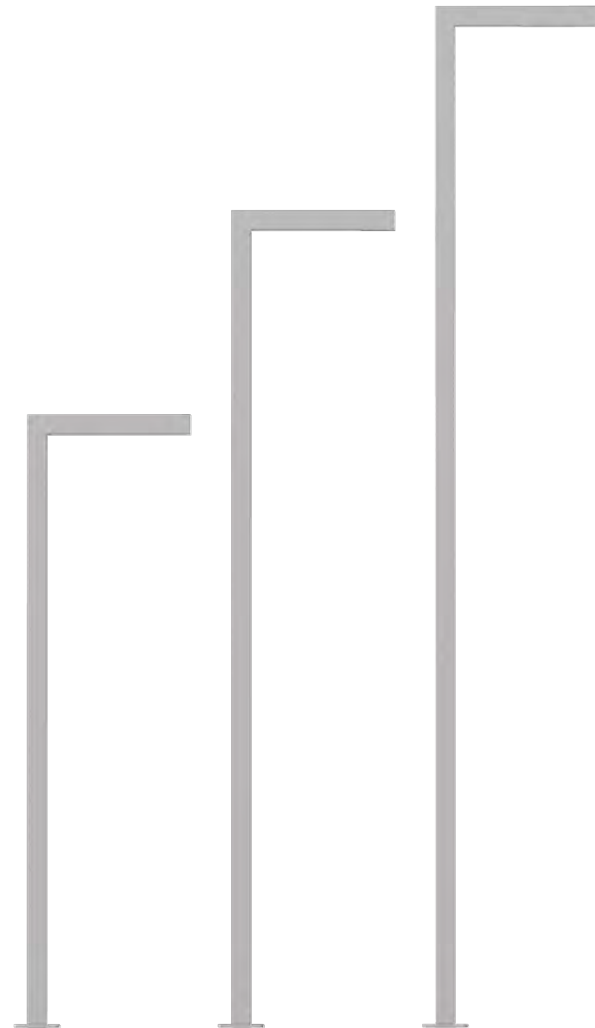
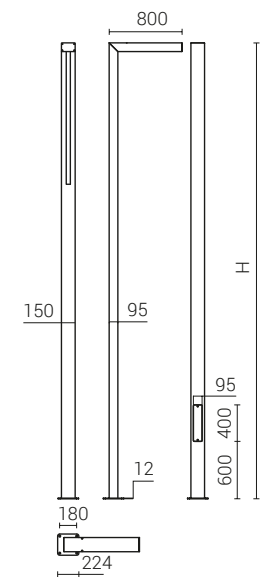
Parameters:

H – lighting sets height: 5 m

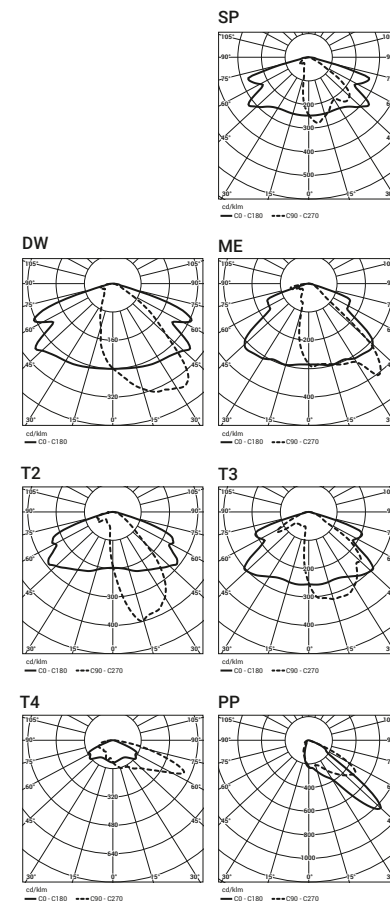
W – pole spacing: 19 m

S – sidewalk width: 5 m

Lighting class C2



Wrocław, Poland



Application: residential streets, parks, pedestrian walkways, office building precincts

Ingress protection: IP 66 for the optical part and the driver

Material: anodised aluminium alloy

Colour: inox / gray

Optical system: PMMA optics, interchangeable LED module

Number of LEDs: 12 (for 24 W, 36 W), 24 (for 48 W)

Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 0,5 m³ (for CUT-3),
0,7 m³ (for CUT-4),
1,0 m³ (for CUT-5)

Input voltage frequency: 50/60 Hz

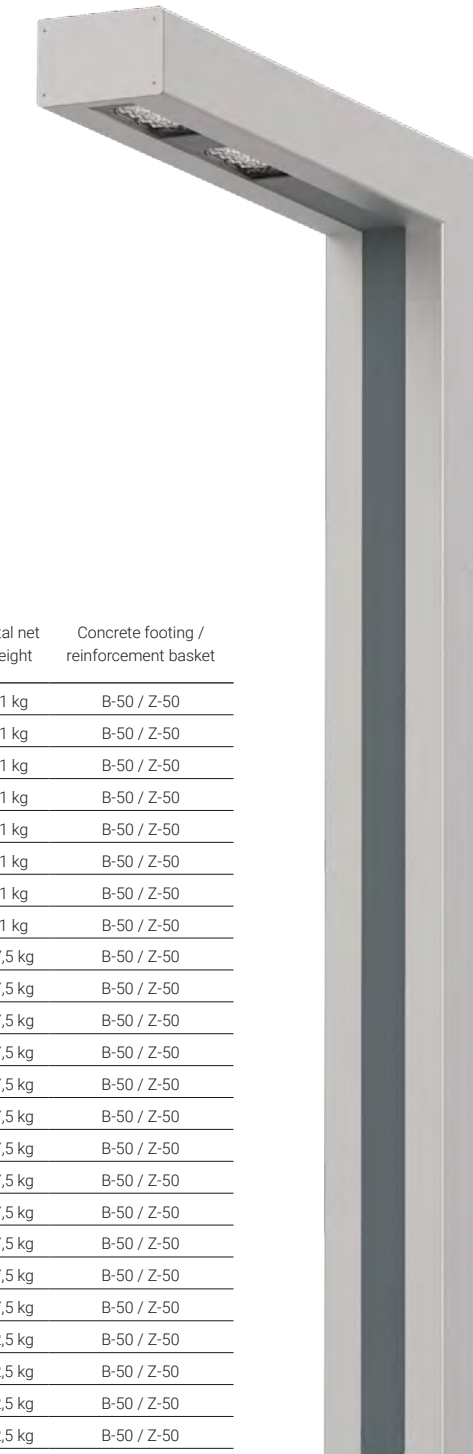
Power factor: ≥ 0,95

Lighting sets CUT LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



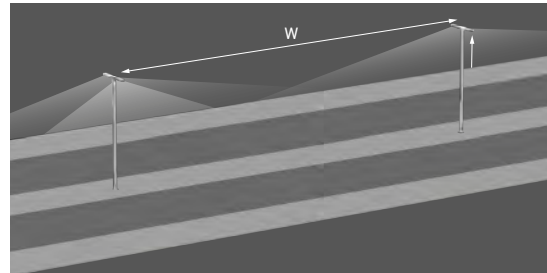
Code	Name	Height H	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
216230/1/...	CUT-3 LED 24	3 m	24 W	28 W	700 mA	2 700 K	3 600 lm	2 800 lm	100 lm/W	31 kg	B-50 / Z-50
216230/3/...	CUT-3 LED 24	3 m	24 W	28 W	700 mA	3 500 K	3 700 lm	2 900 lm	104 lm/W	31 kg	B-50 / Z-50
216230/4/...	CUT-3 LED 24	3 m	24 W	28 W	700 mA	4 000 K	4 350 lm	3 400 lm	121 lm/W	31 kg	B-50 / Z-50
216230/6/...	CUT-3 LED 24	3 m	24 W	28 W	700 mA	5 000 K	4 350 lm	3 400 lm	121 lm/W	31 kg	B-50 / Z-50
216232/1/...	CUT-3 LED 36	3 m	36 W	40 W	1 000 mA	2 700 K	4 900 lm	3 850 lm	96 lm/W	31 kg	B-50 / Z-50
216232/3/...	CUT-3 LED 36	3 m	36 W	40 W	1 000 mA	3 500 K	5 100 lm	4 000 lm	100 lm/W	31 kg	B-50 / Z-50
216232/4/...	CUT-3 LED 36	3 m	36 W	40 W	1 000 mA	4 000 K	6 000 lm	4 700 lm	118 lm/W	31 kg	B-50 / Z-50
216232/6/...	CUT-3 LED 36	3 m	36 W	40 W	1 000 mA	5 000 K	6 000 lm	4 700 lm	118 lm/W	31 kg	B-50 / Z-50
216330/1/...	CUT-4 LED 24	4 m	24 W	28 W	700 mA	2 700 K	3 600 lm	2 800 lm	100 lm/W	37,5 kg	B-50 / Z-50
216330/3/...	CUT-4 LED 24	4 m	24 W	28 W	700 mA	3 500 K	3 700 lm	2 900 lm	104 lm/W	37,5 kg	B-50 / Z-50
216330/4/...	CUT-4 LED 24	4 m	24 W	28 W	700 mA	4 000 K	4 350 lm	3 400 lm	121 lm/W	37,5 kg	B-50 / Z-50
216330/6/...	CUT-4 LED 24	4 m	24 W	28 W	700 mA	5 000 K	4 350 lm	3 400 lm	121 lm/W	37,5 kg	B-50 / Z-50
216332/1/...	CUT-4 LED 36	4 m	36 W	40 W	1 000 mA	2 700 K	4 900 lm	3 850 lm	96 lm/W	37,5 kg	B-50 / Z-50
216332/3/...	CUT-4 LED 36	4 m	36 W	40 W	1 000 mA	3 500 K	5 100 lm	4 000 lm	100 lm/W	37,5 kg	B-50 / Z-50
216332/4/...	CUT-4 LED 36	4 m	36 W	40 W	1 000 mA	4 000 K	6 000 lm	4 700 lm	118 lm/W	37,5 kg	B-50 / Z-50
216332/6/...	CUT-4 LED 36	4 m	36 W	40 W	1 000 mA	5 000 K	6 000 lm	4 700 lm	118 lm/W	37,5 kg	B-50 / Z-50
216333/1/...	CUT-4 LED 48	4 m	48 W	55 W	700 mA	2 700 K	7 050 lm	5 500 lm	100 lm/W	37,5 kg	B-50 / Z-50
216333/3/...	CUT-4 LED 48	4 m	48 W	55 W	700 mA	3 500 K	7 350 lm	5 750 lm	105 lm/W	37,5 kg	B-50 / Z-50
216333/4/...	CUT-4 LED 48	4 m	48 W	55 W	700 mA	4 000 K	8 650 lm	6 750 lm	122 lm/W	37,5 kg	B-50 / Z-50
216333/6/...	CUT-4 LED 48	4 m	48 W	55 W	700 mA	5 000 K	8 650 lm	6 750 lm	122 lm/W	37,5 kg	B-50 / Z-50
216030/1/...	CUT-5 LED 24	5 m	24 W	28 W	700 mA	2 700 K	3 600 lm	2 800 lm	100 lm/W	42,5 kg	B-50 / Z-50
216030/3/...	CUT-5 LED 24	5 m	24 W	28 W	700 mA	3 500 K	3 700 lm	2 900 lm	104 lm/W	42,5 kg	B-50 / Z-50
216030/4/...	CUT-5 LED 24	5 m	24 W	28 W	700 mA	4 000 K	4 350 lm	3 400 lm	121 lm/W	42,5 kg	B-50 / Z-50
216030/6/...	CUT-5 LED 24	5 m	24 W	28 W	700 mA	5 000 K	4 350 lm	3 400 lm	121 lm/W	42,5 kg	B-50 / Z-50
216032/1/...	CUT-5 LED 36	5 m	36 W	40 W	1 000 mA	2 700 K	4 900 lm	3 850 lm	96 lm/W	42,5 kg	B-50 / Z-50
216032/3/...	CUT-5 LED 36	5 m	36 W	40 W	1 000 mA	3 500 K	5 100 lm	4 000 lm	100 lm/W	42,5 kg	B-50 / Z-50
216032/4/...	CUT-5 LED 36	5 m	36 W	40 W	1 000 mA	4 000 K	6 000 lm	4 700 lm	118 lm/W	42,5 kg	B-50 / Z-50
216032/6/...	CUT-5 LED 36	5 m	36 W	40 W	1 000 mA	5 000 K	6 000 lm	4 700 lm	118 lm/W	42,5 kg	B-50 / Z-50
216033/1/...	CUT-5 LED 48	5 m	48 W	55 W	700 mA	2 700 K	7 050 lm	5 500 lm	100 lm/W	42,5 kg	B-50 / Z-50
216033/3/...	CUT-5 LED 48	5 m	48 W	55 W	700 mA	3 500 K	7 350 lm	5 750 lm	105 lm/W	42,5 kg	B-50 / Z-50
216033/4/...	CUT-5 LED 48	5 m	48 W	55 W	700 mA	4 000 K	8 650 lm	6 750 lm	122 lm/W	42,5 kg	B-50 / Z-50
216033/6/...	CUT-5 LED 48	5 m	48 W	55 W	700 mA	5 000 K	8 650 lm	6 750 lm	122 lm/W	42,5 kg	B-50 / Z-50

/... Symbol of selected optical system



LED garnitúra
CUT-4/5 II LED

Lighting example



Sidewalk

CUT-II-5 LED 36 W, SP optics

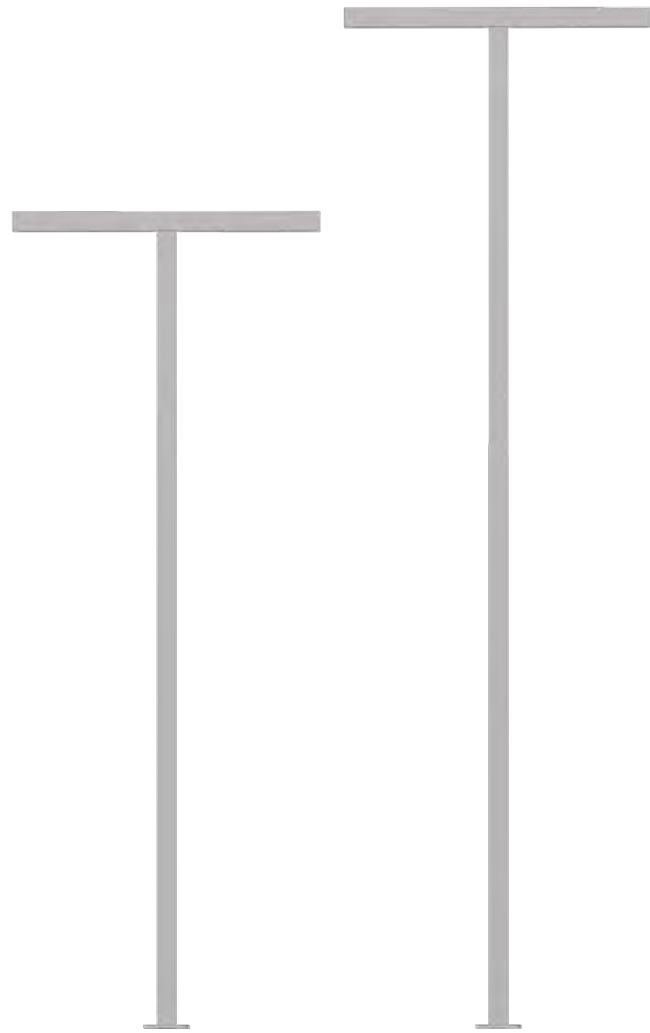
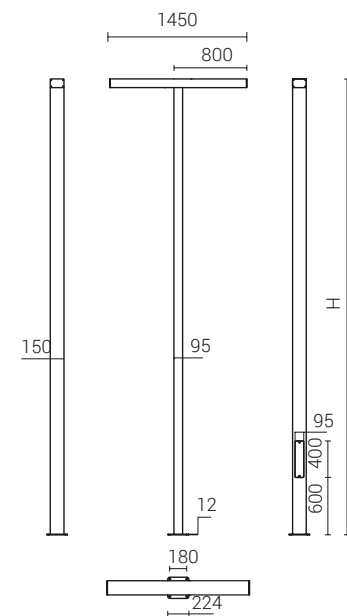
Parameters:

H – lighting sets height: 5 m

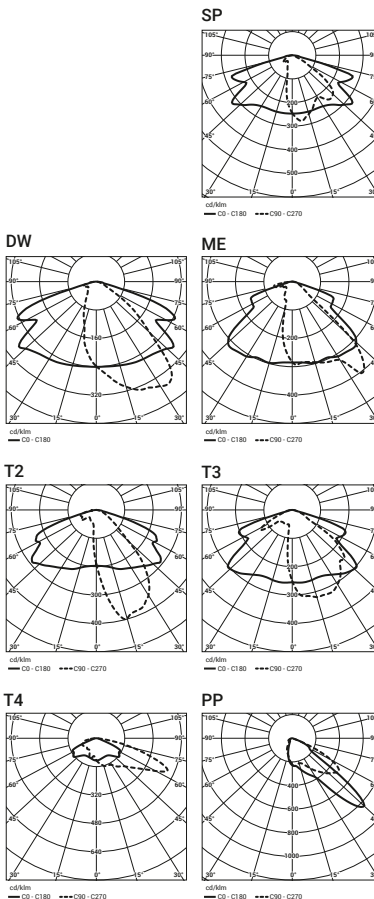
W – pole spacing: 31 m

S – sidewalk width: 5 m

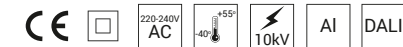
Lighting class C2



Warsaw, Poland



Application: residential streets, parks, pedestrian walkways, office building precincts
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium alloy
Colour: inox / gray
Optical system: PMMA optics, interchangeable LED module
Number of LEDs: 2x12 (for 24 W, 36 W), 2x24 (for 48 W)
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,7 m³ (for CUT-II-4),
 1,0 m³ (for CUT-II-5)
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95
 Lighting sets CUT LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



Code	Name	Height H	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
2106330/1/...	CUT-II-4 LED 24	4 m	2x24 W	2x28 W	700 mA	2 700 K	2x3600 lm	2x2800 lm	100 lm/W	44,5 kg	B-50 / Z-50
2106330/3/...	CUT-II-4 LED 24	4 m	2x24 W	2x28 W	700 mA	3 500 K	2x3700 lm	2x2900 lm	104 lm/W	44,5 kg	B-50 / Z-50
2106330/4/...	CUT-II-4 LED 24	4 m	2x24 W	2x28 W	700 mA	4 000 K	2x4350 lm	2x3400 lm	121 lm/W	44,5 kg	B-50 / Z-50
2106330/6/...	CUT-II-4 LED 24	4 m	2x24 W	2x28 W	700 mA	5 000 K	2x4350 lm	2x3400 lm	121 lm/W	44,5 kg	B-50 / Z-50
2106332/1/...	CUT-II-4 LED 36	4 m	2x36 W	2x40 W	1 000 mA	2 700 K	2x4900 lm	2x3850 lm	96 lm/W	44,5 kg	B-50 / Z-50
2106332/3/...	CUT-II-4 LED 36	4 m	2x36 W	2x40 W	1 000 mA	3 500 K	2x5100 lm	2x4000 lm	100 lm/W	44,5 kg	B-50 / Z-50
2106332/4/...	CUT-II-4 LED 36	4 m	2x36 W	2x40 W	1 000 mA	4 000 K	2x6000 lm	2x4700 lm	118 lm/W	44,5 kg	B-50 / Z-50
2106332/6/...	CUT-II-4 LED 36	4 m	2x36 W	2x40 W	1 000 mA	5 000 K	2x6000 lm	2x4700 lm	118 lm/W	44,5 kg	B-50 / Z-50
2106333/1/...	CUT-II-4 LED 48	4 m	2x48 W	2x55 W	700 mA	2 700 K	2x7050 lm	2x5500 lm	100 lm/W	44,5 kg	B-50 / Z-50
2106333/3/...	CUT-II-4 LED 48	4 m	2x48 W	2x55 W	700 mA	3 500 K	2x7350 lm	2x5750 lm	105 lm/W	44,5 kg	B-50 / Z-50
2106333/4/...	CUT-II-4 LED 48	4 m	2x48 W	2x55 W	700 mA	4 000 K	2x8650 lm	2x6750 lm	122 lm/W	44,5 kg	B-50 / Z-50
2106333/6/...	CUT-II-4 LED 48	4 m	2x48 W	2x55 W	700 mA	5 000 K	2x8650 lm	2x6750 lm	122 lm/W	44,5 kg	B-50 / Z-50
2106030/1/...	CUT-II-5 LED 24	5 m	2x24 W	2x28 W	700 mA	2 700 K	2x3600 lm	2x2800 lm	100 lm/W	50,5 kg	B-50 / Z-50
2106030/3/...	CUT-II-5 LED 24	5 m	2x24 W	2x28 W	700 mA	3 500 K	2x3700 lm	2x2900 lm	104 lm/W	50,5 kg	B-50 / Z-50
2106030/4/...	CUT-II-5 LED 24	5 m	2x24 W	2x28 W	700 mA	4 000 K	2x4350 lm	2x3400 lm	121 lm/W	50,5 kg	B-50 / Z-50
2106030/6/...	CUT-II-5 LED 24	5 m	2x24 W	2x28 W	700 mA	5 000 K	2x4350 lm	2x3400 lm	121 lm/W	50,5 kg	B-50 / Z-50
2106032/1/...	CUT-II-5 LED 36	5 m	2x36 W	2x40 W	1 000 mA	2 700 K	2x4900 lm	2x3850 lm	96 lm/W	50,5 kg	B-50 / Z-50
2106032/3/...	CUT-II-5 LED 36	5 m	2x36 W	2x40 W	1 000 mA	3 500 K	2x5100 lm	2x4000 lm	100 lm/W	50,5 kg	B-50 / Z-50
2106032/4/...	CUT-II-5 LED 36	5 m	2x36 W	2x40 W	1 000 mA	4 000 K	2x6000 lm	2x4700 lm	118 lm/W	50,5 kg	B-50 / Z-50
2106032/6/...	CUT-II-5 LED 36	5 m	2x36 W	2x40 W	1 000 mA	5 000 K	2x6000 lm	2x4700 lm	118 lm/W	50,5 kg	B-50 / Z-50
2106033/1/...	CUT-II-5 LED 48	5 m	2x48 W	2x55 W	700 mA	2 700 K	2x7050 lm	2x5500 lm	100 lm/W	50,5 kg	B-50 / Z-50
2106033/3/...	CUT-II-5 LED 48	5 m	2x48 W	2x55 W	700 mA	3 500 K	2x7350 lm	2x5750 lm	105 lm/W	50,5 kg	B-50 / Z-50
2106033/4/...	CUT-II-5 LED 48	5 m	2x48 W	2x55 W	700 mA	4 000 K	2x8650 lm	2x6750 lm	122 lm/W	50,5 kg	B-50 / Z-50
2106033/6/...	CUT-II-5 LED 48	5 m	2x48 W	2x55 W	700 mA	5 000 K	2x8650 lm	2x6750 lm	122 lm/W	50,5 kg	B-50 / Z-50

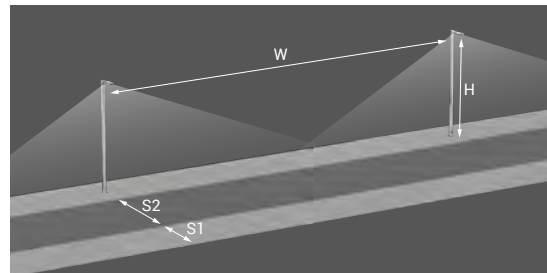
/... Symbol of selected optical system



LED garnitúra

CUT-6/7/8 LED

Lighting example



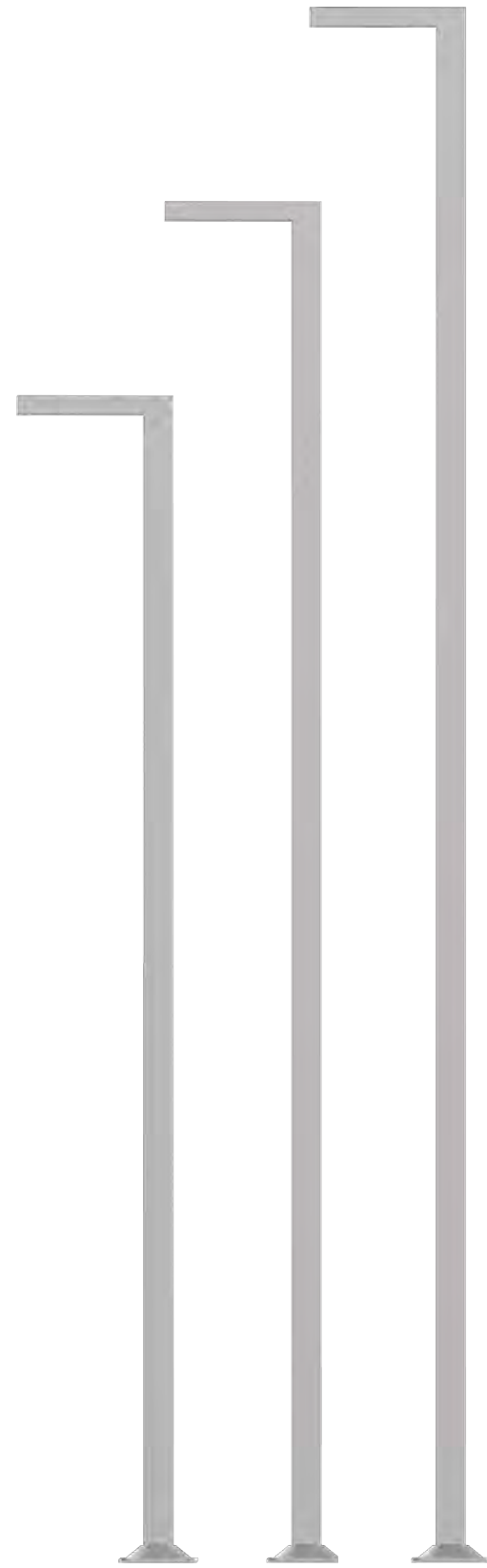
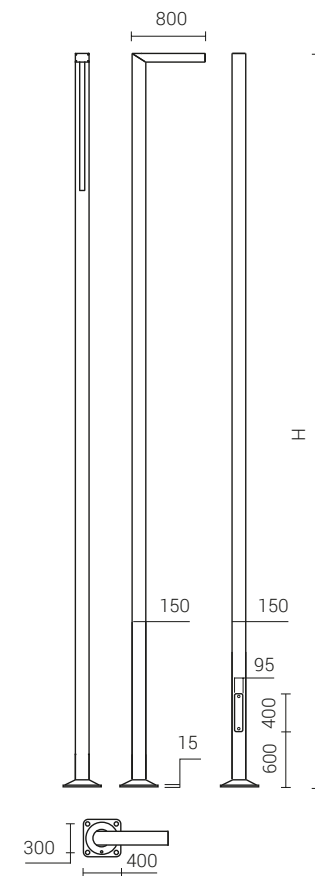
Road with parking spaces and sidewalk

CUT-8 LED 72 W, T3 optics

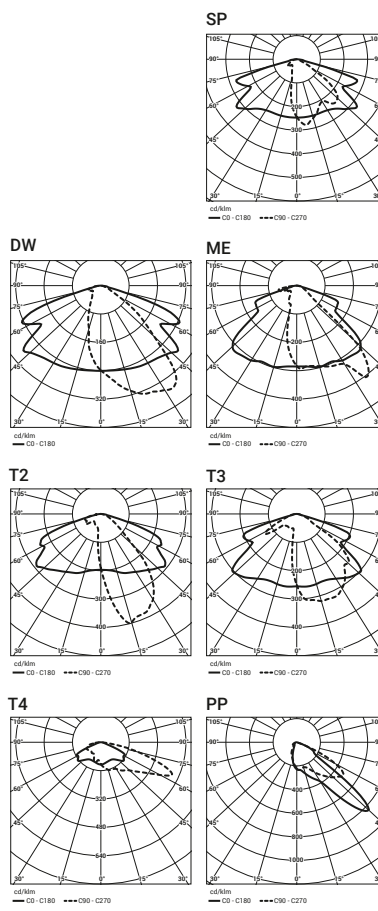
Parameters:

- H – lighting sets height: 8 m
- W – pole spacing: 25 m
- S1 – sidewalk width: 3 m
- S2 – road width: 7 m

Lighting class C2



Cracow, Poland



Application: urban roads, residential streets, office building precincts, parks, pedestrian walkways

Ingress protection: IP 66 for the optical part and the driver

Material: anodised aluminium alloy

Colour: inox / gray

Optical system: PMMA optics, interchangeable LED module

Number of LEDs: 24

Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 1,2 m³ (for CUT-6),
1,4 m³ (for CUT-7),
1,6 m³ (for CUT-8)

Input voltage frequency: 50/60 Hz

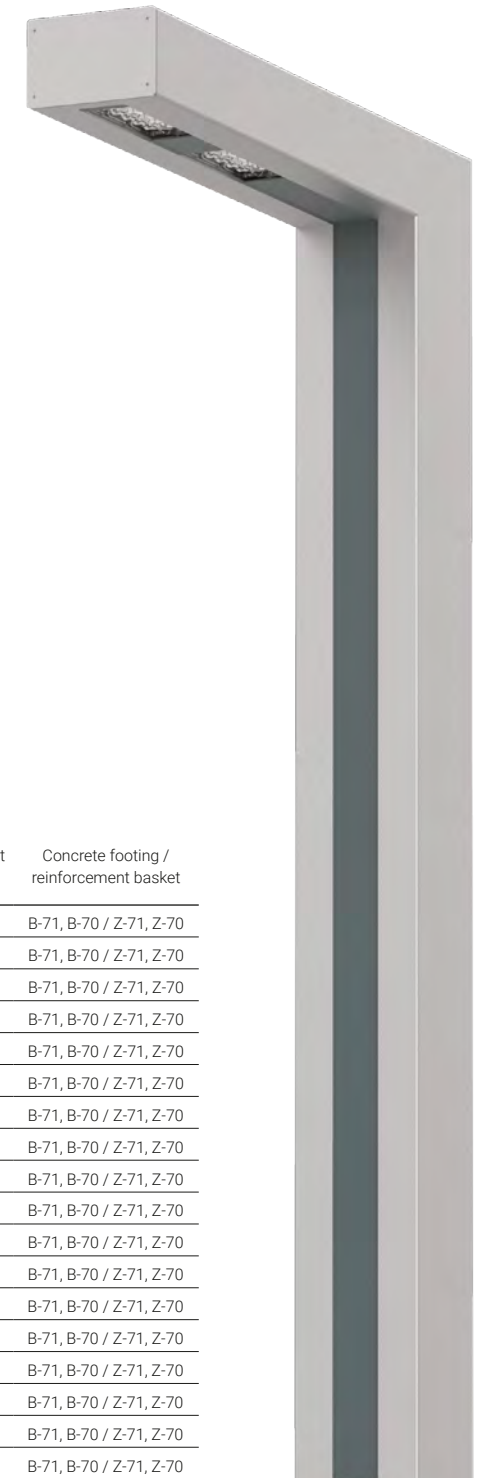
Power factor: ≥ 0,95

Lighting set CUT LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



Code	Name	Height H	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
216633/1/...	CUT-6 LED 48	6 m	48 W	55 W	700 mA	2 700 K	7 050 lm	5 500 lm	100 lm/W	62,5 kg	B-71, B-70 / Z-71, Z-70
216633/3/...	CUT-6 LED 48	6 m	48 W	55 W	700 mA	3 500 K	7 350 lm	5 750 lm	105 lm/W	62,5 kg	B-71, B-70 / Z-71, Z-70
216633/4/...	CUT-6 LED 48	6 m	48 W	55 W	700 mA	4 000 K	8 650 lm	6 750 lm	122 lm/W	62,5 kg	B-71, B-70 / Z-71, Z-70
216633/6/...	CUT-6 LED 48	6 m	48 W	55 W	700 mA	5 000 K	8 650 lm	6 750 lm	122 lm/W	62,5 kg	B-71, B-70 / Z-71, Z-70
216635/1/...	CUT-6 LED 72	6 m	72 W	79 W	1 000 mA	2 700 K	9 450 lm	7 400 lm	94 lm/W	62,5 kg	B-71, B-70 / Z-71, Z-70
216635/3/...	CUT-6 LED 72	6 m	72 W	79 W	1 000 mA	3 500 K	9 900 lm	7 750 lm	98 lm/W	62,5 kg	B-71, B-70 / Z-71, Z-70
216635/4/...	CUT-6 LED 72	6 m	72 W	79 W	1 000 mA	4 000 K	11 650 lm	9 150 lm	116 lm/W	62,5 kg	B-71, B-70 / Z-71, Z-70
216635/6/...	CUT-6 LED 72	6 m	72 W	79 W	1 000 mA	5 000 K	11 650 lm	9 150 lm	116 lm/W	62,5 kg	B-71, B-70 / Z-71, Z-70
216733/1/...	CUT-7 LED 48	7 m	48 W	55 W	700 mA	2 700 K	7 050 lm	5 500 lm	100 lm/W	69,5 kg	B-71, B-70 / Z-71, Z-70
216733/3/...	CUT-7 LED 48	7 m	48 W	55 W	700 mA	3 500 K	7 350 lm	5 750 lm	105 lm/W	69,5 kg	B-71, B-70 / Z-71, Z-70
216733/4/...	CUT-7 LED 48	7 m	48 W	55 W	700 mA	4 000 K	8 650 lm	6 750 lm	122 lm/W	69,5 kg	B-71, B-70 / Z-71, Z-70
216733/6/...	CUT-7 LED 48	7 m	48 W	55 W	700 mA	5 000 K	8 650 lm	6 750 lm	122 lm/W	69,5 kg	B-71, B-70 / Z-71, Z-70
216735/1/...	CUT-7 LED 72	7 m	72 W	79 W	1 000 mA	2 700 K	9 450 lm	7 400 lm	94 lm/W	69,5 kg	B-71, B-70 / Z-71, Z-70
216735/3/...	CUT-7 LED 72	7 m	72 W	79 W	1 000 mA	3 500 K	9 900 lm	7 750 lm	98 lm/W	69,5 kg	B-71, B-70 / Z-71, Z-70
216735/4/...	CUT-7 LED 72	7 m	72 W	79 W	1 000 mA	4 000 K	11 650 lm	9 150 lm	116 lm/W	69,5 kg	B-71, B-70 / Z-71, Z-70
216735/6/...	CUT-7 LED 72	7 m	72 W	79 W	1 000 mA	5 000 K	11 650 lm	9 150 lm	116 lm/W	69,5 kg	B-71, B-70 / Z-71, Z-70
216433/1/...	CUT-8 LED 48	8 m	48 W	55 W	700 mA	2 700 K	7 050 lm	5 500 lm	100 lm/W	76 kg	B-71, B-70 / Z-71, Z-70
216433/3/...	CUT-8 LED 48	8 m	48 W	55 W	700 mA	3 500 K	7 350 lm	5 750 lm	105 lm/W	76 kg	B-71, B-70 / Z-71, Z-70
216433/4/...	CUT-8 LED 48	8 m	48 W	55 W	700 mA	4 000 K	8 650 lm	6 750 lm	122 lm/W	76 kg	B-71, B-70 / Z-71, Z-70
216433/6/...	CUT-8 LED 48	8 m	48 W	55 W	700 mA	5 000 K	8 650 lm	6 750 lm	122 lm/W	76 kg	B-71, B-70 / Z-71, Z-70
216435/1/...	CUT-8 LED 72	8 m	72 W	79 W	1 000 mA	2 700 K	9 450 lm	7 400 lm	94 lm/W	76 kg	B-71, B-70 / Z-71, Z-70
216435/3/...	CUT-8 LED 72	8 m	72 W	79 W	1 000 mA	3 500 K	9 900 lm	7 750 lm	98 lm/W	76 kg	B-71, B-70 / Z-71, Z-70
216435/4/...	CUT-8 LED 72	8 m	72 W	79 W	1 000 mA	4 000 K	11 650 lm	9 150 lm	116 lm/W	76 kg	B-71, B-70 / Z-71, Z-70
216435/6/...	CUT-8 LED 72	8 m	72 W	79 W	1 000 mA	5 000 K	11 650 lm	9 150 lm	116 lm/W	76 kg	B-71, B-70 / Z-71, Z-70

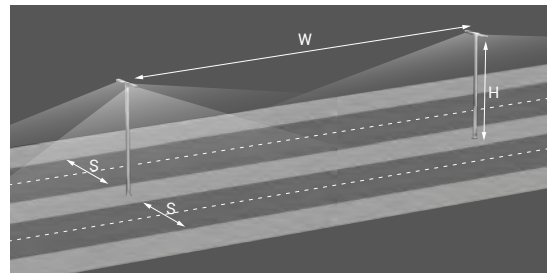
/... Symbol of selected optical system



LED garnitúra

CUT-II-6/7/8 LED

Lighting example



Dual carriageway with two lanes

CUT-II-8 LED 72 W, T3 optics

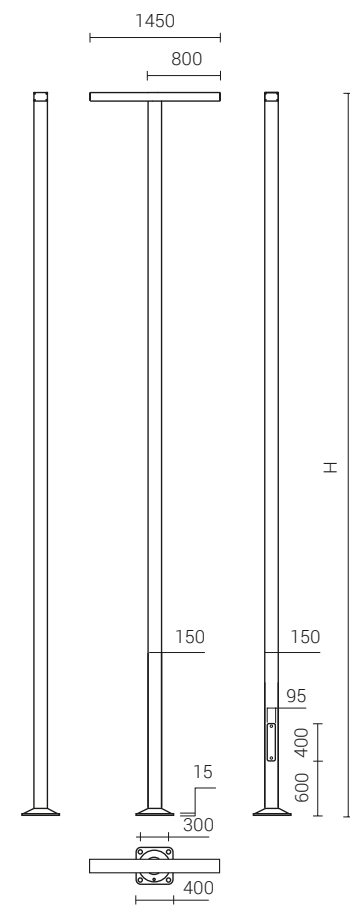
Parameters:

H – lighting sets height: 8 m

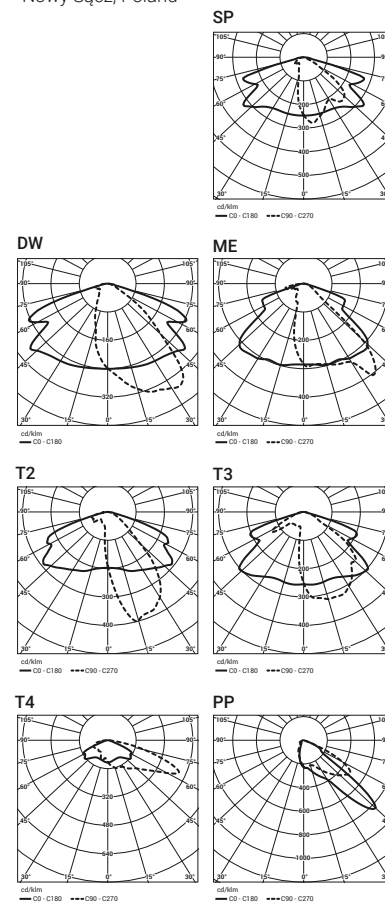
W – pole spacing: 31 m

S – road width: 7 m

Lighting class M3



Nowy Sącz, Poland



Application: urban roads, residential streets, office building precincts, parks, pedestrian walkways

Ingress protection: IP 66 for the optical part and the driver

Material: anodised aluminium alloy

Colour: inox / gray

Optical system: PMMA optics, interchangeable LED module

Number of LEDs: 2x24

Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

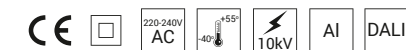
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 1,2 m³ (for CUT-II-6),
1,4 m³ (for CUT-II-7),
1,6 m³ (for CUT-II-8)

Input voltage frequency: 50/60 Hz

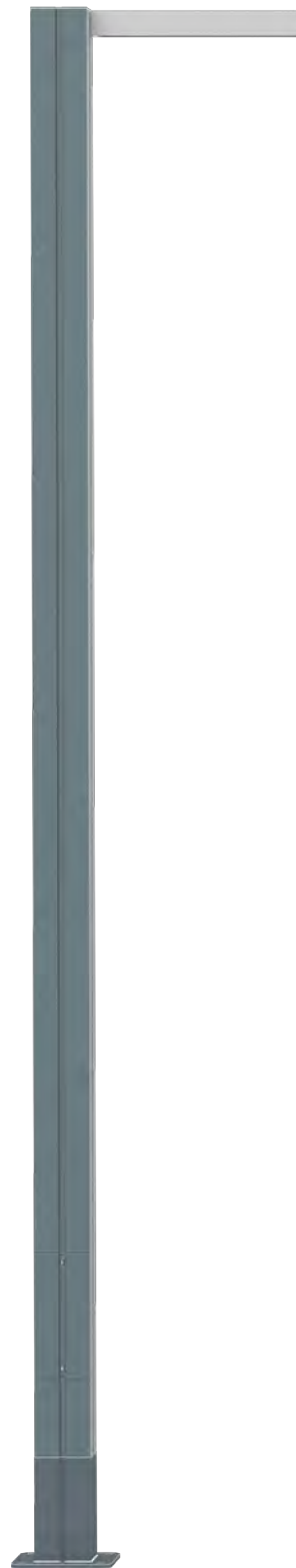
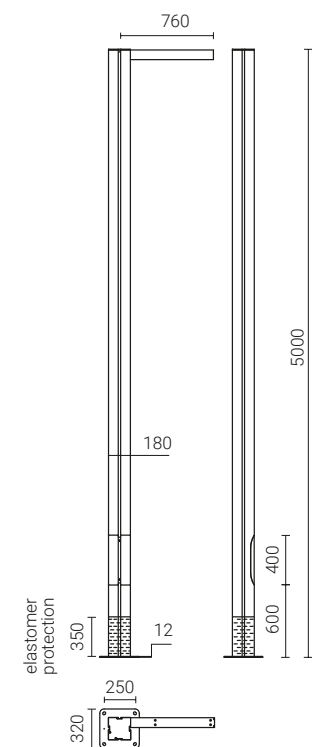
Power factor: ≥ 0,95

Lighting set CUT-8 LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).

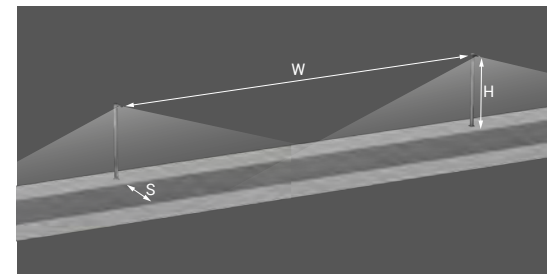


Code	Name	Height H	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
2106633/1/...	CUT-II-6 LED 48	6 m	2x48 W	2x55 W	700 mA	2 700 K	2x7 050 lm	2x5 500 lm	100 lm/W	70 kg	B-71, B-70 / Z-71, Z-70
2106633/2/...	CUT-II-6 LED 48	6 m	2x48 W	2x55 W	700 mA	3 500 K	2x7 350 lm	2x5 750 lm	105 lm/W	70 kg	B-71, B-70 / Z-71, Z-70
2106633/3/...	CUT-II-6 LED 48	6 m	2x48 W	2x55 W	700 mA	4 000 K	2x8 650 lm	2x6 750 lm	122 lm/W	70 kg	B-71, B-70 / Z-71, Z-70
2106633/4/...	CUT-II-6 LED 48	6 m	2x48 W	2x55 W	700 mA	5 000 K	2x8 650 lm	2x6 750 lm	122 lm/W	70 kg	B-71, B-70 / Z-71, Z-70
2106635/1/...	CUT-II-6 LED 72	6 m	2x72 W	2x79 W	1 000 mA	2 700 K	2x9 450 lm	2x7 400 lm	94 lm/W	70 kg	B-71, B-70 / Z-71, Z-70
2106635/3/...	CUT-II-6 LED 72	6 m	2x72 W	2x79 W	1 000 mA	3 500 K	2x9 900 lm	2x7 750 lm	98 lm/W	70 kg	B-71, B-70 / Z-71, Z-70
2106635/4/...	CUT-II-6 LED 72	6 m	2x72 W	2x79 W	1 000 mA	4 000 K	2x11 650 lm	2x9 150 lm	116 lm/W	70 kg	B-71, B-70 / Z-71, Z-70
2106635/6/...	CUT-II-6 LED 72	6 m	2x72 W	2x79 W	1 000 mA	5 000 K	2x11 650 lm	2x9 150 lm	116 lm/W	70 kg	B-71, B-70 / Z-71, Z-70
2106733/1/...	CUT-II-7 LED 48	7 m	2x48 W	2x55 W	700 mA	2 700 K	2x7 050 lm	2x5 500 lm	100 lm/W	77 kg	B-71, B-70 / Z-71, Z-70
2106733/3/...	CUT-II-7 LED 48	7 m	2x48 W	2x55 W	700 mA	3 500 K	2x7 350 lm	2x5 750 lm	105 lm/W	77 kg	B-71, B-70 / Z-71, Z-70
2106733/4/...	CUT-II-7 LED 48	7 m	2x48 W	2x55 W	700 mA	4 000 K	2x8 650 lm	2x6 750 lm	122 lm/W	77 kg	B-71, B-70 / Z-71, Z-70
2106733/6/...	CUT-II-7 LED 48	7 m	2x48 W	2x55 W	700 mA	5 000 K	2x8 650 lm	2x6 750 lm	122 lm/W	77 kg	B-71, B-70 / Z-71, Z-70
2106735/1/...	CUT-II-7 LED 72	7 m	2x72 W	2x79 W	1 000 mA	2 700 K	2x9 450 lm	2x7 400 lm	94 lm/W	77 kg	B-71, B-70 / Z-71, Z-70
2106735/3/...	CUT-II-7 LED 72	7 m	2x72 W	2x79 W	1 000 mA	3 500 K	2x9 900 lm	2x7 750 lm	98 lm/W	77 kg	B-71, B-70 / Z-71, Z-70
2106735/4/...	CUT-II-7 LED 72	7 m	2x72 W	2x79 W	1 000 mA	4 000 K	2x11 650 lm	2x9 150 lm	116 lm/W	77 kg	B-71, B-70 / Z-71, Z-70
2106735/6/...	CUT-II-7 LED 72	7 m	2x72 W	2x79 W	1 000 mA	5 000 K	2x11 650 lm	2x9 150 lm	116 lm/W	77 kg	B-71, B-70 / Z-71, Z-70
2106433/1/...	CUT-II-8 LED 48	8 m	2x48 W	2x55 W	700 mA	2 700 K	2x7 050 lm	2x5 500 lm	100 lm/W	83,5 kg	B-71, B-70 / Z-71, Z-70
2106433/3/...	CUT-II-8 LED 48	8 m	2x48 W	2x55 W	700 mA	3 500 K	2x7 350 lm	2x5 750 lm	105 lm/W	83,5 kg	B-71, B-70 / Z-71, Z-70
2106433/4/...	CUT-II-8 LED 48	8 m	2x48 W	2x55 W	700 mA	4 000 K	2x8 650 lm	2x6 750 lm	122 lm/W	83,5 kg	B-71, B-70 / Z-71, Z-70
2106433/6/...	CUT-II-8 LED 48	8 m	2x48 W	2x55 W	700 mA	5 000 K	2x8 650 lm	2x6 750 lm	122 lm/W	83,5 kg	B-71, B-70 / Z-71, Z-70
2106435/1/...	CUT-II-8 LED 72	8 m	2x72 W	2x79 W	1 000 mA	2 700 K	2x9 450 lm	2x7 400 lm	94 lm/W	83,5 kg	B-71, B-70 / Z-71, Z-70
2106435/3/...	CUT-II-8 LED 72	8 m	2x72 W	2x79 W	1 000 mA	3 500 K	2x9 900 lm	2x7 750 lm	98 lm/W	83,5 kg	B-71, B-70 / Z-71, Z-70
2106435/4/...	CUT-II-8 LED 72	8 m	2x72 W	2x79 W	1 000 mA	4 000 K	2x11 650 lm	2x9 150 lm	116 lm/W	83,5 kg	B-71, B-70 / Z-71, Z-70
2106435/6/...	CUT-II-8 LED 72	8 m	2x72 W	2x79 W	1 000 mA	5 000 K	2x11 650 lm	2x9 150 lm	116 lm/W	83,5 kg	B-71, B-70 / Z-71, Z-70

LED garnitúra
STICK I LED



Lighting example



Bicycle and pedestrian path
STICK LED 24 W, T3 optics

Parameters:
H – lighting sets height: 5 m
W – pole spacing: 27 m
S – road width: 5 m

Lighting class P3

Application: residential streets, office building precincts, parks, pedestrian walkways

Ingress protection: IP 66 for the optical part and the driver

Material: anodised aluminium profiles

Colour: gray / inox

Optical system: PMMA optics, interchangeable LED module

Number of LEDs: 12 (for 24 W), 24 (for 48 W)

Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

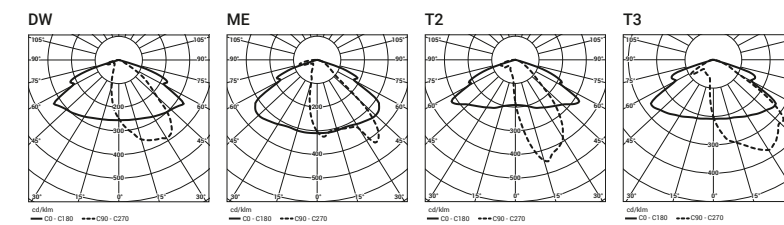
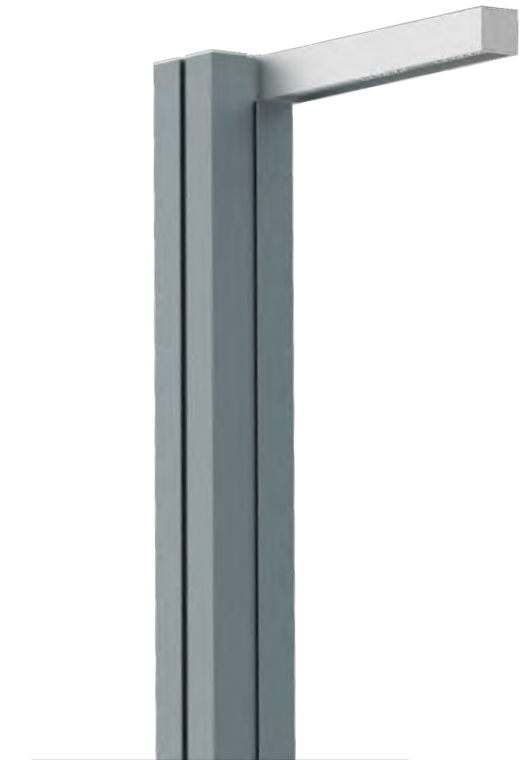
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 1,1 m³

Input voltage frequency: 50/60 Hz

Power factor: ≥ 0,95

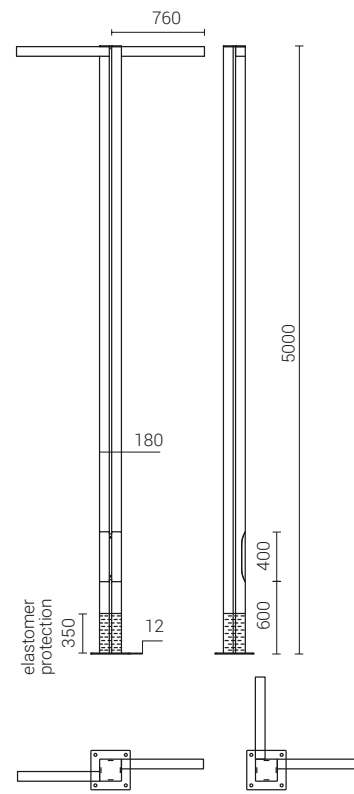
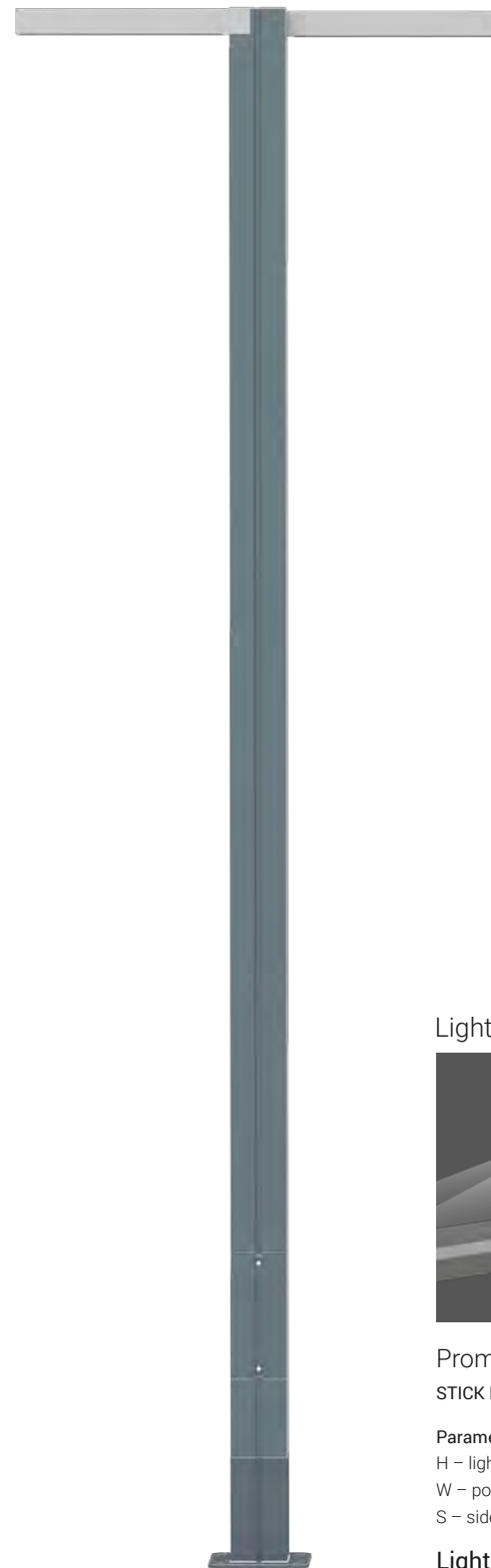
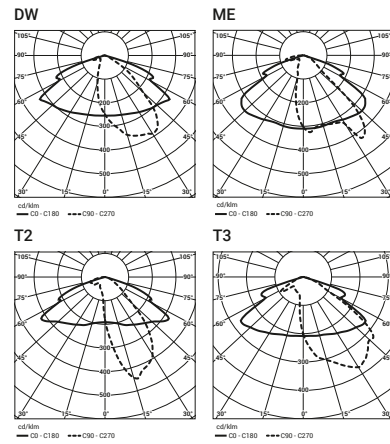
Lighting set STICK I LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10 V).



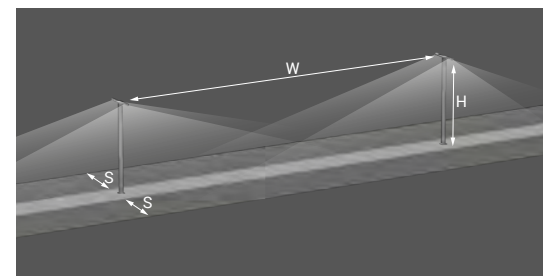
Code	Name	Height	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
217030/1/...	STICK LED 24	5 m	24 W	28 W	700 mA	2 700 K	3 600 lm	2 900 lm	104 lm/W	59 kg	B-60 / Z-60
217030/3/...	STICK LED 24	5 m	24 W	28 W	700 mA	3 500 K	3 700 lm	3 000 lm	107 lm/W	59 kg	B-60 / Z-60
217030/4/...	STICK LED 24	5 m	24 W	28 W	700 mA	4 000 K	4 350 lm	3 500 lm	125 lm/W	59 kg	B-60 / Z-60
217030/6/...	STICK LED 24	5 m	24 W	28 W	700 mA	5 000 K	4 350 lm	3 500 lm	125 lm/W	59 kg	B-60 / Z-60
217033/1/...	STICK LED 48	5 m	48 W	55 W	700 mA	2 700 K	7 050 lm	5 700 lm	104 lm/W	59 kg	B-60 / Z-60
217033/3/...	STICK LED 48	5 m	48 W	55 W	700 mA	3 500 K	7 350 lm	5 950 lm	108 lm/W	59 kg	B-60 / Z-60
217033/4/...	STICK LED 48	5 m	48 W	55 W	700 mA	4 000 K	8 650 lm	6 950 lm	126 lm/W	59 kg	B-60 / Z-60
217033/6/...	STICK LED 48	5 m	48 W	55 W	700 mA	5 000 K	8 650 lm	6 950 lm	126 lm/W	59 kg	B-60 / Z-60

/... Symbol of selected optical system

STICK II LED



Lighting example



Promenade

STICK II LED 24 W, T2 optics

Parameters:

H – lighting sets height: 5 m
 W – pole spacing: 19 m
 S – sidewalk width: 3,5 m

Lighting class C3

Application: residential streets, office building precincts, parks, pedestrian walkways, parking

Ingress protection: IP 66 for the optical part and the driver

Material: anodised aluminium profiles

Colour: gray / inox

Optical system: PMMA optics, interchangeable LED module

Number of LEDs: 2x12 (for 24 W), 2x24 (for 48 W)

Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 1,1 m³

Input voltage frequency: 50/60 Hz

Power factor: ≥ 0,95

Lighting set STICK II LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



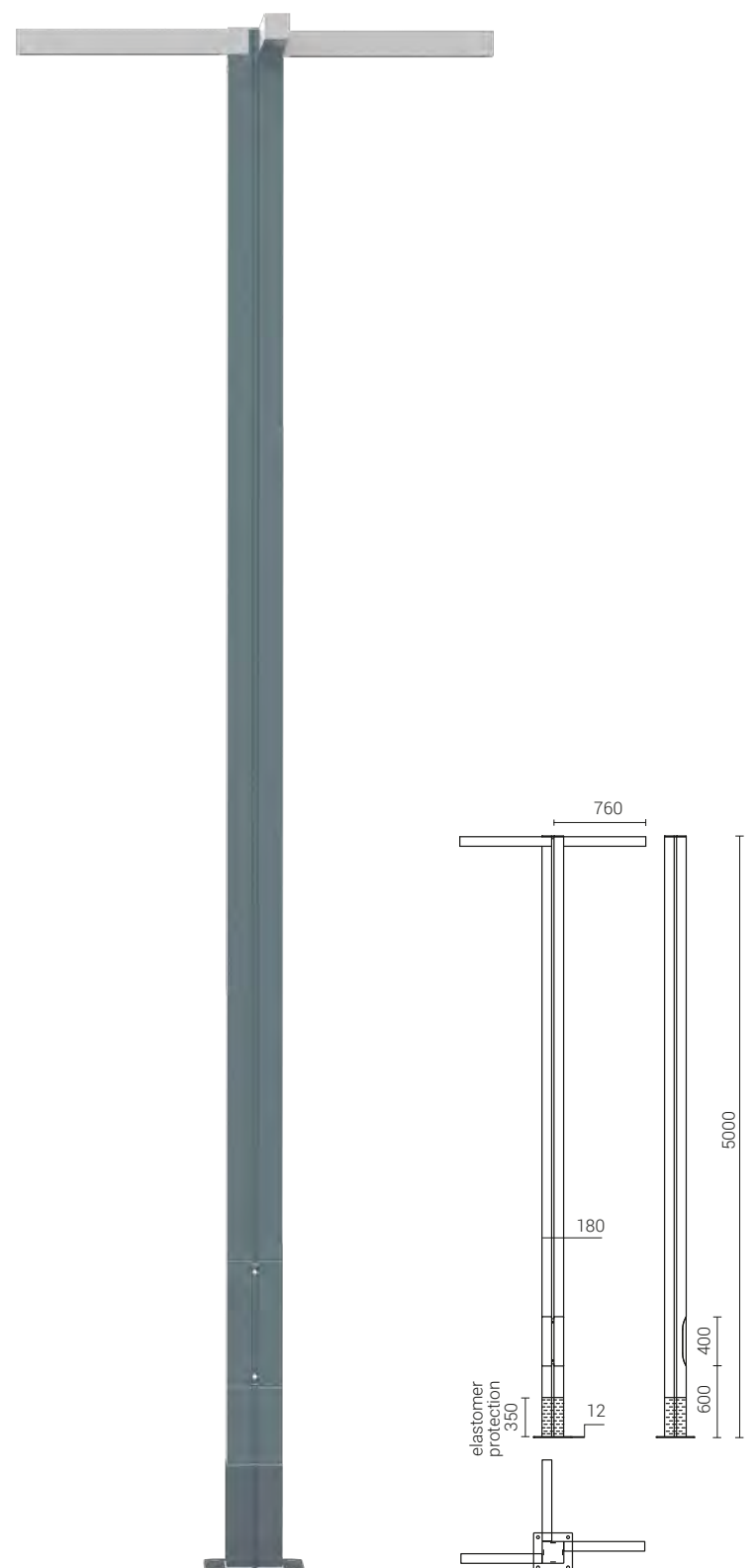
Code	Name	Height	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
217130/1/...	STICK II LED 2x24	5 m	2x24 W	2x28 W	700 mA	2 700 K	2x3 600 lm	2x2 900 lm	104 lm/W	62 kg	B-60 / Z-60
217130/3/...	STICK II LED 2x24	5 m	2x24 W	2x28 W	700 mA	3 500 K	2x3 700 lm	2x3 000 lm	107 lm/W	62 kg	B-60 / Z-60
217130/4/...	STICK II LED 2x24	5 m	2x24 W	3x28 W	700 mA	4 000 K	2x4 350 lm	2x3 500 lm	125 lm/W	62 kg	B-60 / Z-60
217130/6/...	STICK II LED 2x24	5 m	2x24 W	4x28 W	700 mA	5 000 K	2x4 350 lm	2x3 500 lm	125 lm/W	62 kg	B-60 / Z-60
217133/1/...	STICK II LED 2x48	5 m	2x48 W	2x55 W	700 mA	2 700 K	2x7 050 lm	2x5 700 lm	104 lm/W	62 kg	B-60 / Z-60
217133/3/...	STICK II LED 2x48	5 m	2x48 W	2x55 W	700 mA	3 500 K	2x7 350 lm	2x5 950 lm	108 lm/W	62 kg	B-60 / Z-60
217133/4/...	STICK II LED 2x48	5 m	2x48 W	2x55 W	700 mA	4 000 K	2x8 650 lm	2x6 950 lm	126 lm/W	62 kg	B-60 / Z-60
217133/6/...	STICK II LED 2x48	5 m	2x48 W	2x55 W	700 mA	5 000 K	2x8 650 lm	2x6 950 lm	126 lm/W	62 kg	B-60 / Z-60
217230/1/...	STICK II LED 90° 2x24	5 m	2x24 W	2x28 W	700 mA	2 700 K	2x3 600 lm	2x2 900 lm	104 lm/W	62 kg	B-60 / Z-60
217230/3/...	STICK II LED 90° 2x24	5 m	2x24 W	2x28 W	700 mA	3 500 K	2x3 700 lm	2x3 000 lm	107 lm/W	62 kg	B-60 / Z-60
217230/4/...	STICK II LED 90° 2x24	5 m	2x24 W	2x28 W	700 mA	4 000 K	2x4 350 lm	2x3 500 lm	125 lm/W	62 kg	B-60 / Z-60
217230/6/...	STICK II LED 90° 2x24	5 m	2x24 W	2x28 W	700 mA	5 000 K	2x4 350 lm	2x3 500 lm	125 lm/W	62 kg	B-60 / Z-60
217233/1/...	STICK II LED 90° 2x48	5 m	2x48 W	2x55 W	700 mA	2 700 K	2x7 050 lm	2x5 700 lm	104 lm/W	62 kg	B-60 / Z-60
217233/3/...	STICK II LED 90° 2x48	5 m	2x48 W	2x55 W	700 mA	3 500 K	2x7 350 lm	2x5 950 lm	108 lm/W	62 kg	B-60 / Z-60
217233/4/...	STICK II LED 90° 2x48	5 m	2x48 W	2x55 W	700 mA	4 000 K	2x8 650 lm	2x6 950 lm	126 lm/W	62 kg	B-60 / Z-60
217233/6/...	STICK II LED 90° 2x48	5 m	2x48 W	2x55 W	700 mA	5 000 K	2x8 650 lm	2x6 950 lm	126 lm/W	62 kg	B-60 / Z-60
217330/1/...	STICK II LED 180° 2x24	5 m	2x24 W	2x28 W	700 mA	2 700 K	2x3 600 lm	2x2 900 lm	104 lm/W	62 kg	B-60 / Z-60
217330/3/...	STICK II LED 180° 2x24	5 m	2x24 W	2x28 W	700 mA	3 500 K	2x3 700 lm	2x3 000 lm	107 lm/W	62 kg	B-60 / Z-60
217330/4/...	STICK II LED 180° 2x24	5 m	2x24 W	2x28 W	700 mA	4 000 K	2x4 350 lm	2x3 500 lm	125 lm/W	62 kg	B-60 / Z-60
217330/6/...	STICK II LED 180° 2x24	5 m	2x24 W	2x28 W	700 mA	5 000 K	2x4 350 lm	2x3 500 lm	125 lm/W	62 kg	B-60 / Z-60
217333/1/...	STICK II LED 180° 2x48	5 m	2x48 W	2x55 W	700 mA	2 700 K	2x7 050 lm	2x5 700 lm	104 lm/W	62 kg	B-60 / Z-60
217333/3/...	STICK II LED 180° 2x48	5 m	2x48 W	2x55 W	700 mA	3 500 K	2x7 350 lm	2x5 950 lm	108 lm/W	62 kg	B-60 / Z-60
217333/4/...	STICK II LED 180° 2x48	5 m	2x48 W	2x55 W	700 mA	4 000 K	2x8 650 lm	2x6 950 lm	126 lm/W	62 kg	B-60 / Z-60
217333/6/...	STICK II LED 180° 2x48	5 m	2x48 W	2x55 W	700 mA	5 000 K	2x8 650 lm	2x6 950 lm	126 lm/W	62 kg	B-60 / Z-60

/... Symbol of selected optical system

LED garntúra
STICK III LED

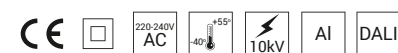
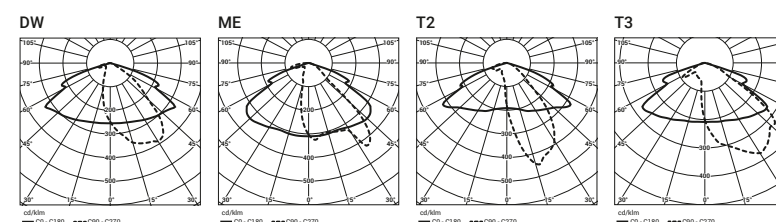


Radom, Poland



Application: residential streets, office building precincts, parks, pedestrian walkways, parking
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium profiles
Colour: gray / inox
Optical system: PMMA optics, interchangeable LED module
Number of LEDs: 3x12 (for 24 W), 3x24 (for 48 W),
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 1,1 m³
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95

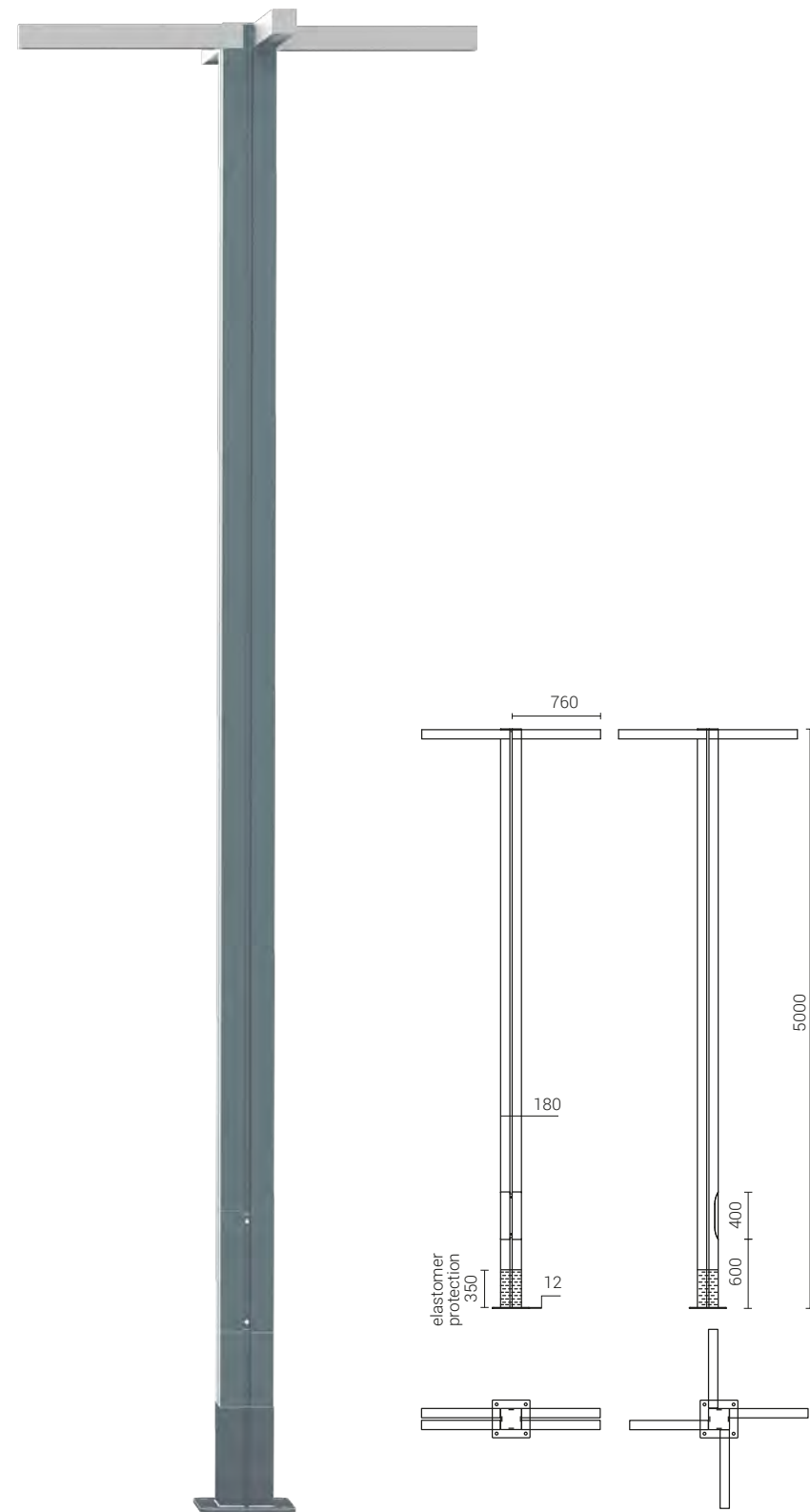
Lighting set STICK III LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1- 10V).



Code	Name	Height	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
217430/1/...	STICK III LED 4x24	5 m	3x24 W	3x28 W	700 mA	2 700 K	3x3 600 lm	3x2 900 lm	104 lm/W	65 kg	B-60 / Z-60
217430/3/...	STICK III LED 4x24	5 m	3x24 W	3x28 W	700 mA	3 500 K	3x3 700 lm	3x3 000 lm	107 lm/W	65 kg	B-60 / Z-60
217430/4/...	STICK III LED 4x24	5 m	3x24 W	3x28 W	700 mA	4 000 K	3x4 350 lm	3x3 500 lm	125 lm/W	65 kg	B-60 / Z-60
217430/6/...	STICK III LED 4x24	5 m	3x24 W	3x28 W	700 mA	5 000 K	3x4 350 lm	3x3 500 lm	125 lm/W	65 kg	B-60 / Z-60
217433/1/...	STICK III LED 3x48	5 m	3x48 W	3x55 W	700 mA	2 700 K	3x7 050 lm	3x5 700 lm	104 lm/W	65 kg	B-60 / Z-60
217433/3/...	STICK III LED 3x48	5 m	3x48 W	3x55 W	700 mA	3 500 K	3x7350 lm	3x5 950 lm	108 lm/W	65 kg	B-60 / Z-60
217433/4/...	STICK III LED 3x48	5 m	3x48 W	3x55 W	700 mA	4 000 K	3x8 650 lm	3x6 950 lm	126 lm/W	65 kg	B-60 / Z-60
217433/6/...	STICK III LED 3x48	5 m	3x48 W	3x55 W	700 mA	5 000 K	3x8 650 lm	3x6 950 lm	126 lm/W	65 kg	B-60 / Z-60

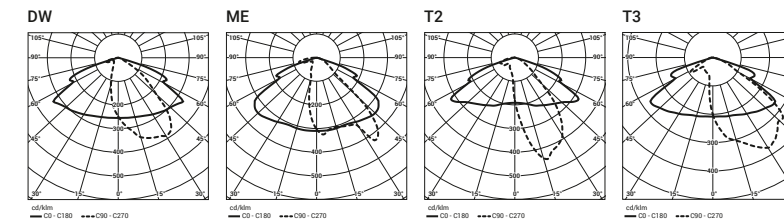
/... Symbol of selected optical system

LED garnitúra
STICK IV LED



Application: residential streets, office building precincts, parks, pedestrian walkways, parking
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium profiles
Colour: gray / inox
Optical system: PMMA optics, interchangeable LED module
Number of LEDs: 4x12 (for 24 W), 4x24 (for 48 W)
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 1,1 m³
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95

Lighting set STICK IV LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



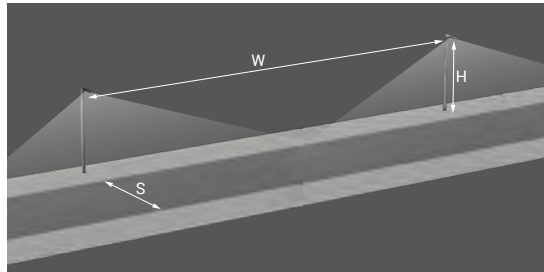
Code	Name	Height	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
217630/1/...	STICK IV LED 4x24	5 m	4x24 W	4x28 W	700 mA	2 700 K	4x3 600 lm	4x2 900 lm	104 lm/W	68 kg	B-60 / Z-60
217630/3/...	STICK IV LED 4x24	5 m	4x24 W	4x28 W	700 mA	3 500 K	4x3 700 lm	4x3 000 lm	107 lm/W	68 kg	B-60 / Z-60
217630/4/...	STICK IV LED 4x24	5 m	4x24 W	4x28 W	700 mA	4 000 K	4x4 350 lm	4x3 500 lm	125 lm/W	68 kg	B-60 / Z-60
217630/6/...	STICK IV LED 4x24	5 m	4x24 W	4x28 W	700 mA	5 000 K	4x4 350 lm	4x3 500 lm	125 lm/W	68 kg	B-60 / Z-60
217633/1/...	STICK IV LED 4x48	5 m	4x48 W	4x55 W	700 mA	2 700 K	4x7 050 lm	4x5 700 lm	104 lm/W	68 kg	B-60 / Z-60
217633/3/...	STICK IV LED 4x48	5 m	4x48 W	4x55 W	700 mA	3 500 K	4x7 350 lm	4x5 950 lm	108 lm/W	68 kg	B-60 / Z-60
217633/4/...	STICK IV LED 4x48	5 m	4x48 W	4x55 W	700 mA	4 000 K	4x8 650 lm	4x6 950 lm	126 lm/W	68 kg	B-60 / Z-60
217633/6/...	STICK IV LED 4x48	5 m	4x48 W	4x55 W	700 mA	5 000 K	4x8 650 lm	4x6 950 lm	126 lm/W	68 kg	B-60 / Z-60
217730/1/...	STICK IV LED 90° 4x24	5 m	4x24 W	4x28 W	700 mA	2 700 K	4x3 600 lm	4x2 900 lm	104 lm/W	68 kg	B-60 / Z-60
217730/3/...	STICK IV LED 90° 4x24	5 m	4x24 W	4x28 W	700 mA	3 500 K	4x3 700 lm	4x3 000 lm	107 lm/W	68 kg	B-60 / Z-60
217730/4/...	STICK IV LED 90° 4x24	5 m	4x24 W	4x28 W	700 mA	4 000 K	4x4 350 lm	4x3 500 lm	125 lm/W	68 kg	B-60 / Z-60
217730/6/...	STICK IV LED 90° 4x24	5 m	4x24 W	4x28 W	700 mA	5 000 K	4x4 350 lm	4x3 500 lm	125 lm/W	68 kg	B-60 / Z-60
217733/1/...	STICK IV LED 90° 4x48	5 m	4x48 W	4x55 W	700 mA	2 700 K	4x7 050 lm	4x5 700 lm	104 lm/W	68 kg	B-60 / Z-60
217733/3/...	STICK IV LED 90° 4x48	5 m	4x48 W	4x55 W	700 mA	3 500 K	4x7 350 lm	4x5 950 lm	108 lm/W	68 kg	B-60 / Z-60
217733/4/...	STICK IV LED 90° 4x48	5 m	4x48 W	4x55 W	700 mA	4 000 K	4x8 650 lm	4x6 950 lm	126 lm/W	68 kg	B-60 / Z-60
217733/6/...	STICK IV LED 90° 4x48	5 m	4x48 W	4x55 W	700 mA	5 000 K	4x8 650 lm	4x6 950 lm	126 lm/W	68 kg	B-60 / Z-60

/... Symbol of selected optical system

LED garnitúra

CORE LED

Lighting example



Residential street
CORE LED 48 W, DW optics

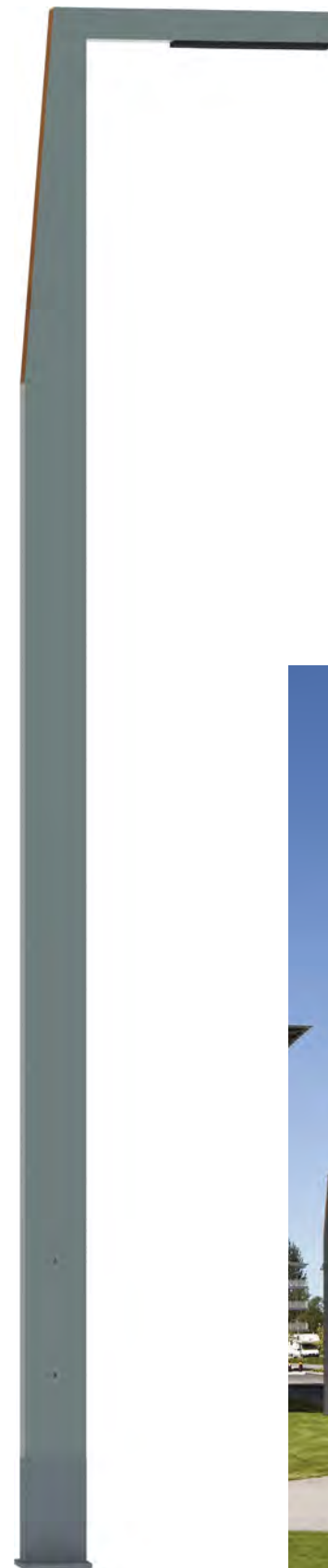
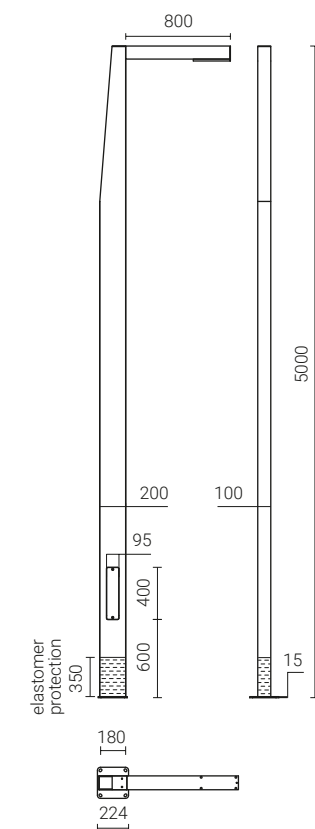
Parameters:

H – lighting sets height: 5 m

W – pole spacing: 27 m

S – road width: 6 m

Lighting class P2



Application: residential streets, office building surroundings, parks, pedestrian walkways

Ingress protection: IP 66 for the optical part and the driver

Material: anodised aluminium profiles

Colour: graphite / black

Optical system: PMMA optics, interchangeable LED module

Decorative elements: strip of exotic wood

Number of LEDs: 12 (for 24 W), 24 (for 48 W)

Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

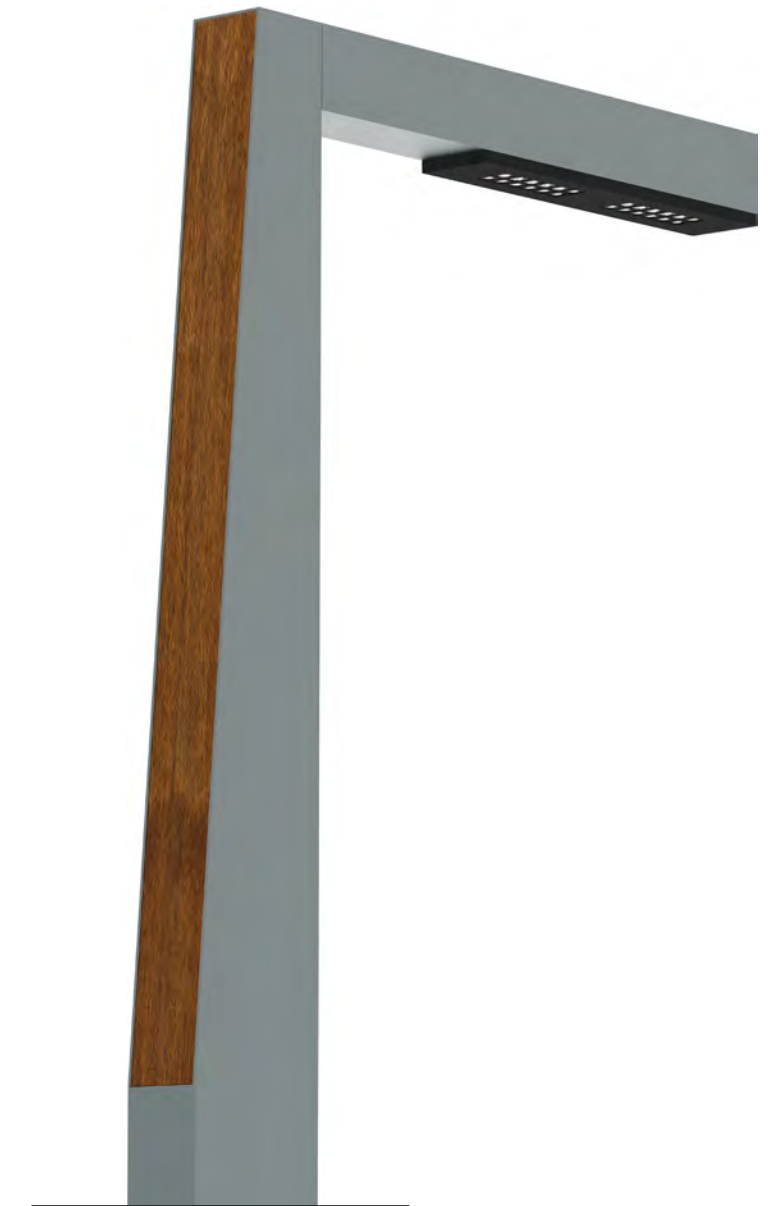
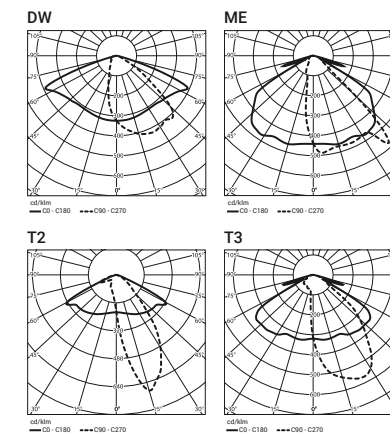
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 1,75 m³

Input voltage frequency: 50/60 Hz

Power factor: ≥ 0,95

Lighting set CORE LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10 V).



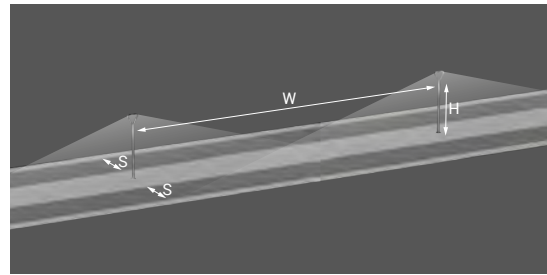
Code	Name	Height H	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
216530/1/...	CORE LED 24	5 m	24 W	28 W	700 mA	2 700 K	3 600 lm	2 650 lm	95 lm/W	42 kg	B-50 / Z-50
216530/3/...	CORE LED 24	5 m	24 W	28 W	700 mA	3 500 K	3 700 lm	2 700 lm	96 lm/W	42 kg	B-50 / Z-50
216530/4/...	CORE LED 24	5 m	24 W	28 W	700 mA	4 000 K	4 350 lm	3 200 lm	114 lm/W	42 kg	B-50 / Z-50
216530/6/...	CORE LED 24	5 m	24 W	28 W	700 mA	5 000 K	4 350 lm	3 200 lm	114 lm/W	42 kg	B-50 / Z-50
216533/1/...	CORE LED 48	5 m	48 W	55 W	700 mA	2 700 K	7 050 lm	5 150 lm	94 lm/W	42 kg	B-50 / Z-50
216533/3/...	CORE LED 48	5 m	48 W	55 W	700 mA	3 500 K	7 350 lm	5 350 lm	97 lm/W	42 kg	B-50 / Z-50
216533/4/...	CORE LED 48	5 m	48 W	55 W	700 mA	4 000 K	8 650 lm	6 300 lm	115 lm/W	42 kg	B-50 / Z-50
216533/6/...	CORE LED 48	5 m	48 W	55 W	700 mA	5 000 K	8 650 lm	6 300 lm	115 lm/W	42 kg	B-50 / Z-50

/... Symbol of selected optical system

LEDb garnitúra

FLEXI LED

Megvilágítási példa



Bicycle and pedestrian path

FLEXI LED 24 W

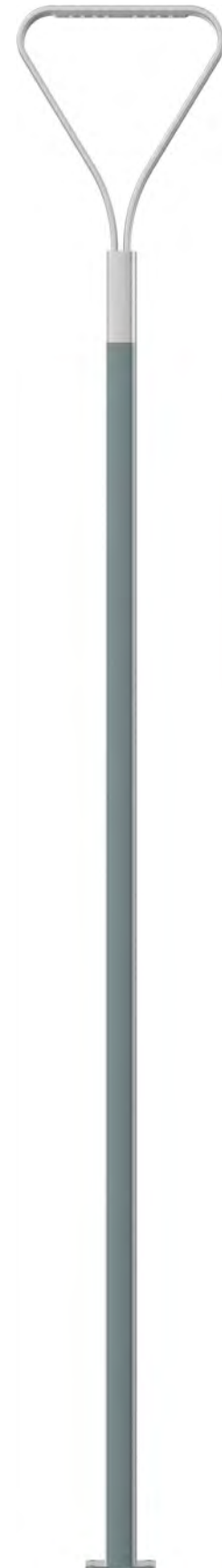
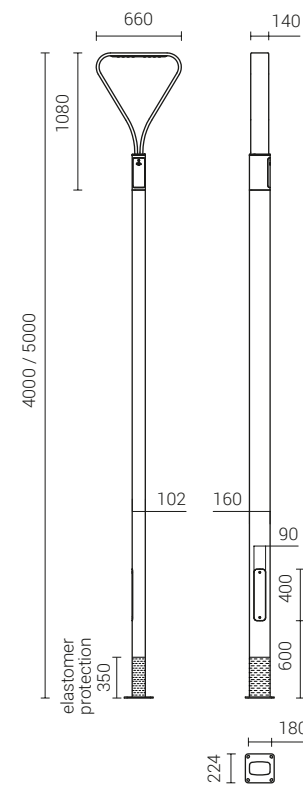
Parameters:

H – lighting sets height: 4 m

W – pole spacing: 22 m

S – sidewalk width: 4 m

Lighting class P3



Tychy, Poland



Application: office building precincts, parks, pedestrian walkways

Ingress protection: IP 66 for the optical part and the driver

Material: anodised aluminium profiles

Colour: inox / graphite

Optical system: PMMA optics

Number of LEDs: 8 (for 24 W), 16 (for 48 W)

Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

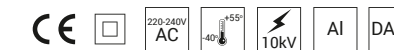
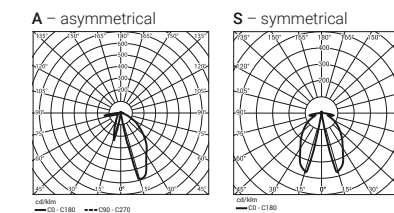
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 0,6 m³ (for 24 W), 0,75 m³ (for 48 W)

Input voltage frequency: 50/60 Hz

Power factor: ≥ 0,95

Lighting set FLEXI LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10 V).

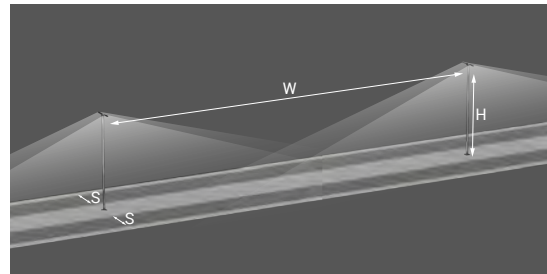


Code	Name	Height	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
215530/1/A	FLEXI LED 24	4 m	24 W	28 W	1 000 mA	2 700 K	3 300 lm	2 250 lm	80 lm/W	29 kg	B-50 / Z-50
215530/1/S	FLEXI LED 24	4 m	24 W	28 W	1 000 mA	2 700 K	3 300 lm	2 400 lm	86 lm/W	29 kg	B-50 / Z-50
215530/3/A	FLEXI LED 24	4 m	24 W	28 W	1 000 mA	3 500 K	3 450 lm	2 350 lm	84 lm/W	29 kg	B-50 / Z-50
215530/3/S	FLEXI LED 24	4 m	24 W	28 W	1 000 mA	3 500 K	3 450 lm	2 500 lm	89 lm/W	29 kg	B-50 / Z-50
215530/4/A	FLEXI LED 24	4 m	24 W	28 W	1 000 mA	4 000 K	3 900 lm	2 650 lm	95 lm/W	29 kg	B-50 / Z-50
215530/4/S	FLEXI LED 24	4 m	24 W	28 W	1 000 mA	4 000 K	3 900 lm	2 850 lm	102 lm/W	29 kg	B-50 / Z-50
215530/6/A	FLEXI LED 24	4 m	24 W	28 W	1 000 mA	5 000 K	3 900 lm	2 650 lm	95 lm/W	29 kg	B-50 / Z-50
215530/6/S	FLEXI LED 24	4 m	24 W	28 W	1 000 mA	5 000 K	3 900 lm	2 850 lm	102 lm/W	29 kg	B-50 / Z-50
215533/1/A	FLEXI LED 48	5 m	48 W	55 W	1 000 mA	2 700 K	6 600 lm	4 500 lm	82 lm/W	32 kg	B-50 / Z-50
215533/1/S	FLEXI LED 48	5 m	48 W	55 W	1 000 mA	2 700 K	6 600 lm	4 800 lm	87 lm/W	32 kg	B-50 / Z-50
215533/3/A	FLEXI LED 48	5 m	48 W	55 W	1 000 mA	3 500 K	6 900 lm	4 700 lm	85 lm/W	32 kg	B-50 / Z-50
215533/3/S	FLEXI LED 48	5 m	48 W	55 W	1 000 mA	3 500 K	6 900 lm	5 050 lm	92 lm/W	32 kg	B-50 / Z-50
215533/4/A	FLEXI LED 48	5 m	48 W	55 W	1 000 mA	4 000 K	7 800 lm	5 300 lm	96 lm/W	32 kg	B-50 / Z-50
215533/4/S	FLEXI LED 48	5 m	48 W	55 W	1 000 mA	4 000 K	7 800 lm	5 700 lm	104 lm/W	32 kg	B-50 / Z-50
215533/6/A	FLEXI LED 48	5 m	48 W	55 W	1 000 mA	5 000 K	7 800 lm	5 300 lm	96 lm/W	32 kg	B-50 / Z-50
215533/6/S	FLEXI LED 48	5 m	48 W	55 W	1 000 mA	5 000 K	7 800 lm	5 700 lm	104 lm/W	32 kg	B-50 / Z-50

LED garniturák

GULLWING LED

Lighting example



Urban road

GULLWING LED 2x72 W, T3 optics

Parameters:

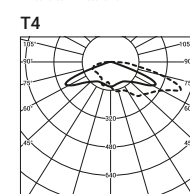
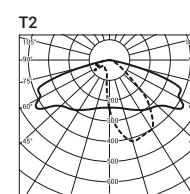
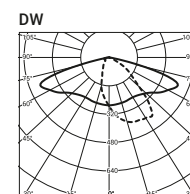
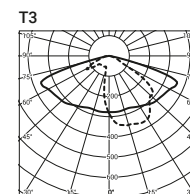
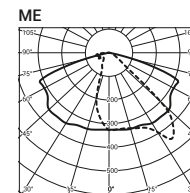
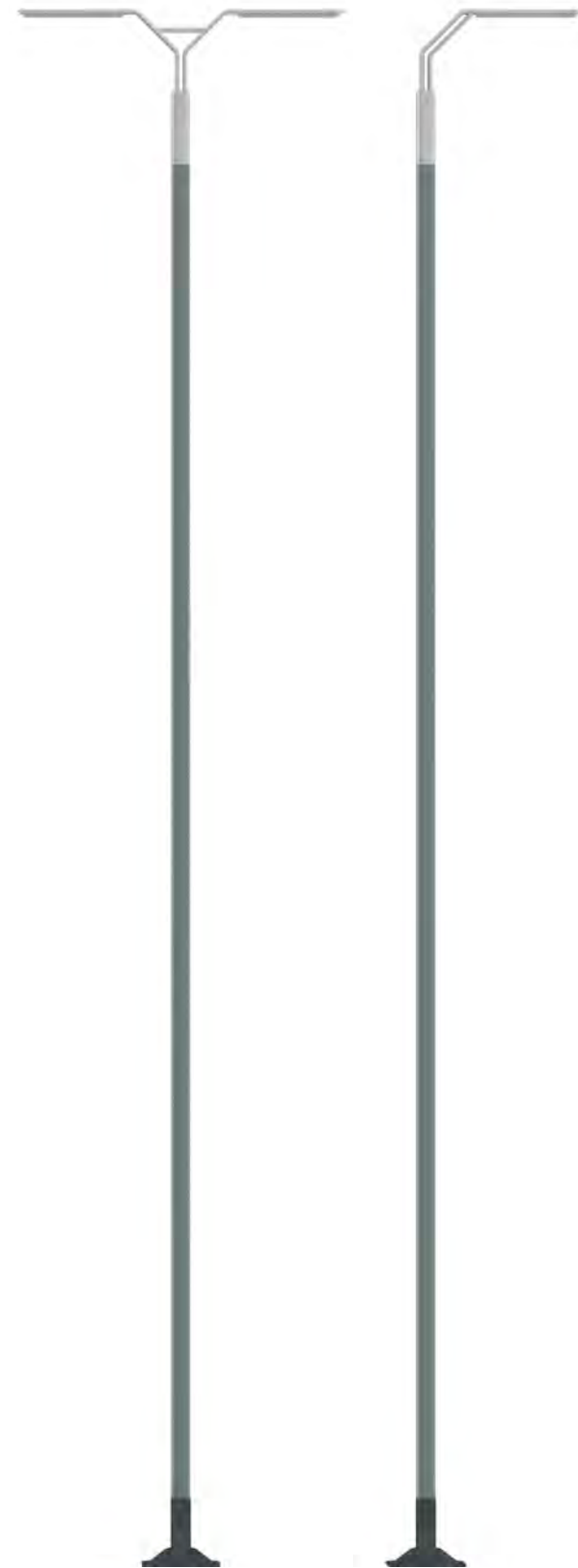
H – lighting sets height: 8 m

W – pole spacing: 35 m

S – road width: 7 m (green belt 2,5 m)

Lighting class M3

Goczałkowice Zdrój, Poland



cd/Mlx
— C0-C180 ••• C180-C270

Application: city roads, expressways and motorways

Ingress protection: IP 66 for the optical part and the driver

Material: anodised aluminium profiles

Colour: grafitowy / inox

Optical system: PMMA optics, interchangeable LED module

Number of LEDs: 24 (for 72 W), 2x24 (for 2x72 W)

Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

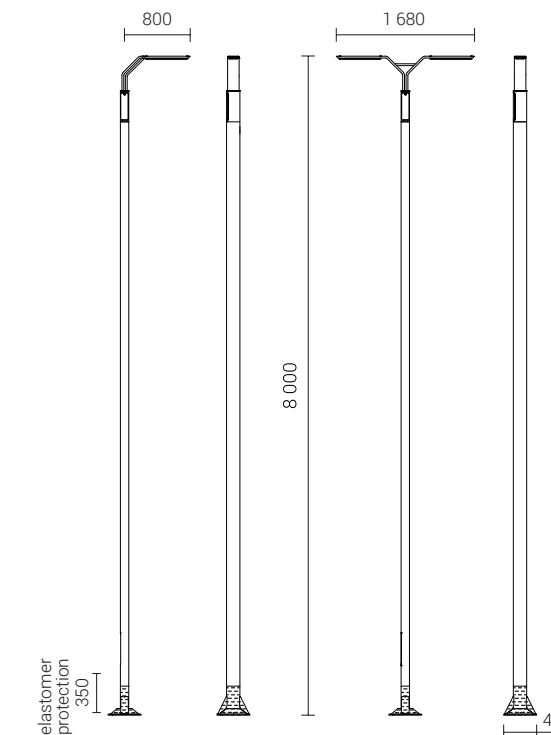
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 3,20 m³ (for 72 W), 3,52 m³ (for 2x72 W)

Input voltage frequency: 50/60 Hz

Power factor: ≥ 0,95

Lighting set GULLWING LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



Code	Name	Height H	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
218135/1/...	GULLWING I LED 1x72	8 m	72 W	79 W	1 000 mA	2 700 K	9 450 lm	8 650 lm	110 lm/W	54 kg	B-70 / Z-70
218135/3/...	GULLWING I LED 1x72	8 m	72 W	79 W	1 000 mA	3 500 K	9 900 lm	9 100 lm	115 lm/W	54 kg	B-70 / Z-70
218135/4/...	GULLWING I LED 1x72	8 m	72 W	79 W	1 000 mA	4 000 K	11 450 lm	10 450 lm	132 lm/W	54 kg	B-70 / Z-70
218135/6/...	GULLWING I LED 1x72	8 m	72 W	79 W	1 000 mA	5 000 K	11 450 lm	10 450 lm	132 lm/W	54 kg	B-70 / Z-70
218035/1/...	GULLWING II LED 2x72	8 m	2x72 W	2x79 W	1 000 mA	2 700 K	2x9 450 lm	2x8 650 lm	110 lm/W	57 kg	B-70 / Z-70
218035/3/...	GULLWING II LED 2x72	8 m	2x72 W	2x79 W	1 000 mA	3 500 K	2x9 900 lm	2x9 100 lm	115 lm/W	57 kg	B-70 / Z-70
218035/4/...	GULLWING II LED 2x72	8 m	2x72 W	2x79 W	1 000 mA	4 000 K	2x11 450 lm	2x10 450 lm	132 lm/W	57 kg	B-70 / Z-70
218035/6/...	GULLWING II LED 2x72	8 m	2x72 W	2x79 W	1 000 mA	5 000 K	2x11 450 lm	2x10 450 lm	132 lm/W	57 kg	B-70 / Z-70

/... Symbol of selected optical system



LED garnitúrák

EDGE LED

ROSA EDGE series features modern edge lighting system. Introduced edge lighting technology is widely used in the display construction such as monitors, televisions, tablet screens etc.

Edge lighting in this series is the introduction of light wave to the edge of the light elements, which scatter light outside. With the light source turned off these elements are crystal clear, and during operation the light is uniformly diffused over the entire surface. Light diffusing effect is achieved by unique combination of PMMA produced by a renowned company EVONIK, which provides durability and high light transmission rate.

Used in ROSA EDGE series lighting elements in the form of LEDs are not directly visible and relatively large (several hundred times larger than the light source) light emitting surface minimize the glare. As a light source in these structures are high-performance modules with LEDs of warm white colour temperature 3500 K and neutral white – 5000 K. There is also the option of other colour variations - blue, red or green.

Elements using edge-lit technology may be used in the street columns of this series equipped with necks of cross sectional construction adapted to their assembly. As a result, light elements harmonize with the column providing aesthetic appearance. The construction of columns is unitary and durable because there is no other weakness in the column section beyond the power chord insertion holes. The application of such elements is a solution patented by ROSA.

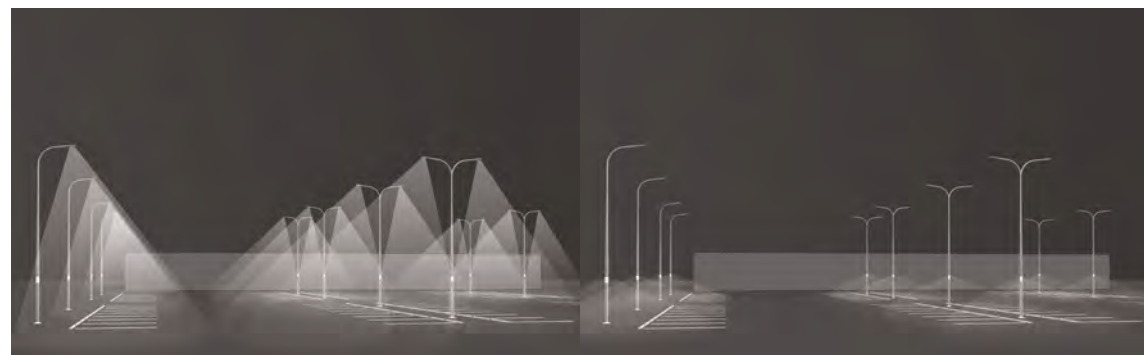
Additional illumination of sidewalks and bicycle paths



Optical guidance



Technology savings thanks to EDGE



Standard lighting

EDGE lighting



LED light source

Installed in half-ring shapes high-performance LED modules with 3500 K warm white and neutral white – 5000 K and in an alternative range of colours (blue, red, green)

Smooth design

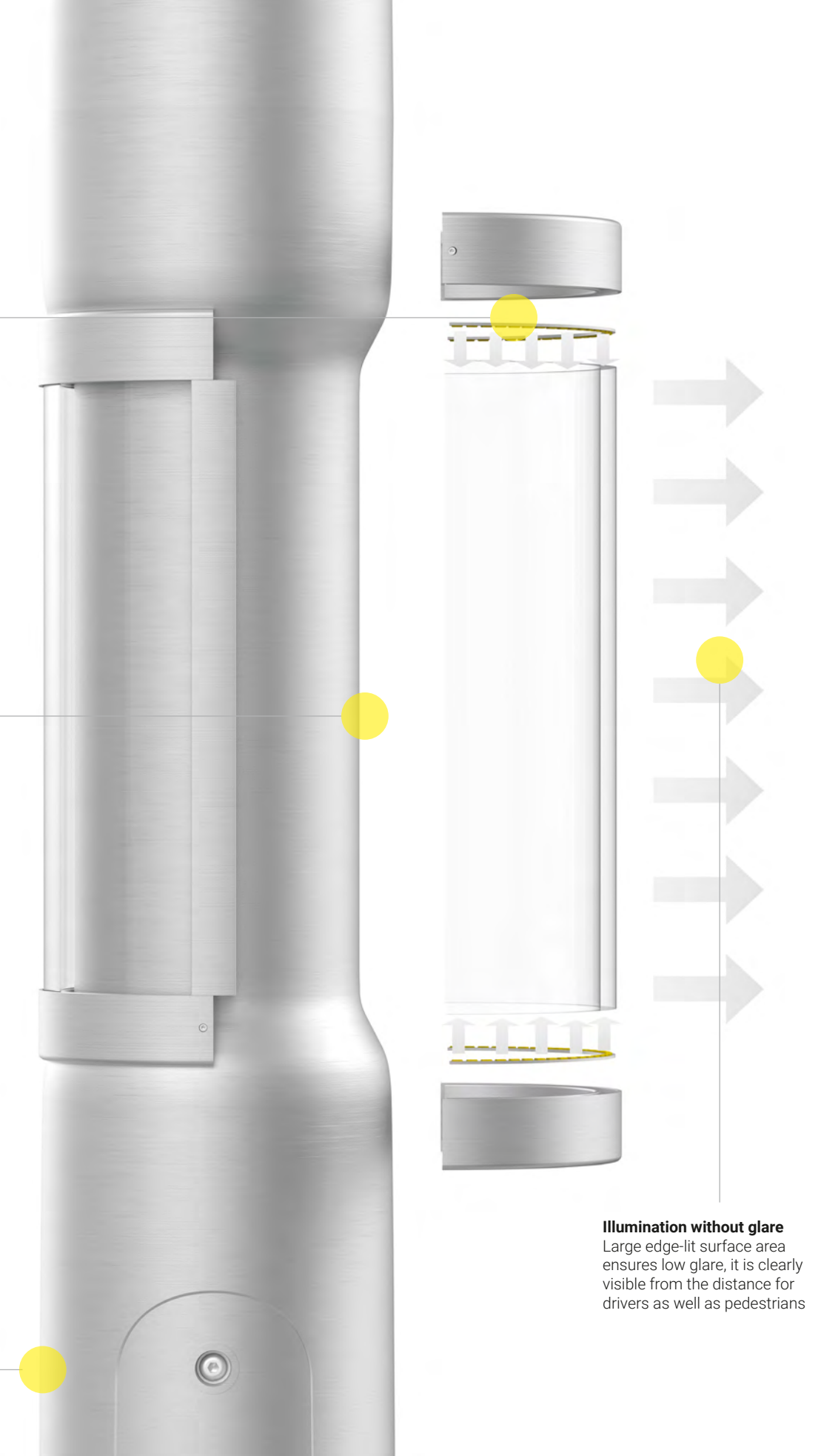
Built in the contour of the columns provides aesthetic design and solid construction

Driver Philips Xitanium

DC, high-performance driver with 7 programmable functions according to customer requirements

Programmable time profiles

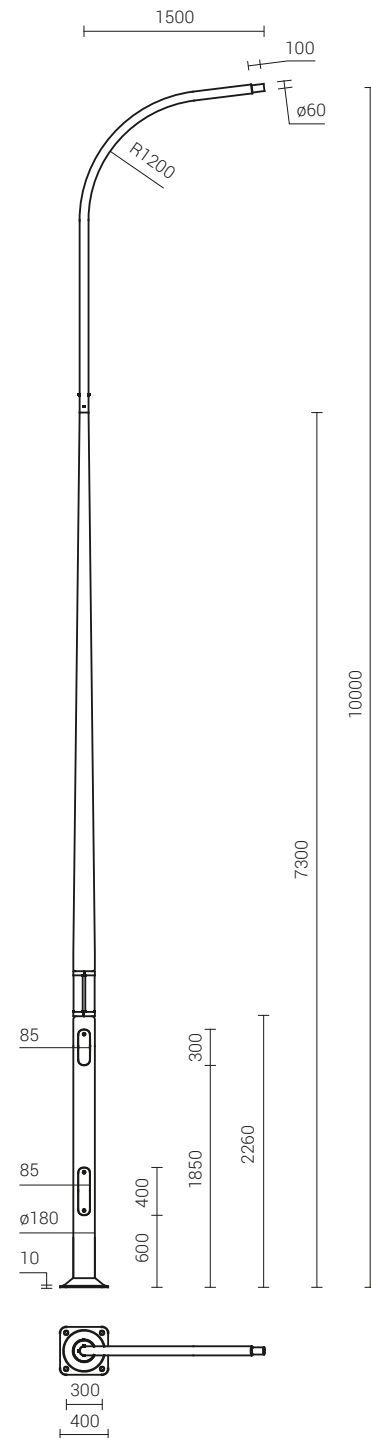
The driver function with maximum 5 power levels in the range from 10 to 100% rated power in the selected luminaire operating time



Illumination without glare

Large edge-lit surface area ensures low glare, it is clearly visible from the distance for drivers as well as pedestrians

EDGE LED



Colour 1 Colour 2

Available colours:
 R – red
 G – green
 B – blue
 6 – white 5 000 K
 3 – white 3 500 K

SAL 10 WŁN 1/1,5/2,7/5 EDGE-1
 Code: **4273127**/colour 1
 SAL 10 WŁN 1/1,5/2,7/5 EDGE-2
 Code: **4273129**/colour 1/couleur 2

EDGE-1 LED



Colour: green
 Code: **4273127/G**



Colour: blue
 Code: **4273127/B**



Colour: red
 Code: **4273127/R**

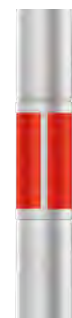
EDGE-2 LED



Colour: green
 Code: **4273129/G/G**



Colour: blue
 Code: **4273129/B/B**



Colour: red
 Code: **4273129/R/R**



Colour: green/red
 Code: **4273129/G/R**



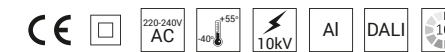
Colour: blue/red
 Code: **4273129/B/R**



Colour: white/red
 Code: **4273129/6/R**

Application: urban roads, expressways and motorways, parking lots
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium alloy
Diffuser: made of polymethyl methacrylate (PMMA)
Unit volume: 0,67 m³ (for SAL 9),
 0,74 m³ (for SAL 10),
 0,82 m³ (for SAL 11)
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95

Rymanów Zdrój, Poland



Code	Name	Height H	LED power	Luminaire power consumption	Colour temperature	Luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
4273027/3/...	SAL 9 WŁN 1/1,5/1,7/5 EDGE-1	9 m	10 W	14 W	3 500 K	1 150 lm	82 lm/W	45,3 kg	B-71 / Z-71
4273027/6/...	SAL 9 WŁN 1/1,5/1,7/5 EDGE-1	9 m	10 W	14 W	5 000 K	1 150 lm	82 lm/W	45,3 kg	B-71 / Z-71
4273127/3/...	SAL 10 WŁN 1/1,5/2,7/5 EDGE-1	10 m	10 W	14 W	3 500 K	1 150 lm	82 lm/W	47,4 kg	B-71 / Z-71
4273127/6/...	SAL 10 WŁN 1/1,5/2,7/5 EDGE-1	10 m	10 W	14 W	5 000 K	1 150 lm	82 lm/W	47,4 kg	B-71 / Z-71
4273227/3/...	SAL 11 WŁN 1/1,5/3,7/5 EDGE-1	11 m	10 W	14 W	3 500 K	1 150 lm	82 lm/W	49,5 kg	B-71 / Z-71
4273227/6/...	SAL 11 WŁN 1/1,5/3,7/5 EDGE-1	11 m	10 W	14 W	5 000 K	1 150 lm	82 lm/W	49,5 kg	B-71 / Z-71
4273029/3/...	SAL 9 WŁN 1/1,5/1,7/5 EDGE-2	9 m	20 W	26 W	3 500 K	2 350 lm	90 lm/W	45,3 kg	B-71 / Z-71
4273029/6/...	SAL 9 WŁN 1/1,5/1,7/5 EDGE-2	9 m	20 W	26 W	5 000 K	2 350 lm	90 lm/W	45,3 kg	B-71 / Z-71
4273129/3/...	SAL 10 WŁN 1/1,5/2,7/5 EDGE-2	10 m	20 W	26 W	3 500 K	2 350 lm	90 lm/W	47,4 kg	B-71 / Z-71
4273129/6/...	SAL 10 WŁN 1/1,5/2,7/5 EDGE-2	10 m	20 W	26 W	5 000 K	2 350 lm	90 lm/W	47,4 kg	B-71 / Z-71
4273229/3/...	SAL 11 WŁN 1/1,5/3,7/5 EDGE-2	11 m	20 W	26 W	3 500 K	2 350 lm	90 lm/W	49,5 kg	B-71 / Z-71
4273229/6/...	SAL 11 WŁN 1/1,5/3,7/5 EDGE-2	11 m	20 W	26 W	5 000 K	2 350 lm	90 lm/W	49,5 kg	B-71 / Z-71

Lighting columns LED

KARIN LED EV

2w1 LED LIGHTING EV CHARGING STATION

Smart column, light and charges

The Karin EV column is combination of compact lighting bollard with the functionality of an intelligent charging system for electric vehicles. Depending on the configuration, power of the charging point can be from 3.7 to 22 kW. The charging point is charged via a special mobile phone application that connects the user to the station and the operators system.

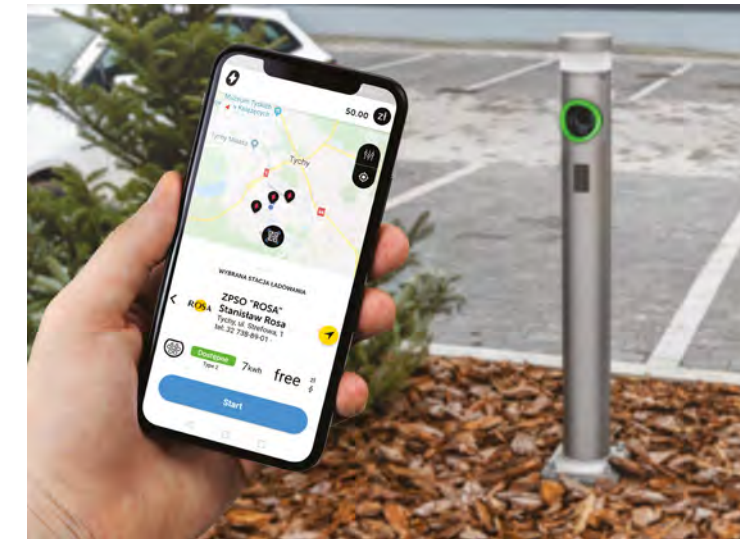
Innovative LED luminaire

The column is equipped with an efficient LED luminaire, controlled by an astronomical clock, enabling programming of various lighting scenarios and maintaining power supply continuity to the whole column.



Universality

The charging system is supported by open charge point protocol (OCPP), which means charging stations can be connected to most management systems available on the market, dedicated to the public infrastructure of electric vehicle chargers. depending on the needs, communication with the management system can take place via an ethernet wifi network or network of mobile operators (2G, 3G or LTE). Built-in RGB module around the charging socket allows signaling current status of the charger.



Modern and decorative design

The Karin EV column body is made of anodised aluminum, which ensures high aesthetic values, resistance to atmospheric conditions and is ecological. You can order the charging station none of 10 anodised colours.

Economic investment

Besides to aesthetic and utility benefits, additional advantage is cost saving, which would have to be incurred with separate production of lighting columns and charging stations. In the slim column body are installed all required electrical protections and electricity meter in accordance with MID directive. The Karin EV column is ideally suited to every corner of the city i.a. shopping centers, hotels, restaurants, city car parks, car rentals or private properties.



KARIN LED EV



Aluminum LED lighting columns



Electric vehicle charging point



The option of integration with a billing system

Open OCPP protocol v.1.6

Communication

4G or Ethernet

Charger status indication - RGB module

green colour - charging point is available

blue colour - charging point is occupied

red colour - charging point is inactive



Safe and intuitive charging process



RFID reader



The wiring chamber is locked with a key



Application: office building surroundings, parks, pedestrian walkways

Ingress protection: IP 65 for the optical part and the driver

Material: anodised aluminium alloy

Anodising: 10 colours, each with the option of chemical brightening

Diffuser: frosted

Number of LEDs: 8

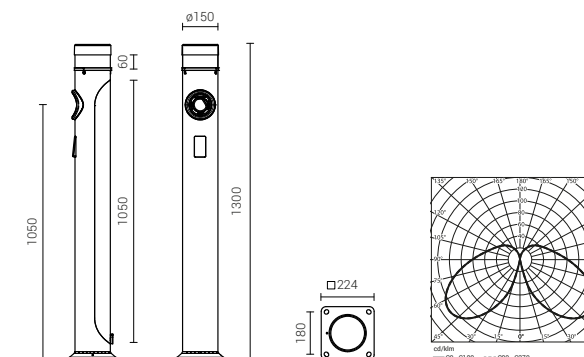
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Input voltage frequency: 50/60 Hz

Power factor: ≥ 0,9

Technical data of the charging station in the technical card available at www.rosa.pl



Code	Name	Charging point rated powers	Diffuser height	Diameter	LED power	Luminaire power consumption	LED forward current	Colour temperature	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
45400/1/03/B/C...	KARIN LED EV 3,7 BASIC	3,7 kW	60 mm	150 mm	16 W	20 W	700 mA	2 700 K	1 500 lm	75 lm/W	10,8 kg	B-50/Z-50
45400/3/03/B/C...	KARIN LED EV 3,7 BASIC	3,7 kW	60 mm	150 mm	16 W	20 W	700 mA	3 500 K	1 550 lm	78 lm/W	10,8 kg	B-50/Z-50
45400/4/03/B/C...	KARIN LED EV 3,7 BASIC	3,7 kW	60 mm	150 mm	16 W	20 W	700 mA	4 000 K	1 850 lm	93 lm/W	10,8 kg	B-50/Z-50
45400/6/03/B/C...	KARIN LED EV 3,7 BASIC	3,7 kW	60 mm	150 mm	16 W	20 W	700 mA	5 000 K	1 850 lm	93 lm/W	10,8 kg	B-50/Z-50
45400/1/07/B/C...	KARIN LED EV 7,4 BASIC	7,4 kW	60 mm	150 mm	16 W	20 W	700 mA	2 700 K	1 500 lm	75 lm/W	10,8 kg	B-50/Z-50
45400/3/07/B/C...	KARIN LED EV 7,4 BASIC	7,4 kW	60 mm	150 mm	16 W	20 W	700 mA	3 500 K	1 550 lm	78 lm/W	10,8 kg	B-50/Z-50
45400/4/07/B/C...	KARIN LED EV 7,4 BASIC	7,4 kW	60 mm	150 mm	16 W	20 W	700 mA	4 000 K	1 850 lm	93 lm/W	10,8 kg	B-50/Z-50
45400/6/07/B/C...	KARIN LED EV 7,4 BASIC	7,4 kW	60 mm	150 mm	16 W	20 W	700 mA	5 000 K	1 850 lm	93 lm/W	10,8 kg	B-50/Z-50
45400/1/03/C...	KARIN LED EV 3,7	3,7 kW	60 mm	150 mm	16 W	20 W	700mA	2 700 K	1 500 lm	75 lm/W	10,8 kg	B-50/Z-50
45400/3/03/C...	KARIN LED EV 3,7	3,7 kW	60 mm	150 mm	16 W	20 W	700mA	3 500 K	1 550 lm	78 lm/W	10,8 kg	B-50/Z-50
45400/4/03/C...	KARIN LED EV 3,7	3,7 kW	60 mm	150 mm	16 W	20 W	700mA	4 000 K	1 850 lm	93 lm/W	10,8 kg	B-50/Z-50
45400/6/03/C...	KARIN LED EV 3,7	3,7 kW	60 mm	150 mm	16 W	20 W	700mA	5 000 K	1 850 lm	93 lm/W	10,8 kg	B-50/Z-50
45400/1/07/C...	KARIN LED EV 7,4	7,4 kW	60 mm	150 mm	16 W	20 W	700mA	2 700 K	1 500 lm	75 lm/W	10,8 kg	B-50/Z-50
45400/3/07/C...	KARIN LED EV 7,4	7,4 kW	60 mm	150 mm	16 W	20 W	700mA	3 500 K	1 550 lm	78 lm/W	10,8 kg	B-50/Z-50
45400/4/07/C...	KARIN LED EV 7,4	7,4 kW	60 mm	150 mm	16 W	20 W	700mA	4 000 K	1 850 lm	93 lm/W	10,8 kg	B-50/Z-50
45400/6/07/C...	KARIN LED EV 7,4	7,4 kW	60 mm	150 mm	16 W	20 W	700mA	5 000 K	1 850 lm	93 lm/W	10,8 kg	B-50/Z-50
45400/1/11/C...	KARIN LED EV 11	11 kW	60 mm	150 mm	16 W	20 W	700mA	2 700 K	1 500 lm	75 lm/W	10,8 kg	B-50/Z-50
45400/3/11/C...	KARIN LED EV 11	11 kW	60 mm	150 mm	16 W	20 W	700mA	3 500 K	1 550 lm	78 lm/W	10,8 kg	B-50/Z-50
45400/4/11/C...	KARIN LED EV 11	11 kW	60 mm	150 mm	16 W	20 W	700mA	4 000 K	1 850 lm	93 lm/W	10,8 kg	B-50/Z-50
45400/6/11/C...	KARIN LED EV 11	11 kW	60 mm	150 mm	16 W	20 W	700mA	5 000 K	1 850 lm	93 lm/W	10,8 kg	B-50/Z-50
45400/1/22/C...	KARIN LED EV 22	22 kW	60 mm	150 mm	16 W	20 W	700mA	2 700 K	1 500 lm	75 lm/W	10,8 kg	B-50/Z-50
45400/3/22/C...	KARIN LED EV 22	22 kW	60 mm	150 mm	16 W	20 W	700mA	3 500 K	1 550 lm	78 lm/W	10,8 kg	B-50/Z-50
45400/4/22/C...	KARIN LED EV 22	22 kW	60 mm	150 mm	16 W	20 W	700mA	4 000 K	1 850 lm	93 lm/W	10,8 kg	B-50/Z-50
45400/6/22/C...	KARIN LED EV 22	22 kW	60 mm	150 mm	16 W	20 W	700mA	5 000 K	1 850 lm	93 lm/W	10,8 kg	B-50/Z-50

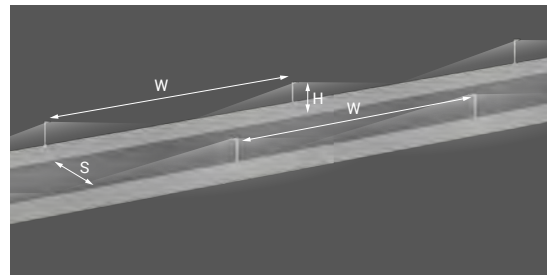
/B – Charging station intended for private use, without integration with the operator system
/C... – choice of anodising colour



LED világítóoszlopok

CUT-1 LED

Lighting example



Sidewalk

CUT-1

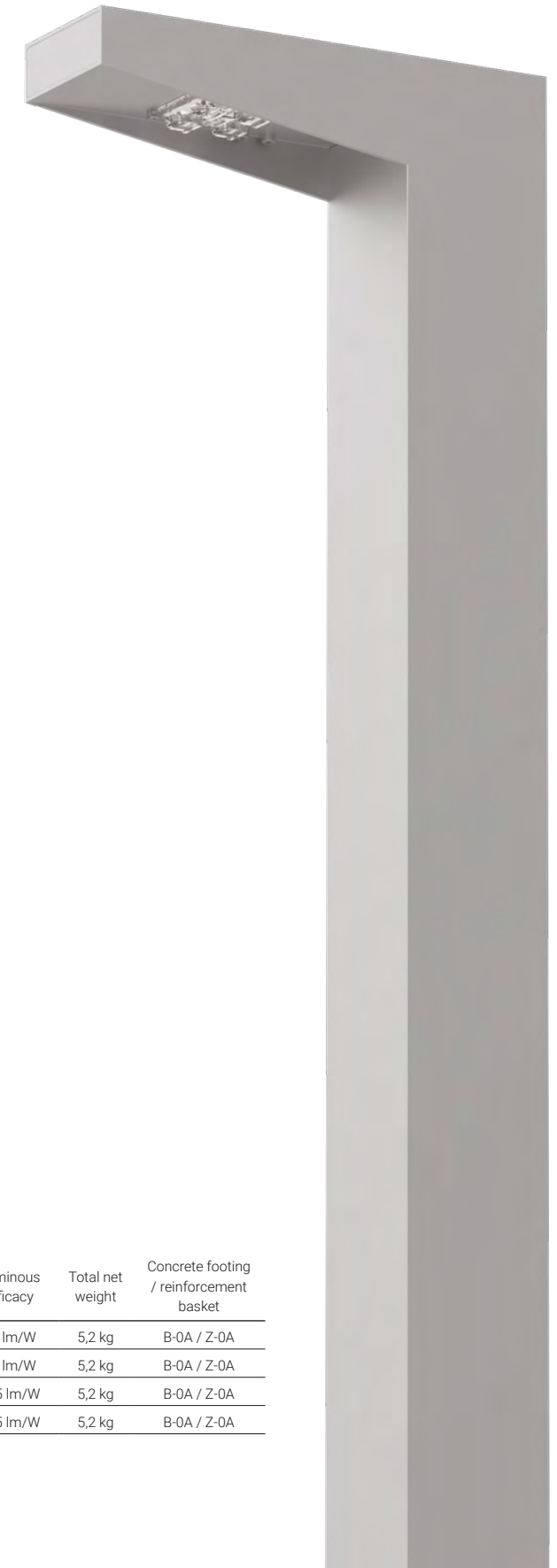
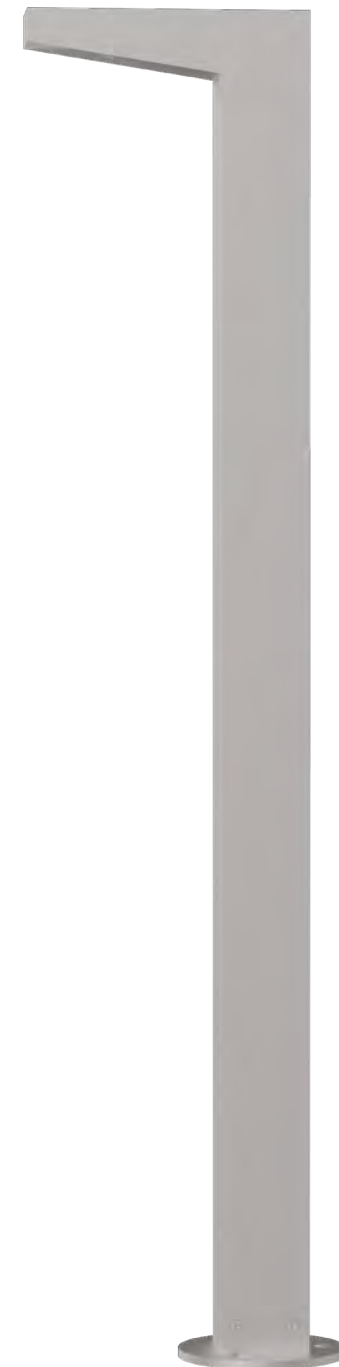
Parameters:

H – lighting sets height: 1 m

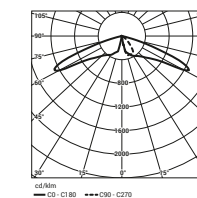
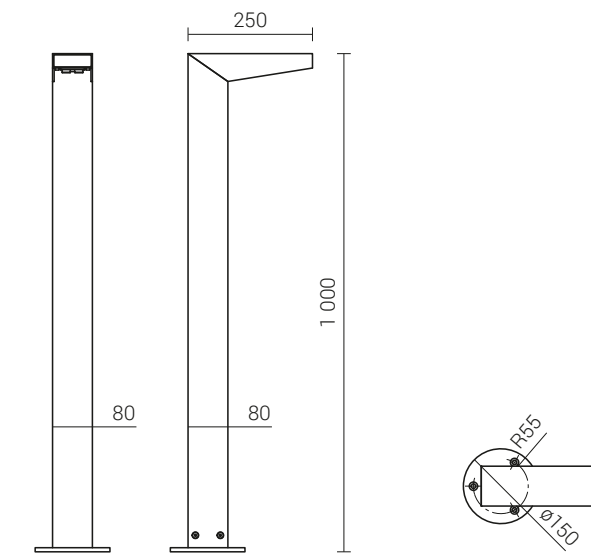
W – pole spacing: 12 m

S – sidewalk width: 3 m

Tychy, Poland



Application: office building surroundings, parks, pedestrian walkways
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium profiles
Anodising: 10 colours, each with the option of chemical brightening
Optical system: PC lens
Number of LEDs: 4
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 4 000 K, 5 000 K, >80 for 2 700 K, 3 500 K
Unit volume: 0,0225 m³
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,8



Code	Name	Height	LED power	Luminaire power consumption	LED forward current	Colour temperature	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
45340/1/C...	CUT-1 LED	1 000 mm	8 W	10 W	700 mA	2 700 K	900 lm	90 lm/W	5,2 kg	B-0A / Z-0A
45340/3/C...	CUT-1 LED	1 000 mm	8 W	10 W	700 mA	3 500 K	950 lm	95 lm/W	5,2 kg	B-0A / Z-0A
45340/4/C...	CUT-1 LED	1 000 mm	8 W	10 W	700 mA	4 000 K	1150 lm	115 lm/W	5,2 kg	B-0A / Z-0A
45340/6/C...	CUT-1 LED	1 000 mm	8 W	10 W	700 mA	5 000 K	1150 lm	115 lm/W	5,2 kg	B-0A / Z-0A

/C... – choice of anodising colour

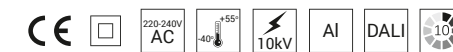
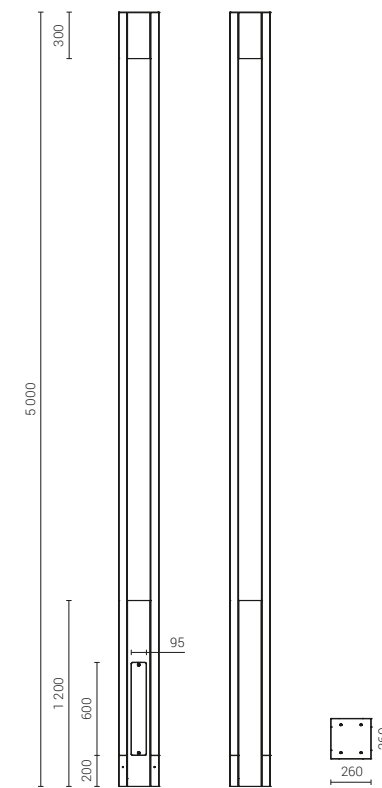
SAL PROF DECOR LED

Example of decorative elements



Application: office building surroundings, parks, pedestrian walkways
Ingress protection: IP 66 for the optical part and the driver
Material: anodised aluminium profiles
Anodising: 10 colours each available in matt or soft gloss finish
Number of LEDs: 16
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 4 000 K, 5 000 K, >80 for 2 700 K, 3 500 K
Unit volume: 0,35 m³
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95

Lighting columns SAL PROF LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10 V).
 Technical data of decorative elements in the technical card available at www.rosa.pl

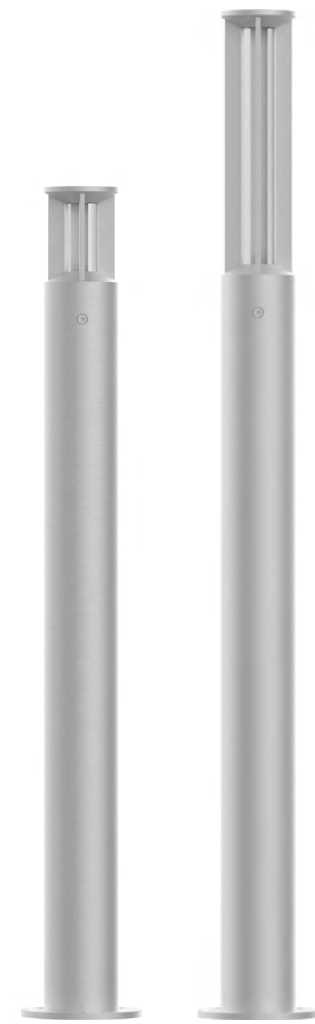
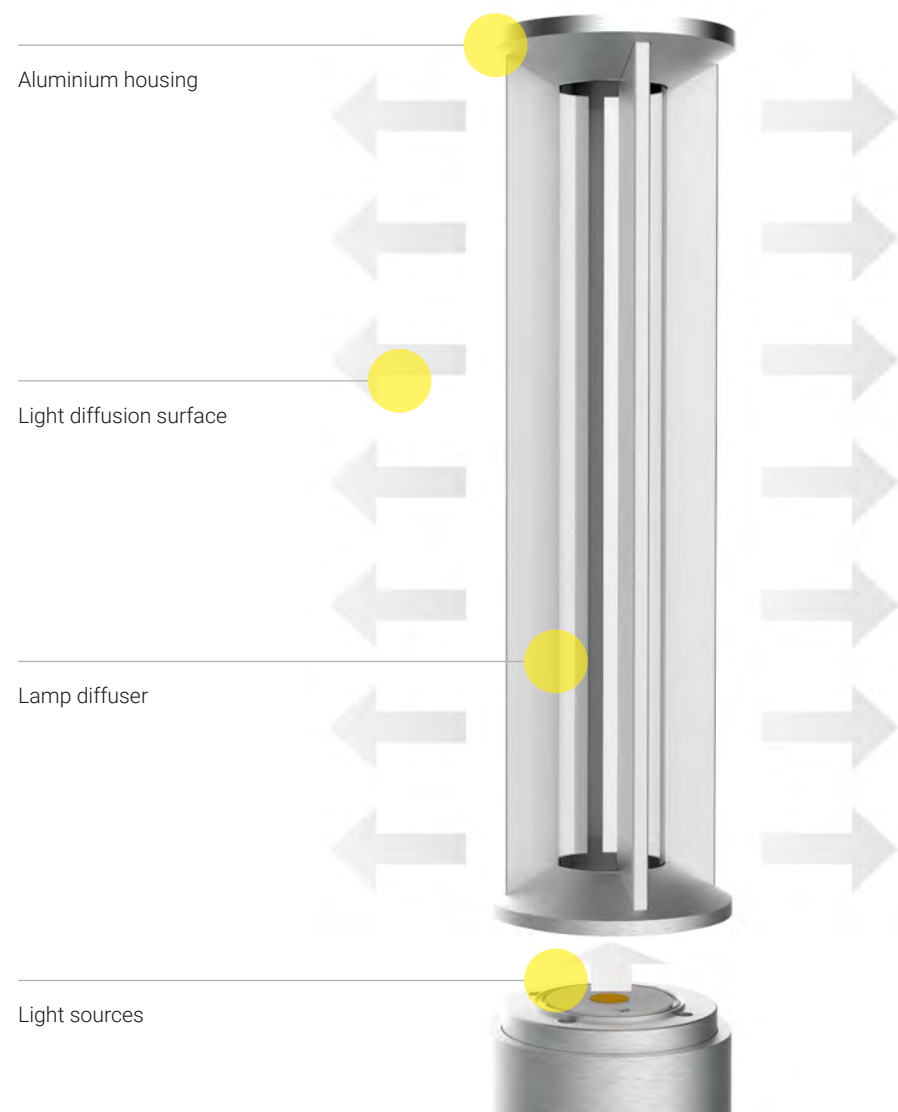


Code	Name	Height	LED power	Luminaire power consumption	LED forward current	Colour temperature	LEDs luminous flux	Total net weight	Reinforcement basket
219533/1/C...	SAL PROF DECOR LED	5 000 mm	48 W	55 W	1000 mA	2 700 K	6600 lm	72 kg	Z-52
219533/3/C...	SAL PROF DECOR LED	5 000 mm	48 W	55 W	1000 mA	3 500 K	6900 lm	72 kg	Z-52
219533/4/C...	SAL PROF DECOR LED	5 000 mm	48 W	55 W	1000 mA	4 000 K	7800 lm	72 kg	Z-52
219533/6/C...	SAL PROF DECOR LED	5 000 mm	48 W	55 W	1000 mA	5 000 K	7800 lm	72 kg	Z-52

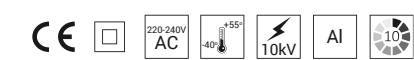
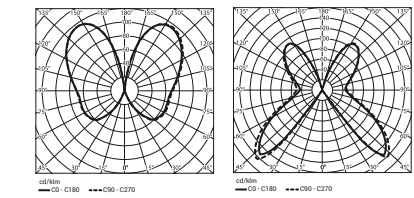
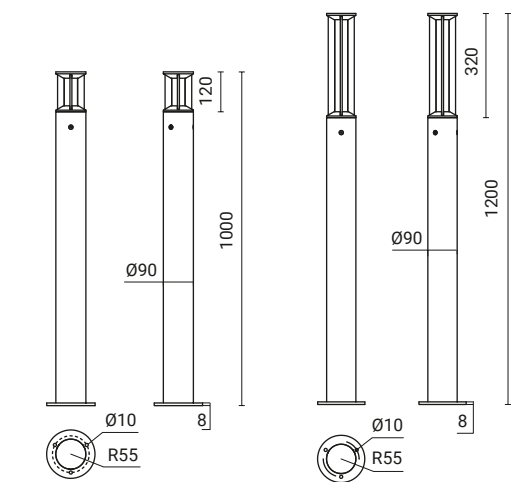
/C... – choice of anodising colour

SLICE LED

The SLICE LED column is made of anodised aluminium with a height of 1000 and 1200 mm, equipped with a single lighting diffuser in the shape of a rod (Ø 40 mm) with a length of 100 or 300 mm.



Application: office building surroundings, parks, pedestrian walkways
Ingress protection: IP 65
Material: anodised aluminium alloy
Anodising: 110 colours each available in matt or soft gloss finish
Diffuser: transparent
Number of LEDs: 1
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 4 000 K, 5 000 K, >80 for 2 700 K, 3 500 K
Unit volume: 0,021 m³ (SLICE LED 1000)
 0,025 m³ (SLICE LED 1200)
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95

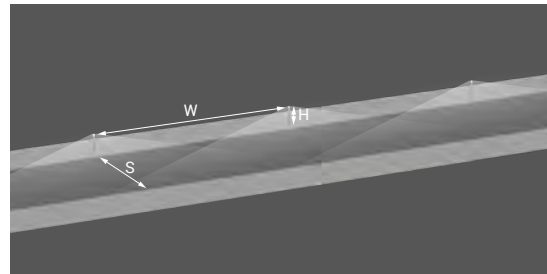


Code	Name	Height H	LED power	Luminaire power consumption	Colour temperature	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
45290/1/C...	SLICE LED 1000	1 000 mm	12 W	14 W	2 700 K	350 lm	25 lm/W	4,6 kg	B-0A / Z-0A
45290/3/C...	SLICE LED 1000	1 000 mm	12 W	14 W	3 500 K	450 lm	32 lm/W	4,6 kg	B-0A / Z-0A
45290/4/C...	SLICE LED 1000	1 000 mm	12 W	14 W	4 000 K	500 lm	35 lm/W	4,6 kg	B-0A / Z-0A
45290/6/C...	SLICE LED 1000	1 000 mm	12 W	14 W	5 000 K	500 lm	35 lm/W	4,6 kg	B-0A / Z-0A
45291/1/C...	SLICE LED 1200	1 200 mm	12 W	14 W	2 700 K	850 lm	61 lm/W	5,3 kg	B-0A / Z-0A
45291/3/C...	SLICE LED 1200	1 200 mm	12 W	14 W	3 500 K	1 000 lm	71 lm/W	5,3 kg	B-0A / Z-0A
45291/4/C...	SLICE LED 1200	1 200 mm	12 W	14 W	4 000 K	1 050 lm	75 lm/W	5,3 kg	B-0A / Z-0A
45291/6/C...	SLICE LED 1200	1 200 mm	12 W	14 W	5 000 K	1 050 lm	75 lm/W	5,3 kg	B-0A / Z-0A

LED világítóoszlop

FLARE LED

Lighting example



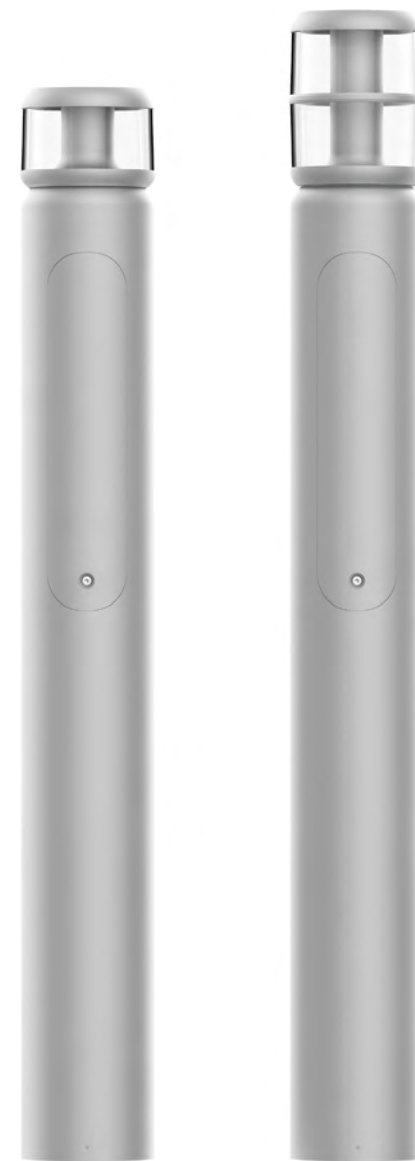
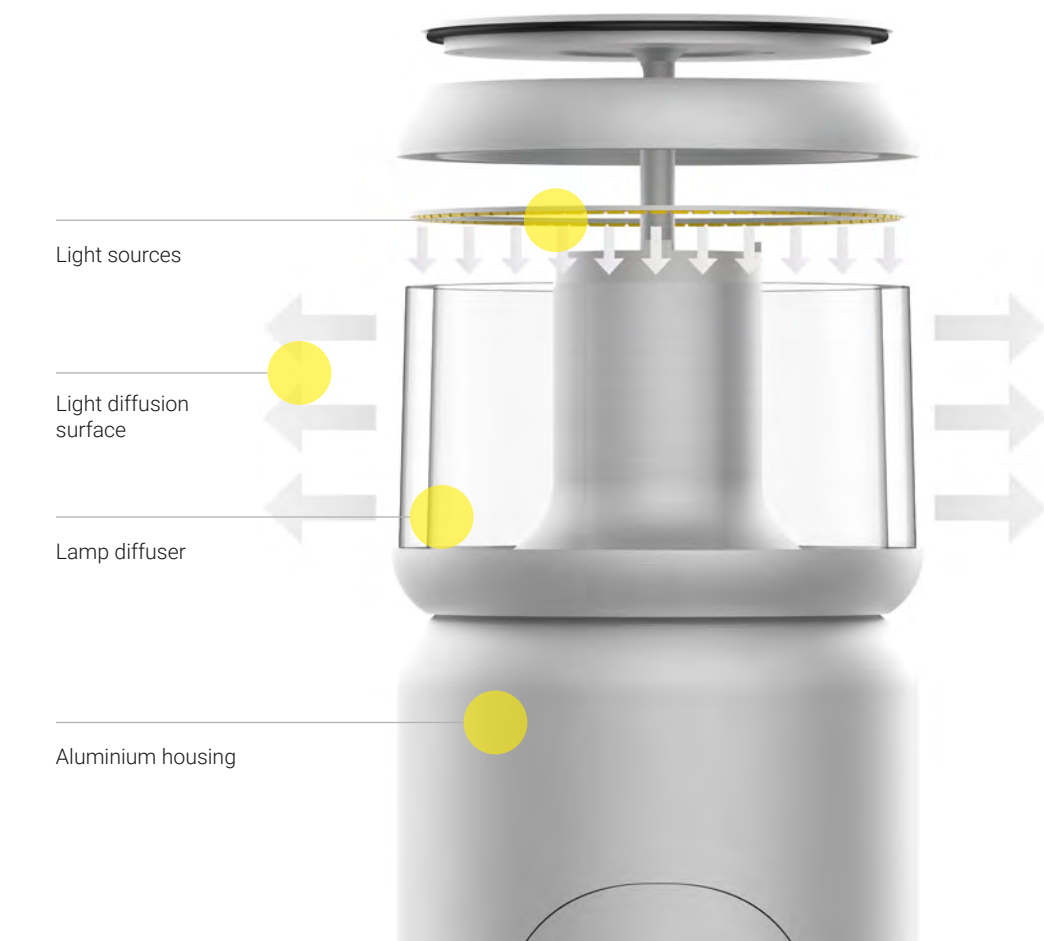
Sidewalk

FLARE LED 1

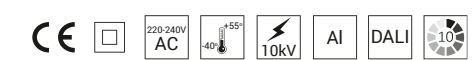
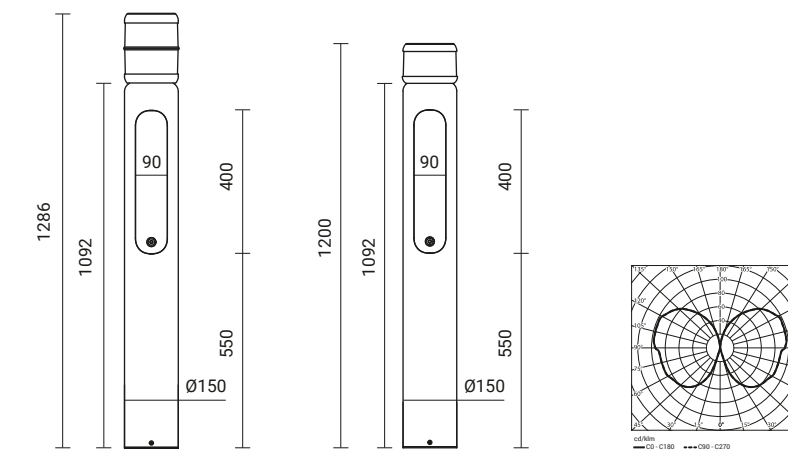
Parameters:

H – lighting bollard height: 1,2 m
 W – lighting bollard spacing: 12 m
 S – sidewalk width: 4 m

Lighting class P5



Application: office building surroundings, parks, pedestrian walkways
Ingress protection: IP 65 for the optical part and the driver
Material: anodised aluminium alloy
Anodising: 10 colours each available in matt or soft gloss finish
Diffuser: transparent
Number of LEDs: 64 (FLARE LED 1), 128 (FLARE LED 2)
Expected useful lifetime: L80F20 – 50000 h
CRI: >70 for 5 000 K; >80 for 3 500 K
Unit volume: 0,027 m³ (FLARE LED 1), 0,029 m³ (FLARE LED 2)
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95



Code	Name	Height H	LED power	Luminaire power consumption	Colour temperature	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
45280/3/C...	FLARE LED 1	1200 mm	14 W	16 W	3 500 K	750 lm	54 lm/W	8,5 kg	B-0A / Z-0A
45280/6/C...	FLARE LED 1	1200 mm	14 W	16 W	5 000 K	750 lm	54 lm/W	8,5 kg	B-0A / Z-0A
45281/3/C...	FLARE LED 2	1286 mm	20 W	22 W	3 500 K	1400 lm	71 lm/W	9,0 kg	B-0A / Z-0A
45281/6/C...	FLARE LED 2	1286 mm	20 W	22 W	5 000 K	1400 lm	71 lm/W	9,0 kg	B-0A / Z-0A

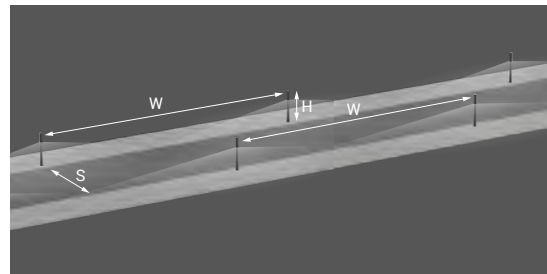
/C... – choice of anodising colour

LED világítóoszlop

DAMA II LED



Lighting example



Sidewalk

DAMA II LED

Parameters:

H – lighting bollard height: 1,2 m
W – lighting bollard spacing: 11 m
S – sidewalk width: 4 m

Lighting class P4

Application: office building surroundings, parks, pedestrian walkways

Ingress protection: IP 65 for the optical part and the driver

Material: anodised aluminium alloy

Anodising: 10 colours each available in matt or soft gloss finish

Number of LEDs: 6

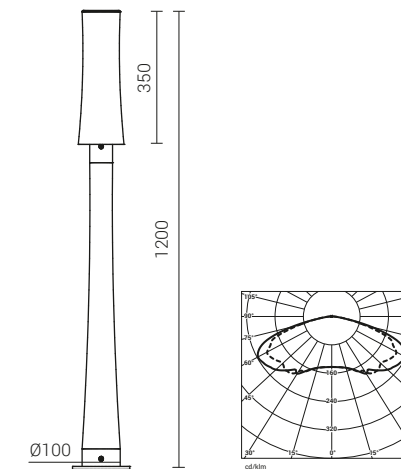
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 0,03 m³

Input voltage frequency: 50/60 Hz

Power factor: ≥ 0,9



Code	Name	Height H	LED power	Luminaire power consumption	LED forward current	Colour temperature	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
45330/1/C...	DAMA II LED	1 200 mm	8 W	12 W	500 mA	2 700 K	900 lm	75 lm/W	4,4 kg	B-0A / Z-0A
45330/3/C...	DAMA II LED	1 200 mm	8 W	12 W	500 mA	3 500 K	950 lm	79 lm/W	4,4 kg	B-0A / Z-0A
45330/4/C...	DAMA II LED	1 200 mm	8 W	12 W	500 mA	4 000 K	1 150 lm	96 lm/W	4,4 kg	B-0A / Z-0A
45330/6/C...	DAMA II LED	1 200 mm	8 W	12 W	500 mA	5 000 K	1 150 lm	96 lm/W	4,4 kg	B-0A / Z-0A

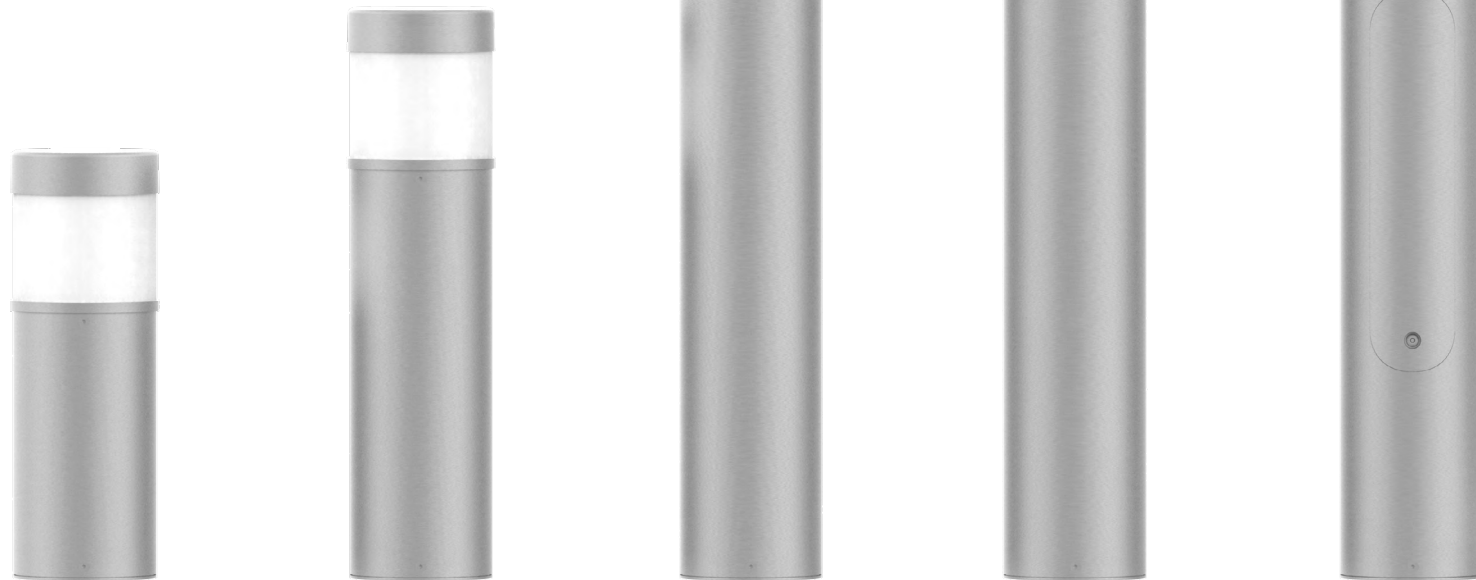
/C... – choice of anodising colour

LED világítóoszlop

KARIN LED



Katowice, Poland



Application: office building surroundings, parks, pedestrian walkways
Ingress protection: IP 65 for the optical part and the driver
Material: anodised aluminium alloy
Anodising: 10 colours each available in matt or soft gloss finish
Diffuser: frosted (PMMA)

Number of LEDs: 8
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,9



Code	Name	Height H	Diffuser height h	Diameter D	LED power	Luminaire power consumption	LED forward current	Colour temperature	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
452008/1/C...	KARIN 450 LED 8	455 mm	113 mm	150 mm	8 W	10 W	350 mA	2 700 K	800 lm	80 lm/W	3 kg	B-0 / Z-0
452008/3/C...	KARIN 450 LED 8	455 mm	113 mm	150 mm	8 W	10 W	350 mA	3 500 K	850 lm	85 lm/W	3 kg	B-0 / Z-0
452008/4/C...	KARIN 450 LED 8	455 mm	113 mm	150 mm	8 W	10 W	350 mA	4 000 K	1 000 lm	100 lm/W	3 kg	B-0 / Z-0
452008/6/C...	KARIN 450 LED 8	455 mm	113 mm	150 mm	8 W	10 W	350 mA	5 000 K	1 000 lm	100 lm/W	3 kg	B-0 / Z-0
45200/1/C...	KARIN 450 LED 16	455 mm	113 mm	150 mm	16 W	20 W	700 mA	2 700 K	1 500 lm	75 lm/W	3 kg	B-0 / Z-0
45200/3/C...	KARIN 450 LED 16	455 mm	113 mm	150 mm	16 W	20 W	700 mA	3 500 K	1 550 lm	78 lm/W	3 kg	B-0 / Z-0
45200/4/C...	KARIN 450 LED 16	455 mm	113 mm	150 mm	16 W	20 W	700 mA	4 000 K	1 850 lm	93 lm/W	3 kg	B-0 / Z-0
45200/6/C...	KARIN 450 LED 16	455 mm	113 mm	150 mm	16 W	20 W	700 mA	5 000 K	1 850 lm	93 lm/W	3 kg	B-0 / Z-0
452108/1/C...	KARIN 600 LED 8	575 mm	113 mm	150 mm	8 W	10 W	350 mA	2 700 K	800 lm	80 lm/W	3,5 kg	B-0 / Z-0
452108/3/C...	KARIN 600 LED 8	575 mm	113 mm	150 mm	8 W	10 W	350 mA	3 500 K	850 lm	85 lm/W	3,5 kg	B-0 / Z-0
452108/4/C...	KARIN 600 LED 8	575 mm	113 mm	150 mm	8 W	10 W	350 mA	4 000 K	1 000 lm	100 lm/W	3,5 kg	B-0 / Z-0
452108/6/C...	KARIN 600 LED 8	575 mm	113 mm	150 mm	8 W	10 W	350 mA	5 000 K	1 000 lm	100 lm/W	3,5 kg	B-0 / Z-0
45210/1/C...	KARIN 600 LED 16	575 mm	113 mm	150 mm	16 W	20 W	700 mA	2 700 K	1 500 lm	75 lm/W	3,5 kg	B-0 / Z-0
45210/3/C...	KARIN 600 LED 16	575 mm	113 mm	150 mm	16 W	20 W	700 mA	3 500 K	1 550 lm	78 lm/W	3,5 kg	B-0 / Z-0
45210/4/C...	KARIN 600 LED 16	575 mm	113 mm	150 mm	16 W	20 W	700 mA	4 000 K	1 850 lm	93 lm/W	3,5 kg	B-0 / Z-0
45210/6/C...	KARIN 600 LED 16	575 mm	113 mm	150 mm	16 W	20 W	700 mA	5 000 K	1 850 lm	93 lm/W	3,5 kg	B-0 / Z-0
452208/1/C...	KARIN 900 LED 8	875 mm	113 mm	150 mm	8 W	10 W	350 mA	2 700 K	800 lm	80 lm/W	4,2 kg	B-0 / Z-0
452208/3/C...	KARIN 900 LED 8	875 mm	113 mm	150 mm	8 W	10 W	350 mA	3 500 K	850 lm	85 lm/W	4,2 kg	B-0 / Z-0
452208/4/C...	KARIN 900 LED 8	875 mm	113 mm	150 mm	8 W	10 W	350 mA	4 000 K	1 000 lm	100 lm/W	4,2 kg	B-0 / Z-0
452208/6/C...	KARIN 900 LED 8	875 mm	113 mm	150 mm	8 W	10 W	350 mA	5 000 K	1 000 lm	100 lm/W	4,2 kg	B-0 / Z-0
45220/1/C...	KARIN 900 LED 16	875 mm	113 mm	150 mm	16 W	20 W	700 mA	2 700 K	1 500 lm	75 lm/W	4,2 kg	B-0 / Z-0
45220/3/C...	KARIN 900 LED 16	875 mm	113 mm	150 mm	16 W	20 W	700 mA	3 500 K	1 550 lm	78 lm/W	4,2 kg	B-0 / Z-0
45220/4/C...	KARIN 900 LED 16	875 mm	113 mm	150 mm	16 W	20 W	700 mA	4 000 K	1 850 lm	93 lm/W	4,2 kg	B-0 / Z-0
45220/6/C...	KARIN 900 LED 16	875 mm	113 mm	150 mm	16 W	20 W	700 mA	5 000 K	1 850 lm	93 lm/W	4,2 kg	B-0 / Z-0
452308/3/C...	KARIN 1200 LED 8	1 175 mm	113 mm	150 mm	8 W	10 W	350 mA	2 700 K	800 lm	80 lm/W	5,5 kg	B-0A / Z-0A
452308/4/C...	KARIN 1200 LED 8	1 175 mm	113 mm	150 mm	8 W	10 W	350 mA	3 500 K	850 lm	85 lm/W	5,5 kg	B-0A / Z-0A
452308/6/C...	KARIN 1200 LED 8	1 175 mm	113 mm	150 mm	8 W	10 W	350 mA	4 000 K	1 000 lm	100 lm/W	5,5 kg	B-0A / Z-0A
452308/1/C...	KARIN 1200 LED 8	1 175 mm	113 mm	150 mm	8 W	10 W	350 mA	5 000 K	1 000 lm	100 lm/W	5,5 kg	B-0A / Z-0A
45230/1/C...	KARIN 1200 LED 16	1 175 mm	113 mm	150 mm	16 W	20 W	700 mA	2 700 K	1 500 lm	75 lm/W	5,5 kg	B-0A / Z-0A
45230/3/C...	KARIN 1200 LED 16	1 175 mm	113 mm	150 mm	16 W	20 W	700 mA	3 500 K	1 550 lm	78 lm/W	5,5 kg	B-0A / Z-0A
45230/4/C...	KARIN 1200 LED 16	1 175 mm	113 mm	150 mm	16 W	20 W	700 mA	4 000 K	1 850 lm	93 lm/W	5,5 kg	B-0A / Z-0A
45230/6/C...	KARIN 1200 LED 16	1 175 mm	113 mm	150 mm	16 W	20 W	700 mA	5 000 K	1 850 lm	93 lm/W	5,5 kg	B-0A / Z-0A
452328/1/C...	KARIN 1200W LED 8	1 175 mm	113 mm	150 mm	8 W	10 W	350 mA	2 700 K	800 lm	80 lm/W	6,8 kg	B-0A / Z-0A
452328/3/C...	KARIN 1200W LED 8	1 175 mm	113 mm	150 mm	8 W	10 W	350 mA	3 500 K	850 lm	85 lm/W	6,8 kg	B-0A / Z-0A
452328/4/C...	KARIN 1200W LED 8	1 175 mm	113 mm	150 mm	8 W	10 W	350 mA	4 000 K	1 000 lm	100 lm/W	6,8 kg	B-0A / Z-0A
452328/6/C...	KARIN 1200W LED 8	1 175 mm	113 mm	150 mm	8 W	10 W	350 mA	5 000 K	1 000 lm	100 lm/W	6,8 kg	B-0A / Z-0A
45232/1/C...	KARIN 1200W LED 16	1 175 mm	113 mm	150 mm	16 W	20 W	700 mA	2 700 K	1 500 lm	75 lm/W	6,8 kg	B-0A / Z-0A
45232/3/C...	KARIN 1200W LED 16	1 175 mm	113 mm	150 mm	16 W	20 W	700 mA	3 500 K	1 550 lm	78 lm/W	6,8 kg	B-0A / Z-0A
45232/4/C...	KARIN 1200W LED 16	1 175 mm	113 mm	150 mm	16 W	20 W	700 mA	4 000 K	1 850 lm	93 lm/W	6,8 kg	B-0A / Z-0A
45232/6/C...	KARIN 1200W LED 16	1 175 mm	113 mm	150 mm	16 W	20 W	700 mA	5 000 K	1 850 lm	93 lm/W	6,8 kg	B-0A / Z-0A

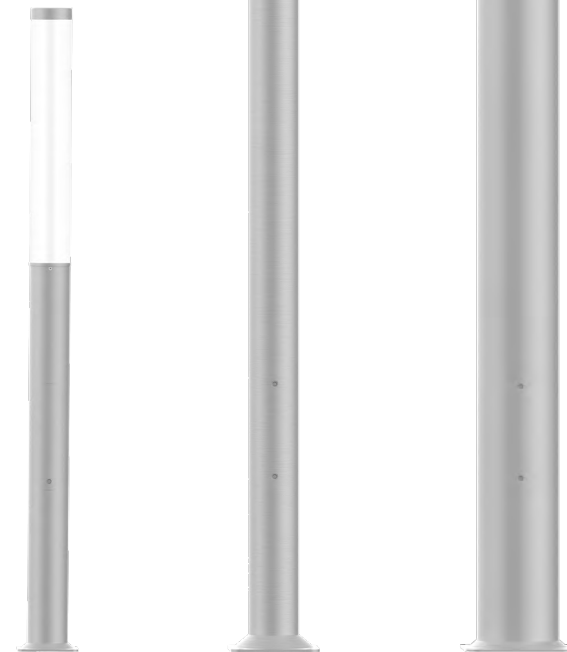
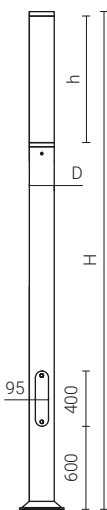
/C... – choice of anodising colour

LED világítóoszlop

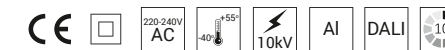
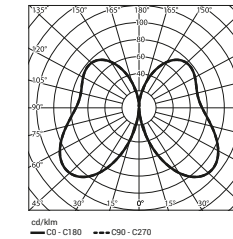
KARIN LED



Żywiec, Poland



Application: office building surroundings, parks, pedestrian walkways
Ingress protection: IP 65 for the optical part and the driver
Material: anodised aluminium alloy, with exception in KARIN 6000 – painted finish
Anodising: 10 colours each available in matt or soft gloss finish
Diffuser: frosted (PMMA)
Number of LEDs: 16 (KARIN 2400 LED)
 24 (KARIN 3600 LED)
 44 (KARIN 4800 LED)
 58 (KARIN 6000 LED)
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95
 Lighting columns KARIN LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10 V)



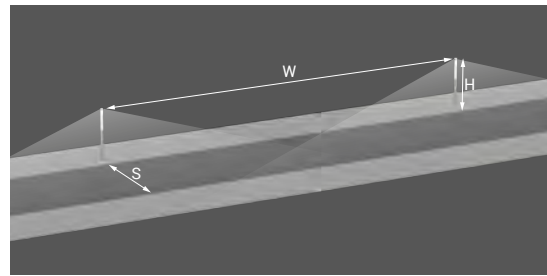
Code	Name	Height H	Diffuser height h	Diameter D	LED power	Luminaire power consumption	LED forward current	Colour temperature	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
45240/1/C...	KARIN 2400 LED 32	2 400 mm	908 mm	150 mm	32 W	38 W	700 mA	2 700 K	2 850 lm	75 lm/W	12 kg	B-50 / Z-50
45240/3/C...	KARIN 2400 LED 32	2 400 mm	908 mm	150 mm	32 W	38 W	700 mA	3 500 K	2 950 lm	78 lm/W	12 kg	B-50 / Z-50
45240/4/C...	KARIN 2400 LED 32	2 400 mm	908 mm	150 mm	32 W	38 W	700 mA	4 000 K	3 450 lm	91 lm/W	12 kg	B-50 / Z-50
45240/6/C...	KARIN 2400 LED 32	2 400 mm	908 mm	150 mm	32 W	38 W	700 mA	5 000 K	3 450 lm	91 lm/W	12 kg	B-50 / Z-50
45250/1/C...	KARIN 3600 LED 48	3 600 mm	915 mm	180 mm	48 W	55 W	700 mA	2 700 K	4 250 lm	77 lm/W	26 kg	B-60 / Z-60
45250/3/C...	KARIN 3600 LED 48	3 600 mm	915 mm	180 mm	48 W	55 W	700 mA	3 500 K	4 450 lm	81 lm/W	26 kg	B-60 / Z-60
45250/4/C...	KARIN 3600 LED 48	3 600 mm	915 mm	180 mm	48 W	55 W	700 mA	4 000 K	5 200 lm	95 lm/W	26 kg	B-60 / Z-60
45250/6/C...	KARIN 3600 LED 48	3 600 mm	915 mm	180 mm	48 W	55 W	700 mA	5 000 K	5 200 lm	95 lm/W	26 kg	B-60 / Z-60
45260/1/C...	KARIN 4800 LED 82	4 800 mm	915 mm	200 mm	82 W	92 W	650 mA	2 700 K	5 800 lm	63 lm/W	44 kg	B-60 / Z-60
45260/3/C...	KARIN 4800 LED 82	4 800 mm	915 mm	200 mm	82 W	92 W	650 mA	3 500 K	6 050 lm	66 lm/W	44 kg	B-60 / Z-60
45260/4/C...	KARIN 4800 LED 82	4 800 mm	915 mm	200 mm	82 W	92 W	650 mA	4 000 K	7 500 lm	82 lm/W	44 kg	B-60 / Z-60
45260/6/C...	KARIN 4800 LED 82	4 800 mm	915 mm	200 mm	82 W	92 W	650 mA	5 000 K	7 500 lm	82 lm/W	44 kg	B-60 / Z-60
45270/1/M/...	KARIN 6000 LED 116	6 000 mm	915 mm	300 mm	116 W	134 W	700 mA	2 700 K	8 350 lm	62 lm/W	70 kg	B-71 / Z-71
45270/3/M/...	KARIN 6000 LED 116	6 000 mm	915 mm	300 mm	116 W	134 W	700 mA	3 500 K	8 750 lm	65 lm/W	70 kg	B-71 / Z-71
45270/4/M/...	KARIN 6000 LED 116	6 000 mm	915 mm	300 mm	116 W	134 W	700 mA	4 000 K	10 250 lm	77 lm/W	70 kg	B-71 / Z-71
45270/6/M/...	KARIN 6000 LED 116	6 000 mm	915 mm	300 mm	116 W	134 W	700 mA	5 000 K	10 250 lm	77 lm/W	70 kg	B-71 / Z-71

/C... – choice of anodising colour

LED világítóoszlop

KARIN DECOR LED

Lighting example



Bicycle and pedestrian path

KARIN DECOR 2400 LED

Parameters:

H – lighting column height: 2.4 m
W – lighting column spacing: 18 m
S – sidewalk width: 5 m

Lighting class P4

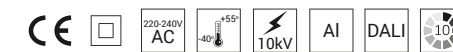
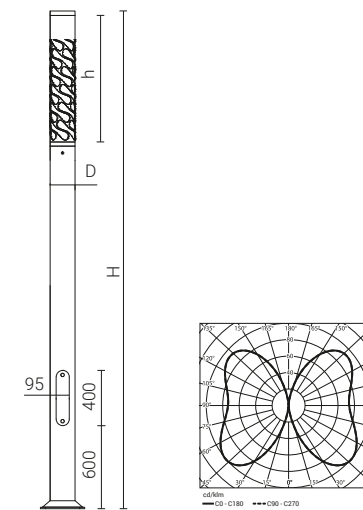


Tychy, Poland



Application: office building surroundings, parks, pedestrian walkways
Ingress protection: IP 65 for the optical part and the driver
Material: anodised aluminium alloy
Anodising: 10 colours each available in matt or soft gloss finish
Diffuser: frosted (PMMA)
Number of LEDs: 16 for 32 W; 24 for 48 W
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95

Lighting columns KARIN DECOR LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10 V).



Code	Name	Height H	Diffuser height h	Diameter D	Moc LED	Luminaire power consumption	LED forward current	Colour temperature	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
45241/1/C...	KARIN DECOR 2400 LED	2 400 mm	908 mm	150 mm	32 W	38 W	700 mA	2 700 K	2 100 lm	55 lm/W	13 kg	B-50 / Z-50
45241/3/C...	KARIN DECOR 2400 LED	2 400 mm	908 mm	150 mm	32 W	38 W	700 mA	3 500 K	2 200 lm	58 lm/W	13 kg	B-50 / Z-50
45241/4/C...	KARIN DECOR 2400 LED	2 400 mm	908 mm	150 mm	32 W	38 W	700 mA	4 000 K	2 600 lm	68 lm/W	13 kg	B-50 / Z-50
45241/6/C...	KARIN DECOR 2400 LED	2 400 mm	908 mm	150 mm	32 W	38 W	700 mA	5 000 K	2 600 lm	68 lm/W	13 kg	B-50 / Z-50
45251/1/C...	KARIN DECOR 3600 LED	3 600 mm	915 mm	180 mm	48 W	55 W	700 mA	2 700 K	3 100 lm	56 lm/W	27 kg	B-60 / Z-60
45251/3/C...	KARIN DECOR 3600 LED	3 600 mm	915 mm	180 mm	48 W	55 W	700 mA	3 500 K	3 250 lm	59 lm/W	27 kg	B-60 / Z-60
45251/4/C...	KARIN DECOR 3600 LED	3 600 mm	915 mm	180 mm	48 W	55 W	700 mA	4 000 K	3 800 lm	69 lm/W	27 kg	B-60 / Z-60
45251/6/C...	KARIN DECOR 3600 LED	3 600 mm	915 mm	180 mm	48 W	55 W	700 mA	5 000 K	3 800 lm	69 lm/W	27 kg	B-60 / Z-60
45261/1/C...	KARIN DECOR 4800 LED	4 800 mm	915 mm	180 mm	48 W	55 W	700 mA	2 700 K	3 100 lm	56 lm/W	33 kg	B-60 / Z-60
45261/3/C...	KARIN DECOR 4800 LED	4 800 mm	915 mm	180 mm	48 W	55 W	700 mA	3 500 K	3 250 lm	59 lm/W	33 kg	B-60 / Z-60
45261/4/C...	KARIN DECOR 4800 LED	4 800 mm	915 mm	180 mm	48 W	55 W	700 mA	4 000 K	3 800 lm	69 lm/W	33 kg	B-60 / Z-60
45261/6/C...	KARIN DECOR 4800 LED	4 800 mm	915 mm	180 mm	48 W	55 W	700 mA	5 000 K	3 800 lm	69 lm/W	33 kg	B-60 / Z-60

/C... – choice of anodising colour

LED világítóoszlop

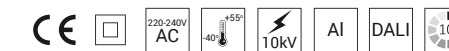
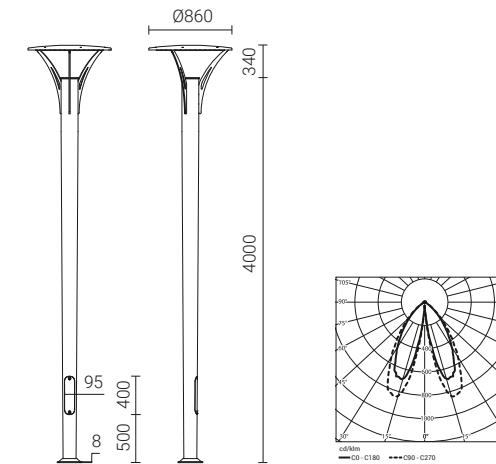
SAL DECO-1 LED



Racibórz, Poland



Application: parks, pedestrian walkways, office building surroundings
Ingress protection: IP 65 for the optical part and the driver
Material: anodised aluminium alloy
Colour: column and arms - 10 colours each available in matt or soft gloss finish
 lamp cap - RAL 7047 laminate
 aluminium plate around reflector - painted in RAL 9016
Optical system: enclosed by heat-resistant glass, cap with external reflectors in the form of convex, mirrored squares
Number of LEDs: 32
Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K
Unit volume: 0,35 m³
Input voltage frequency: 50/60 Hz
Power factor: ≥ 0,95
 Lighting columns SAL DECO-1 LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10 V).



Code	Name	Height H	LED power	Luminaire power consumption	LED forward current	Colour temperature	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
42928/1/C...	SAL DECO-1 LED	4 000 mm	65 W	73 W	700 mA	2 700 K	3 250 lm	45 lm/W	43 kg	B-51A / Z-51 A
42928/3/C...	SAL DECO-1 LED	4 000 mm	65 W	73 W	700 mA	3 500 K	3 400 lm	47 lm/W	43 kg	B-51A / Z-51 A
42928/4/C...	SAL DECO-1 LED	4 000 mm	65 W	73 W	700 mA	4 000 K	4 200 lm	58 lm/W	43 kg	B-51A / Z-51 A
42928/6/C...	SAL DECO-1 LED	4 000 mm	65 W	73 W	700 mA	5 000 K	4 200 lm	58 lm/W	43 kg	B-51A / Z-51 A

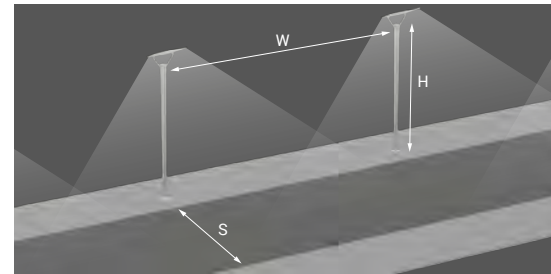
/C... – choice of anodising colour



SAL DECO-2 LED



Világítási péda



Promenade

SAL DECO-2 LED 65 W

Parameters:

H – lighting column height: 4,6 m
 W – lighting column spacing: 9 m
 S – promenade width: 6 m

Lighting class C2

Łódź, Poland



Application: residential streets, parks, pedestrian walkways, office building surroundings

Ingress protection: IP 65 for the optical part and the driver

Material: anodised aluminium alloy

Colour: column and arms - 10 colours each available in matt or soft gloss finish
 lamp cap - RAL 7047 laminate
 aluminium plate around reflector - painted in RAL 9016

Optical system: zenclosed by heat-resistant glass, cap with external reflectors in the form of convex, mirrored squares;

Number of LEDs: 32

Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

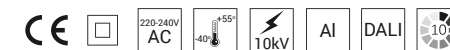
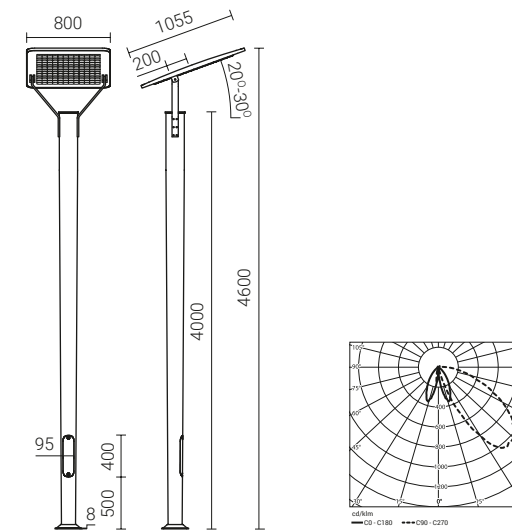
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 0,35 m³

Input voltage frequency: 50/60 Hz

Power factor: ≥ 0,95

Lighting columns SAL DECO-2 LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10 V).



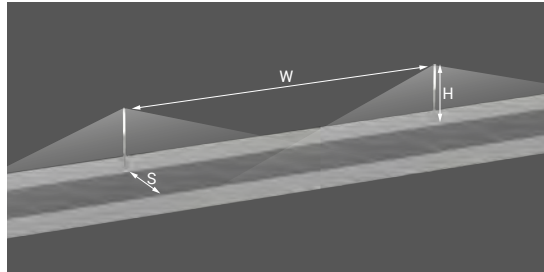
Code	Name	Height H	LED power	Luminaire power consumption	LED forward current	Colour temperature	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
42929/1/C...	SAL DECO-2 LED	4 600 mm	65 W	73 W	700 mA	2 700 K	3 250 lm	45 lm/W	47 kg	B-51 A / Z-51A
42929/3/C...	SAL DECO-2 LED	4 600 mm	65 W	73 W	700 mA	3 500 K	3 400 lm	47 lm/W	47 kg	B-51 A / Z-51A
42929/4/C...	SAL DECO-2 LED	4 600 mm	65 W	73 W	700 mA	4 000 K	4 200 lm	58 lm/W	47 kg	B-51 A / Z-51A
42929/6/C...	SAL DECO-2 LED	4 600 mm	65 W	73 W	700 mA	5 000 K	4 200 lm	58 lm/W	47 kg	B-51 A / Z-51A

/C... – choice of anodising colour

LED világító oszlopok

SAL DECO-3 LED

Lighting example



Sidewalk / promenade

SAL DECO-3 LED 48 W

Parameters:

H – lighting column height: 3,5 m

W – lighting column spacing: 20 m

S – promenade width: 5 m

Lighting class P4

France



Application: residential streets, parks, pedestrian walkways, office building surroundings

Ingress protection: IP 65 IP 65 for the optical part and the driver

Material: anodised aluminium alloy

Anodising: 10 colours each available in matt or soft gloss finish

Optical system: diffuser opal white made of UV resistant PC, aluminium decorative elements

Number of LEDs: 24

Expected useful lifetime: L90F10 – 50 000 h, L80F20 – 100 000 h

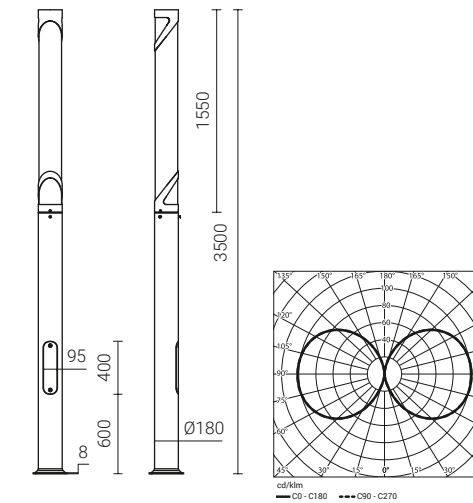
CRI: >70 for 5 000 K, 4 000 K; >80 for 3 500 K, 2 700 K

Unit volume: 0,12 m³

Input voltage frequency: 50/60 Hz

Power factor: ≥ 0,95

Lighting columns SAL DECO-3 LED has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10 V).



Code	Name	Height H	LED power	Luminaire power consumption	LED forward current	Colour temperature	Luminaire luminous flux	Luminous efficacy	Total net weight	Concrete footing / reinforcement basket
42923/3/C...	SAL DECO-3 LED	3 500 mm	48 W	55 W	700 mA	2 700 K	3 350 lm	61 lm/W	28 kg	B-51 / Z-51
42923/3/C...	SAL DECO-3 LED	3 500 mm	48 W	55 W	700 mA	3 500 K	3 550 lm	65 lm/W	28 kg	B-51 / Z-51
42923/4/C...	SAL DECO-3 LED	3 500 mm	48 W	55 W	700 mA	4 000 K	4 400 lm	80 lm/W	28 kg	B-51 / Z-51
42923/6/C...	SAL DECO-3 LED	3 500 mm	48 W	55 W	700 mA	5 000 K	4 400 lm	80 lm/W	28 kg	B-51 / Z-51

/C... – choice of anodising colour



Nagy intenzitású, hagyományos fényforrások

Hagyományos (metálhalogén v. natrium)

OP lámpatestek

Application: parks, pedestrian walkways

Assembly: on poles type S, SP with spigot type B, on the brackets configuration, columns, extension arms, aluminium and steel wall brackets with spigot $\varnothing 60 \times 45$ mm ending

Ingress protection: IP 65 for luminaire with diffuser

Material: base – polyamide, electrical gear cover– polycarbonate

Colour: black

Mounting: upwards or downwards

Luminaires type:

OP 400 – diameter of lamp diffuser collar neck $\varnothing 180$ mm,

OP 450 – diameter of lamp diffuser collar neck $\varnothing 200$ mm

Unit volume: 0,1 m³

Input voltage frequency: 50 Hz



– small stainless steel louvre reflector mounted upwards

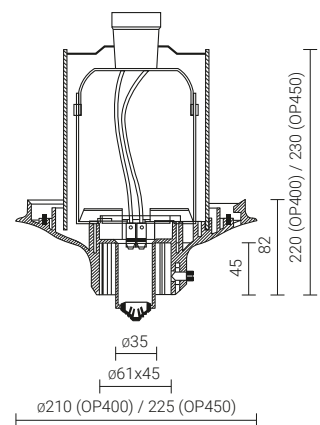
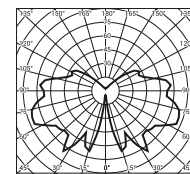
– lamp

– cover (PC)

– universal assembling frame with electromagnetic or electronic gear

– luminaire base-plate (PA)

Luminaire OP S-70 W/400
Lamp diffuser Sphere transparent with small stainless steel louvre reflector mounted downwards



Luminaire OP



Luminaire OP S-70 W/400
Lamp diffuser sphere transparent with small stainless steel louvre reflector mounted upwards



Code	Name	Power	Luminaire power consumption	Light source	Luminaire net weight	Diffuser types
210102	OP S-70W/400	70 W	92 W	Sodium E-27	2,4 kg	Sphere $\varnothing 400$, Klio $\varnothing 400$
210103	OP S-100W/400	100 W	121 W	Sodium E-40	2,6 kg	Sphere $\varnothing 400$
210107	OP MH-70W/400	70 W	92 W	Metal halide E-27	2,4 kg	Sphere $\varnothing 400$, Klio $\varnothing 400$
210108	OP MH-100W/400	100 W	118 W	Metal halide E-27	2,6 kg	Sphere $\varnothing 400$
210115	OP E/Z/400	23 W	23 W	LED E-27	1,0 kg	Sphere $\varnothing 400$, Klio $\varnothing 400$
210202	OP S-70W/450	70 W	92 W	Sodium E-27	2,7 kg	Sphere $\varnothing 450$
210203	OP S-100W/450	100 W	121 W	Sodium E-40	2,9 kg	Sphere $\varnothing 450$
210215	OP E/Z/450	23 W	23 W	LED E-27	1,3 kg	Sphere $\varnothing 450$

Hagyományos

OZ lámpatestek

Application: parks, pedestrian walkways

Assembly: on columns, extension arms, aluminium and steel wall brackets with spigot $\varnothing 60 \times 70$ mm mm and on poles type S and SP with ending specially adapted for OZ luminaire

Ingress protection: IP 44 for luminaire with diffuser

Material: polyamide with glass fibre

Colour: black

Mounting: only upwards

Luminaires type: OZ 400 – diameter of lamp diffuser collar neck $\varnothing 180$ mm,

Unit volume: 0,0037 m³

Input voltage frequency: 50 Hz



Luminaire OZ 400



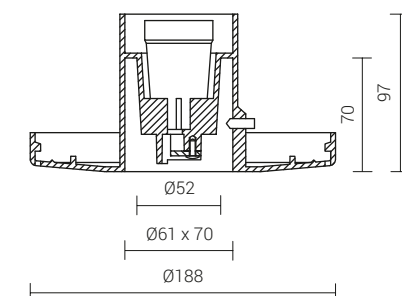
Locking handle feeder cable



Luminaire OZ 400,
lamp diffuser Klio white $\varnothing 400$

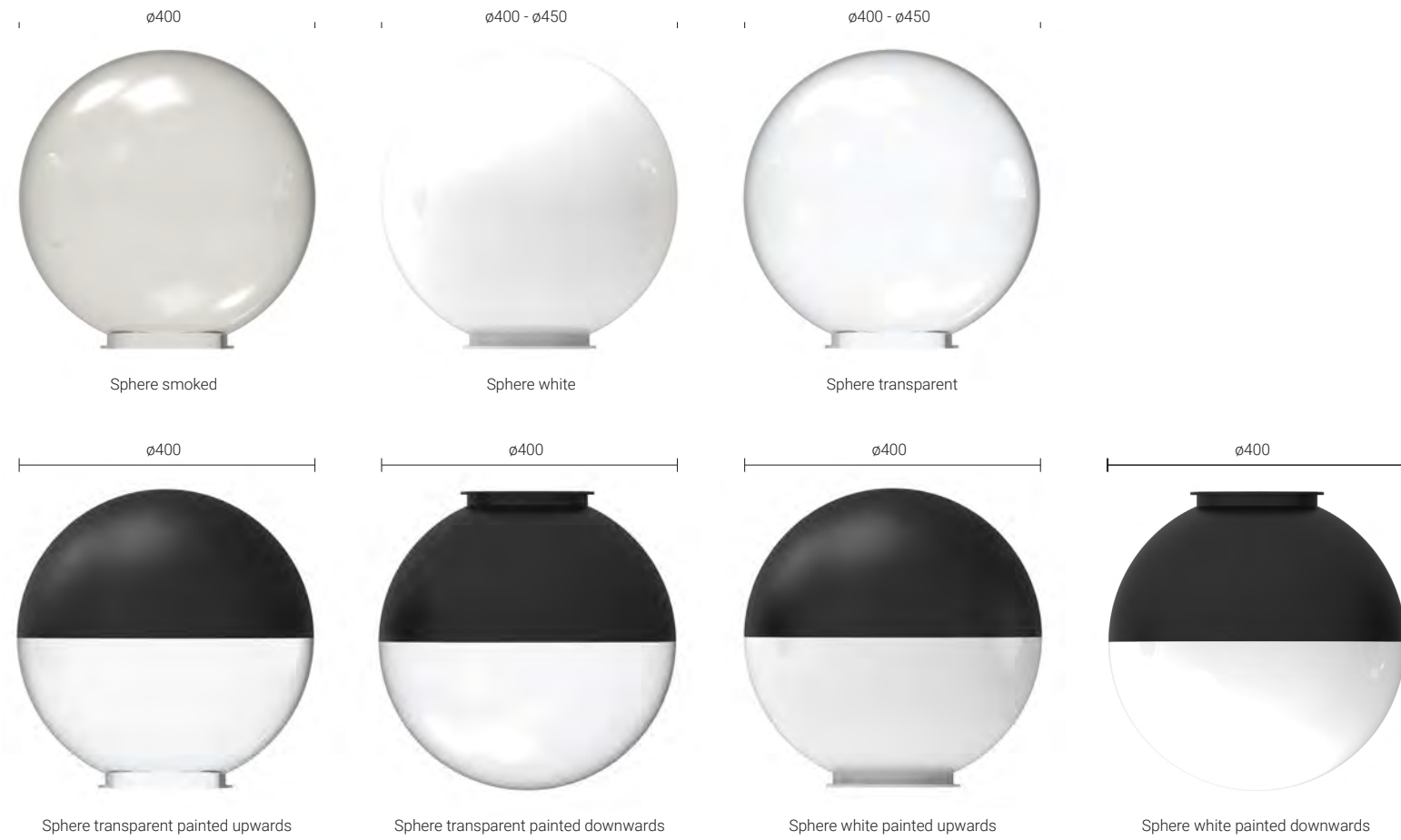


Luminaire OZ 400,
lamp diffuser sphere white $\varnothing 400$

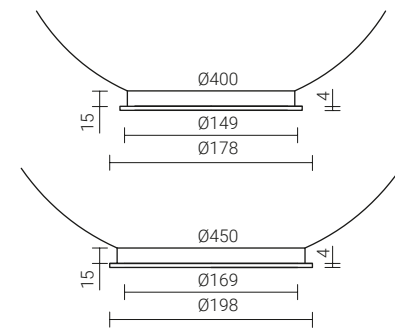


Code	Name	Light source	Luminaire net weight	Diffuser types
211415	OZ 400	LED E-27	0,35 kg	Sphere $\varnothing 400$, Klio $\varnothing 400$

Lampa diffuzorok Ø180 / Ø200 nyakrészsel



Name	Material type	Code			Luminaire types
		White	Transparent	Smoked	
Sphere 400 k-180	PC-UV	651168	-	-	OP 400, OZ 400 (upwards mounted only)
	PC	651170	651172	651174	
	PMMA	651171	651173	651175	
Sphere 400 k-180 painted mounted upwards	PC	669170	669172	-	OP 400, OZ 400 (upwards mounted only)
	PMMA	669171	669173	-	
Sphere 400 k-180 painted mounted downwards	PC	670170	670172	-	OP 400
	PMMA	670171	670173	-	
Sphere 450 k-200	PC-UV	651268	-	-	OP 450
	PMMA	651281	651283	-	
Klio 400	PMMA	675171	-	675175	OP 400, OZ 400 (upwards mounted only)



Tychy, Poland



Hagyományos

OPA-1 lámpatest

Application: parks, pedestrian walkways

Assembly: on columns, extension arms, aluminium and steel wall brackets with spigot ø60x50 mm ending

Ingress protection: IP 65 for luminaire with diffuser

Material: base - die cast aluminium-alloy, painted
electrical gear cover – polycarbonate (PC)

Colour: black (possibility to paint in other colours – polyester powder paints)

Mounting: only upwards

Luminaires type: OPA-1 – diameter of lamp diffuser collar neck ø150 mm,

Unit volume: 0,01 m³

Input voltage frequency: 50 Hz

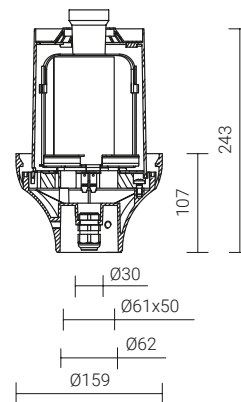
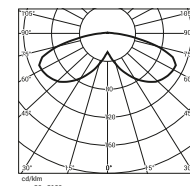


Luminaire OPA-1



Luminaire OPA-1, diffuser Atlantis

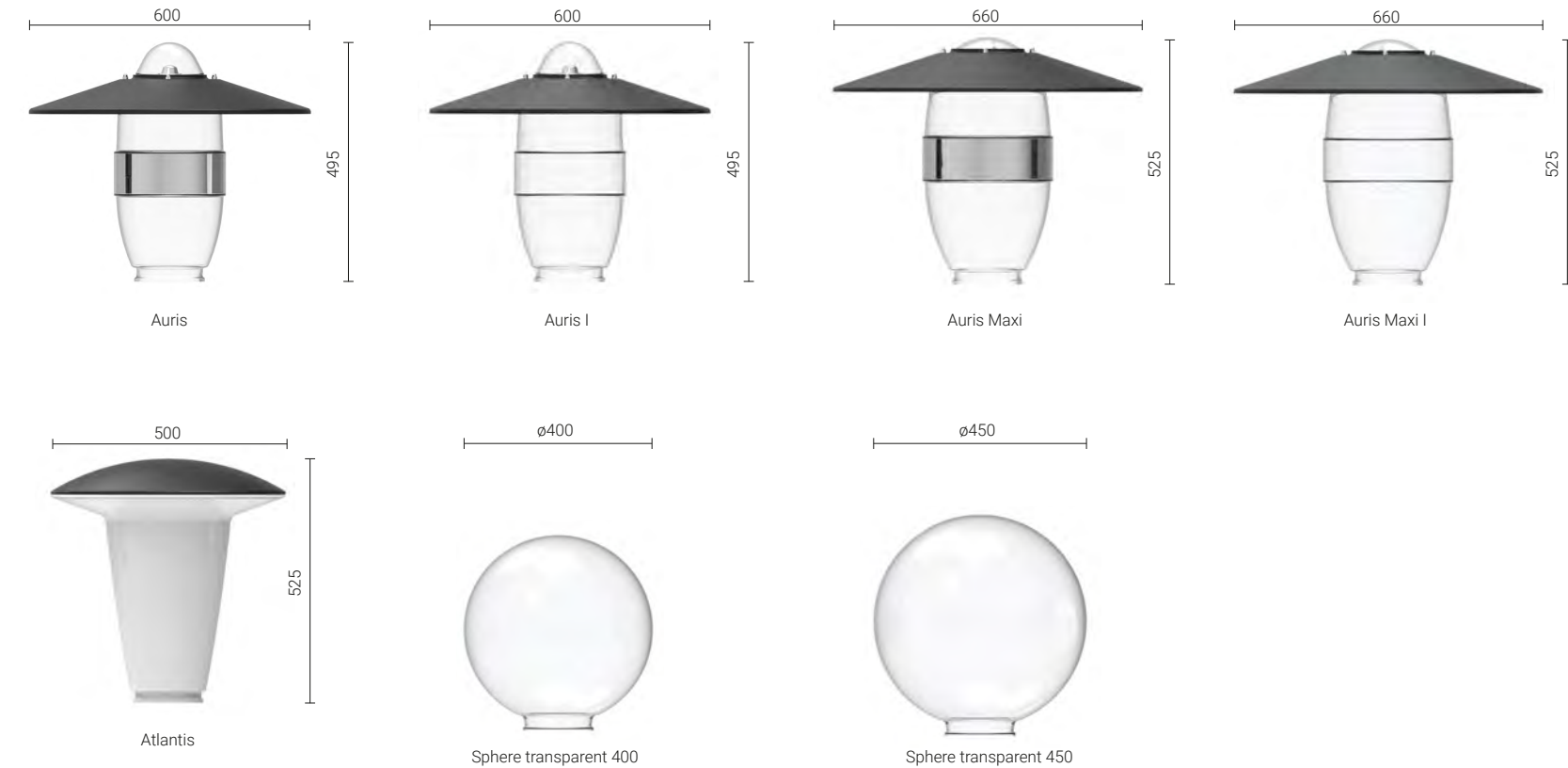
OPA-1 S-70 W
Diffuser sphere painted ø400



Code	Name	Power	Luminaire power consumption	Light source	Luminaire net weight	Diffuser types
211802	OPA-1 S-70W	70 W	92 W	Sodium E-27	2,9 kg	Auris, Auris Maxi, Auris I, Auris Maxi I, Atlantis, Sphere Ø400-500
211803	OPA-1 S-100W	100 W	121W	Sodium E-40	3,1 kg	Auris, Auris Maxi, Auris I, Auris Maxi I, Atlantis, Sphere Ø400-500
211807	OPA-1 MH-70W	70 W	92 W	Metal halide E-27	2,9 kg	Auris, Auris Maxi, Auris I, Auris Maxi I, Atlantis, Sphere Ø400-500
211808	OPA-1 MH-100W	100 W	118 W	Metal halide E-27	3,1 kg	Auris, Auris Maxi, Auris I, Auris Maxi I, Atlantis, Sphere Ø400-500
211815	OPA-1 E/Z	23 W	23 W	LED E-27	1,3 kg	Auris, Auris Maxi, Auris I, Auris Maxi I, Atlantis, Sphere Ø400-500

High-intensity discharge luminaires

Lampa diffuzorok ø150-es nyakrésszel



Name	Material type	Code		Luminaire types	Cap of shaped aluminium sheet code black / other colour
		White	Transparent		
Auris without cap	PC-LV	-	660169	OPA-1	923602 / 923603
	PC	-	660162		
	PMMA	-	660163		
Auris I without cap	PC-LV	-	671169	OPA-1	923602 / 923603
	PC	-	671162		
	PMMA	-	671163		
Auris Maxi without cap	PC	-	660362	OPA-1	923662 / 923663
Auris Maxi I without cap	PC	-	671362	OPA-1	923662 / 923663
Atlantis frozen with cap painted black	PMMA	-	662368	OPA-1	-
Atlantis frozen cap painted other colour	PMMA	-	670368	OPA-1	-
Sphere 400 k-150	PC	-	651162	OPA-1 (upwards mounted only)	
Sphere 450 k-150	PC	-	651262	OPA-1 (upwards mounted only)	

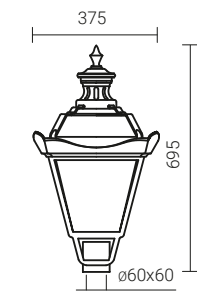
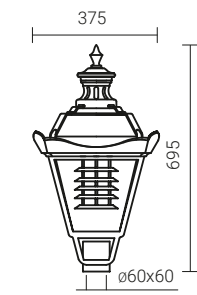
Hagyományos

OS-1 lámpatest

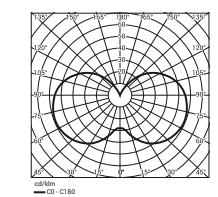


-  – ending
-  – cap
-  – universal assembling frame with electromagnetic or electronic gear
-  – frosted lamp diffuser
-  – luminaire body

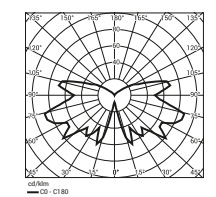
Application: parks, pedestrian walkways
Assembly: on poles type S, SP with spigot type B, on the brackets configuration, wall brackets KR, KP, columns, extension arms, aluminium and steel wall brackets with spigot $\varnothing 60 \times 60$ mm ending
Ingress protection: IP 54
Material: luminaire body – UV resistant polypropylene with glass fibre, diffuser frosted – PMMA, diffuser transparent – PMMA or PC
Colour: black
Mounting: upwards or downwards
Unit volume: 0,1 m³
Input voltage frequency: 50 Hz



OS-1 S-70 W
frosted lamp diffuser



OS-1 MH-100 W
diffuser transparent with louvre reflector



Code	Name	Power	Luminaire power consumption	Light source	Luminaire net weight
211202	OS-1 S-70W transparent diffuser PMMA	70 W	92 W	Sodium E-27	5,2 kg
211302	OS-1 S-70W transparent diffuser PC	70 W	92 W	Sodium E-27	5,2 kg
2110002	OS-1 S-70W frosted diffuser PMMA	70 W	92 W	Sodium E-27	5,2 kg
211207	OS-1 MH-70W transparent diffuser PMMA	70 W	92 W	Metal halide E-27	5,2 kg
211307	OS-1 MH-70W transparent diffuser PC	70 W	92 W	Metal halide E-27	5,2 kg
2110007	OS-1 MH-70W frosted diffuser PMMA	70 W	92 W	Metal halide E-27	5,2 kg
211308	OS-1 MH-100W transparent diffuser PC	100 W	118 W	Metal halide E-27	5,4 kg
211215	OS-1 E/Z transparent diffuser PMMA	23 W	23 W	LED E-27	3,9 kg
211315	OS-1 E/Z transparent diffuser PC	23 W	23 W	LED E-27	3,9 kg
2110015	OS-1 E/Z frosted diffuser PMMA	23 W	23 W	LED E-27	3,9 kg

Estonia



Hagyományos

ELBA lámpatest



Application: parks, pedestrian walkways, cycle paths

Assembly: pole top mounted or on extension arms with $\varnothing 60 \times 50$ mm ending

Ingress protection: IP 65

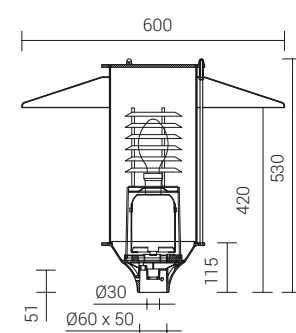
Material: cap – shaped aluminium sheet,
 lamp diffuser – methacrylate PMMA frosted and transparent version, cylindrical $\varnothing 200$ mm
 base – high pressure die cast aluminium
 electrical gear cover – polycarbonate (PC)

Colour: black (possibility to paint in other colours – polyester powder paints)

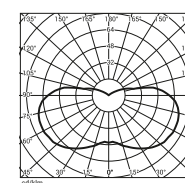
Mounting: only upwards

Unit volume: 0,06 m³

Input voltage frequency: 50 Hz



ELBA S-100 W, frosted lamp diffuser



Code	Name	Power	Luminaire power consumption	Light source	Luminaire net weight
2134002	ELBA S-70W, frosted diffuser PMMA	70 W	92 W	Sodium E-27	6,3 kg
2134003	ELBA S-100W, frosted diffuser PMMA	100 W	121 W	Sodium E-40	6,7 kg
2134007	ELBA MH-70W, frosted diffuser PMMA	70 W	92 W	Metal halide E-27	6,3 kg
2134015	ELBA E/Z, frosted diffuser PMMA	23 W	23 W	LED E-27	5,0 kg
213602	ELBA S-70W, transparent diffuser PMMA	70 W	92 W	Sodium E-27	6,5 kg
213603	ELBA S-100W, transparent diffuser PMMA	100 W	121 W	Sodium E-40	6,9 kg
213607	ELBA MH-70W, transparent diffuser PMMA	70 W	92 W	Metal halide E-27	6,5 kg
213615	ELBA E/Z, transparent diffuser PMMA	23 W	23 W	LED E-27	5,2 kg

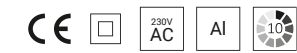
Lublin, Poland



Poznań, Poland



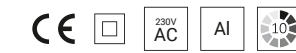
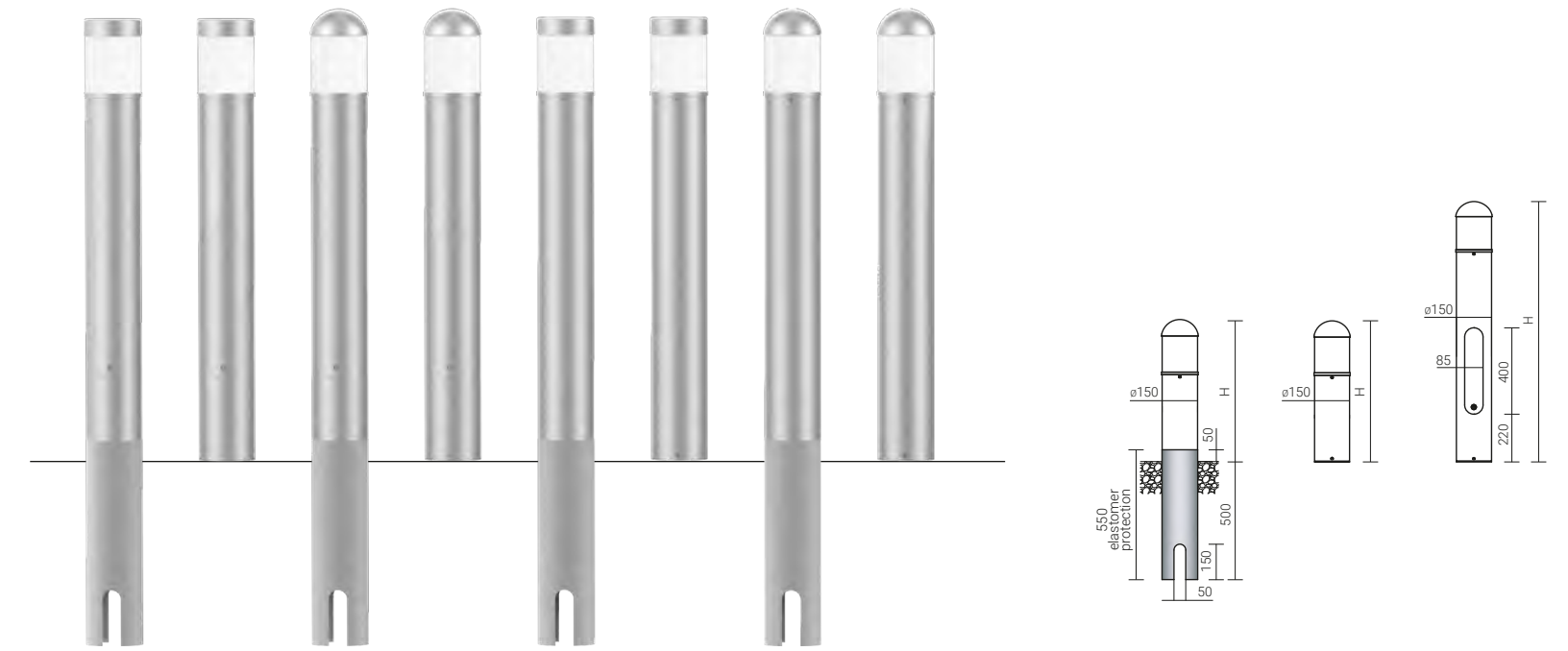
SAMR világítóoszlop



Name	Cap	Code / Light source / Total power						Height [H]	Concrete footing / reinforcement basket
		S-50 W	S-70 W	MH-70 W	MH-70 W Electronic	MH-100 W	LED		
		66 W	92 W	92 W	92 W	118 W	23 W		
		E-27	E-27	E-27	E-27	E-27	E-27		
SAMR 600	round	450001/C...	450002/C...	450003/C...	450003E/C...	450004/C...	450006/C...	645	B-0, B-0A / Z-0, Z-0A
	flat	4500101/C.../P	450002/C.../P	450003/C.../P	450003E/C.../P	450004/C.../P	450006/C.../P	615	
SAMR 600 dz	round	450060/C...	450061/C...	450062/C...	450062E/C...	450063/C...	450066/C...	645	
	flat	450060/C.../P	450061/C.../P	450062/C.../P	450062E/C.../P	450063/C.../P	450066/C.../P	615	
SAMR 900	round	450008/C...	450009/C...	450010/C...	450010E/C...	450011/C...	450014/C...	945	B-0, B-0A / Z-0, Z-0A
	flat	450008/C.../P	450009/C.../P	450010/C.../P	450010E/C.../P	450011/C.../P	450014/C.../P	915	
SAMR 900 dz	round	450067/C...	450068/C...	450069/C...	450069E/C...	450070/C...	450073/C...	945	
	flat	450067/C.../P	450068/C.../P	450069/C.../P	450069E/C.../P	450070/C.../P	450073/C.../P	915	

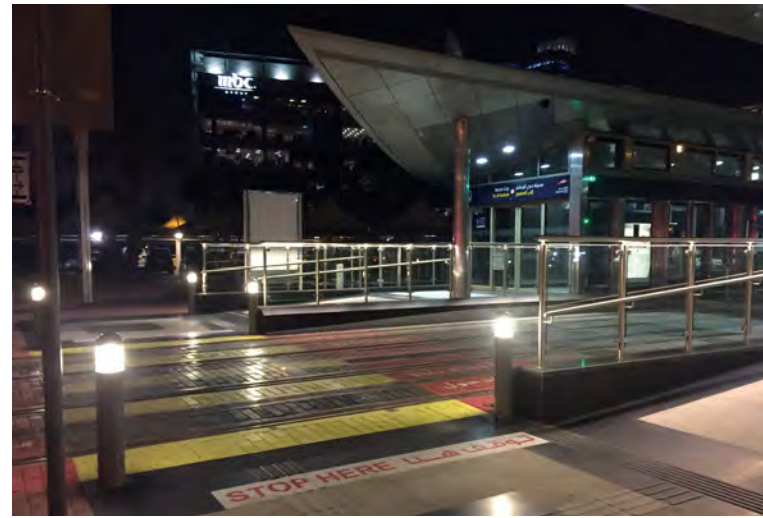
/C... - choice of anodising colour

- Application:** parks, pedestrian walkways, gardens
- Ingress protection:** IP65
- Material:** cylindrical aluminium tube, diffuser clear PMMA tube
- Mounting:** on concrete footing and rooted (marked "dz" in the name)
- Types of bollards:** with round and flat cap (marked .../P in the product code)
- Types of light sources:**
 - S – Sodium: 50 W, 70 W
 - MH – Metal halide: 70 W, 100 W
 - E/Z – energy-efficient source E-27
- Input voltage frequency:** 50 Hz



Name	Cap	Code / Light source / Total power						Height [H]	Concrete footing / reinforcement basket
		S-50 W	S-70 W	MH-70 W	MH-70 W Electronic	MH-100 W	LED		
		66 W	92 W	92 W	92 W	118 W	23 W		
		E-27	E-27	E-27	E-27	E-27	E-27		
SAMR 1200	round	450015/C...	450016/C...	450017/C...	450017E/C...	450018/C...	450021/C...	1245	B-0A / Z-0A
	flat	450015/C.../P	450016/C.../P	450017/C.../P	450017E/C.../P	450018/C.../P	450021/C.../P	1215	
SAMR 1200 dz	round	450074/C...	450075/C...	450076/C...	450076E/C...	450077/C...	450080/C...	1245	
	flat	450074/C.../P	450075/C.../P	450076/C.../P	450076E/C.../P	450077/C.../P	450080/C.../P	1215	
SAMR 1200 W	round	450022/C...	450023/C...	450024/C...	450024E/C...	450025/C...	450028/C...	1245	B-0A / Z-0A
	flat	450022/C.../P	450023/C.../P	450024/C.../P	450024E/C.../P	450025/C.../P	450028/C.../P	1215	
SAMR 1200 W dz	round	450081/C...	450082/C...	450083/C...	450083E/C...	450084/C...	450085/C...	1245	
	flat	450081/C.../P	450082/C.../P	450083/C.../P	450083E/C.../P	450084/C.../P	450085/C.../P	1215	

/C... - choice of anodising colour



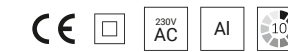
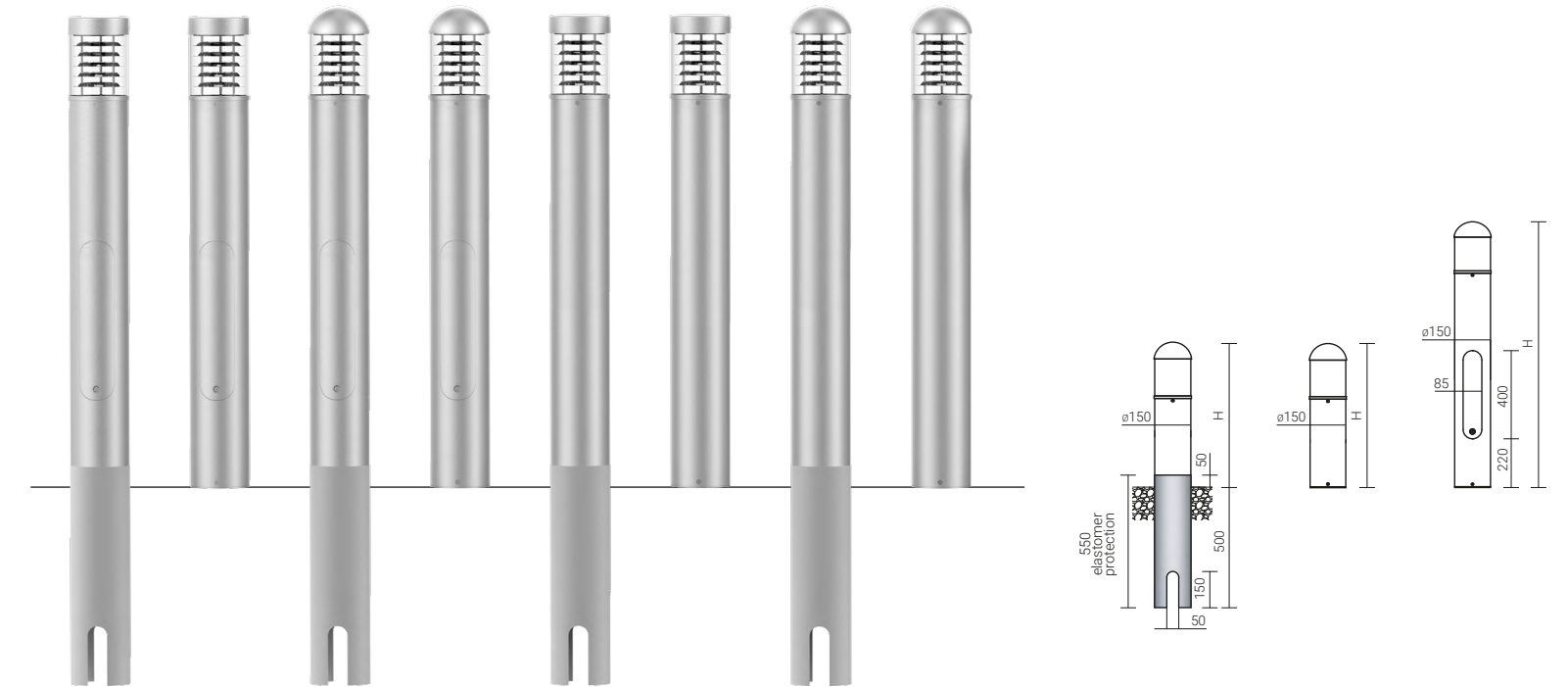
SAP világítóoszlop



Name	Cap	Code / Light source / Total power						Height [H]	Concrete footing / reinforcement basket
		S-50 W	S-70 W	MH-70 W	MH-70 W Electronic	MH-100 W	LED		
SAP 600	round	45030/C...	45031/C...	45032/C...	45032E/C...	45033/C...	45036/C...	645	B-0, B-0A / Z-0, Z-0A
	flat	45030/C.../P	45031/C.../P	45032/C.../P	45032E/C.../P	45033/C.../P	45036/C.../P	615	
SAP 600 dz	round	45088/C...	45089/C...	45090/C...	45090E/C...	45091/C...	45094/C...	645	
	flat	45088/C.../P	45089/C.../P	45090/C.../P	45090E/C.../P	45091/C.../P	45094/C.../P	615	
SAP 900	round	45037/C...	45038/C...	45039/C...	45039E/C...	45040/C...	45043/C...	945	B-0, B-0A / Z-0, Z-0A
	flat	45037/C.../P	45038/C.../P	45039/C.../P	45039E/C.../P	45040/C.../P	45043/C.../P	915	
SAP 900 dz	round	45095/C...	45096/C...	45097/C...	45097E/C...	45098/C...	45101/C...	945	
	flat	45095/C.../P	45096/C.../P	45097/C.../P	45097E/C.../P	45098/C.../P	45101/C.../P	915	

/C... - choice of anodising colour

Application: parks, pedestrian walkways, gardens
Ingress protection: IP65
Material: cylindrical aluminium tube, diffuser clear PMMA tube
Mounting: on concrete footing and rooted (marked "dz" in the name)
Types of bollards: with round and flat cap (marked .../P in the product code)
Types of light sources:
 S – Sodium: 50 W, 70 W
 MH – Metal halide: 70 W, 100 W
 E/Z – energy-efficient source E-27
Input voltage frequency: 50 Hz



Name	Cap	Code / Light source / Total power						Height [H]	Concrete footing / reinforcement basket
		S-50 W	S-70 W	MH-70 W	MH-70 W Electronic	MH-100 W	LED		
SAP 1200	round	45044/C...	45045/C...	45046/C...	45046E/C...	45047/C...	45050/C...	1245	B-0A / Z-0A
	flat	45044/C.../P	45045/C.../P	45046/C.../P	45046E/C.../P	45047/C.../P	45050/C.../P	1215	
SAP 1200 dz	round	45102/C...	45103/C...	45104/C...	45104E/C...	45105/C...	45108/C...	1245	
	flat	45102/C.../P	45103/C.../P	45104/C.../P	45104E/C.../P	45105/C.../P	45108/C.../P	1215	
SAP 1200 W	round	45051/C...	45052/C...	45053/C...	45053E/C...	45054/C...	45056/C...	1245	B-0A / Z-0A
	flat	45051/C.../P	45052/C.../P	45053/C.../P	45053E/C.../P	45054/C.../P	45056/C.../P	1215	
SAP 1200 W dz	round	45109/C...	45110/C...	45111/C...	45111E/C...	45112/C...	45115/C...	1245	
	flat	45109/C.../P	45110/C.../P	45111/C.../P	45111E/C.../P	45112/C.../P	45115/C.../P	1215	

/C... - choice of anodising colour

Betonlapok

Application:

- buried concrete footings are used as foundations for lighting columns

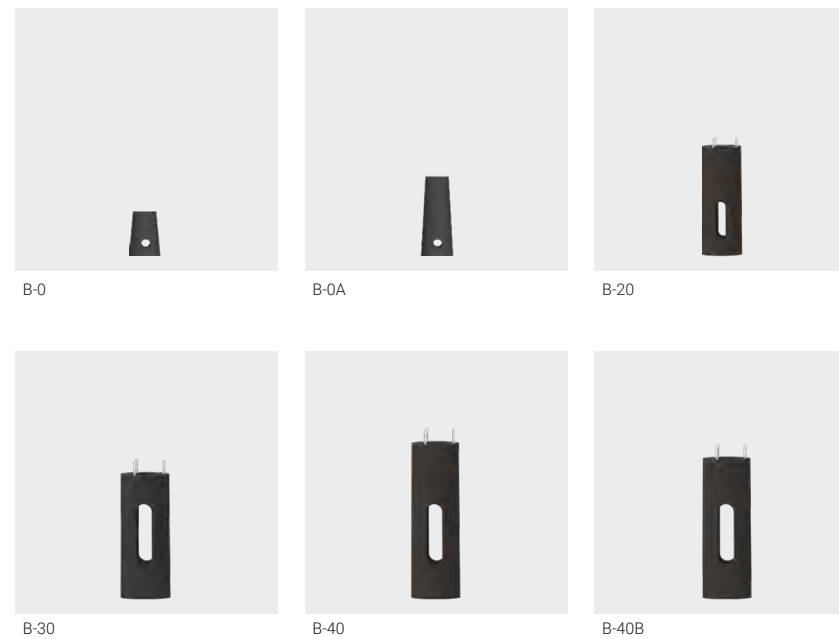
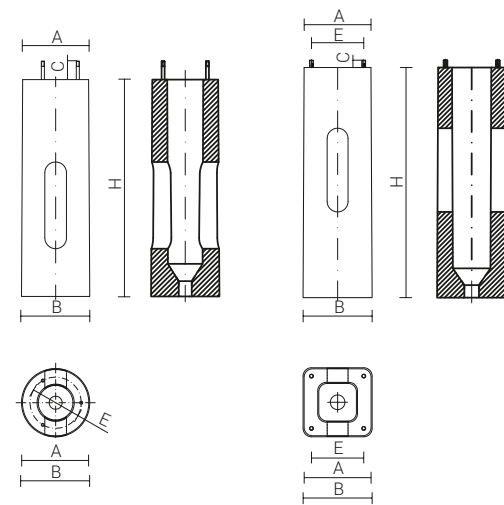
Technical information:

- concrete class 25/30 according standard EN 206-1,
- reinforcement basket made of B500 steel,
- threaded anchor endings hot galvanized,
- concrete footings for aluminium columns and aluminium flag poles are supplied with thermo-shrinkable sleeves installed on the threaded anchor endings, what protects against corrosion on threaded anchor ending,
- side holes and vertical hole to provide power cables,
- surface is covered with an impregnate agent (certified bitumen waterproofing emulsion),
- square section (aluminium columns and aluminium flag poles as well pole SP-5W and SP-31W) or round section (plastic coated poles).

Advantages:

- single-element construction makes easy foundation of products in the ground,
- fast and easy installation with no seasoning required,
- high quality due to the semi-automatic computer-controlled production line using the method of vibropressing.

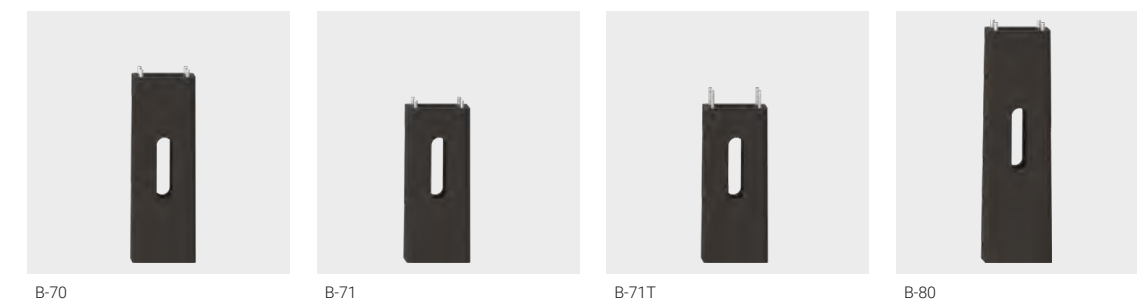
All concrete footings comply with standard EN 14991:2007 and have certificate of factory production control 1488-CPD-0208/Z.



Concrete footing type	B-0	B-0A	B-20	B-30	B-40	B-40B
Code	311100	311100A	311120	311130	311140	311140B
Shape			round			
Dimension A x B x H [mm]	ø150xø190x275	ø150xø190x490	ø250xø255x700	ø305xø315x800	ø305xø315x1000	ø305xø315x1000
Diameter / Bolt spacing E [mm]	120	120	190	205	205	205
Height of threaded anchor ending C [mm]	-	-	50	85	85	85
Weight [kg]	12	22	63	99	123	110
Fasteners	M8x20 A2 DIN 6921	M8x20 A2 DIN 6921	311002	311003	311003	311003
Application	SAP I SAMR 600-900, KARIN 450-900 LED	SAP I SAMR 1200 KARIN 1200 LED	S-13, S-23, SP-2	S-21, S-21W, S-22, S-30, S-30W, S-31, S-31W, S-32	S-52W, S-54W, SP-4, SP-4W, SM-1W, SM-2W, SM-3W	S-40, S-40W, SP-3, SP-3W



Concrete footing type	B-50	B-51	B-51A	B-60	B-60T
Code	311150	311151	311151A	311160	311160T
Shape	square				
Dimension A x B x H [mm]	240x255x900	260x275x1000	260x275x1200	320x330x1000	320x330x1000
Bolt spacing E [mm]	180	200	200	250	250
Height of threaded anchor ending C [mm]	30	35	35	35	90
Weight [kg]	96	124	148	176	178
Fasteners	4006	4008	4008	4008	4008
Application	SAL ø114/B60, SAL ø120	SAL ø114/D60, SAL ø114/D75, SAL ø120E	SAL ø114/D60, SAL ø114/D75, SAL ø120E, SAL ø146G, SAL DECO-1, SAL DECO-2	SAL ø146	SP-31W



Concrete footing type	B-70	B-71	B-71T	B-80
Code	311170	311171	311171T	311180
Shape	square			
Dimension A x B x H [mm]	400x410x1200	400x410x1000	400x410x1000	400x430x1500
Bolt spacing E [mm]	300	300	300	300
Height of threaded anchor ending C [mm]	45	45	110	50
Weight [kg]	296	255	255	392
Fasteners	4012	4012	4008	4012
Application	SAL ø176, SAL ø178K, SAL ø180M	SAL ø146H, SAL ø176, SAL ø178K, SAL ø180M	SP-5W	MAL ø225



Betonozókosarak

Application:

- buried concrete filled reinforcement baskets are used as foundations for lighting columns

Technical information:

- reinforcement basket made of B500 steel
- Oxide paint as a protection against corrosion resistant,
- threaded anchor endings hot galvanized,
- in reinforcement baskets for aluminium columns and aluminium flag poles are used thermo-shrinkable sleeves put on the threaded anchor endings in place of base plate deposition, what protects against corrosion on threaded anchor endings,
- square section (aluminium columns and aluminium flag poles as well pole SP-5W and SP-31W) or triangle (plastic coated poles).

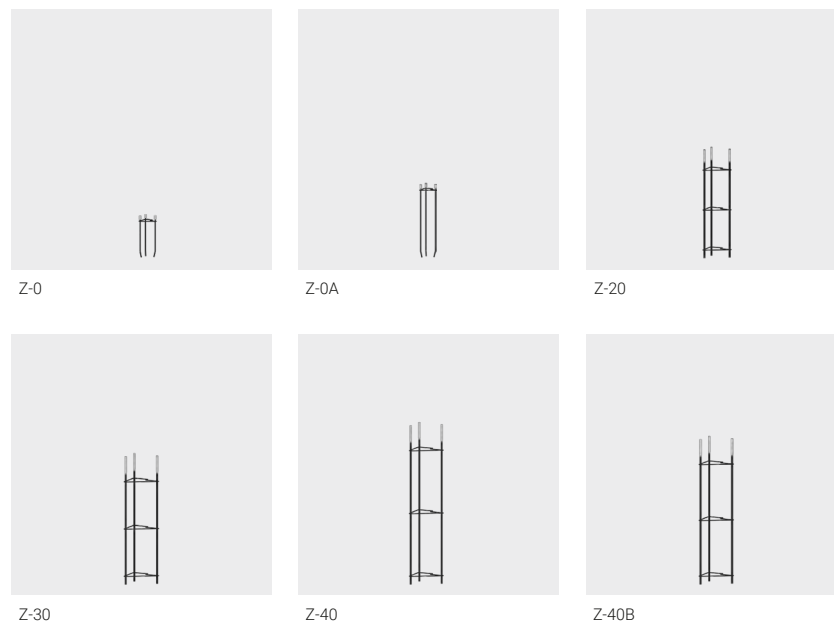
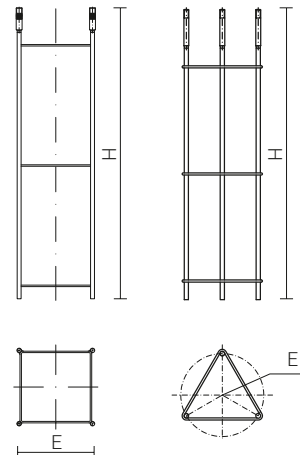
Advantages:

- light weight facilitates transport,
- for installation on customer footings

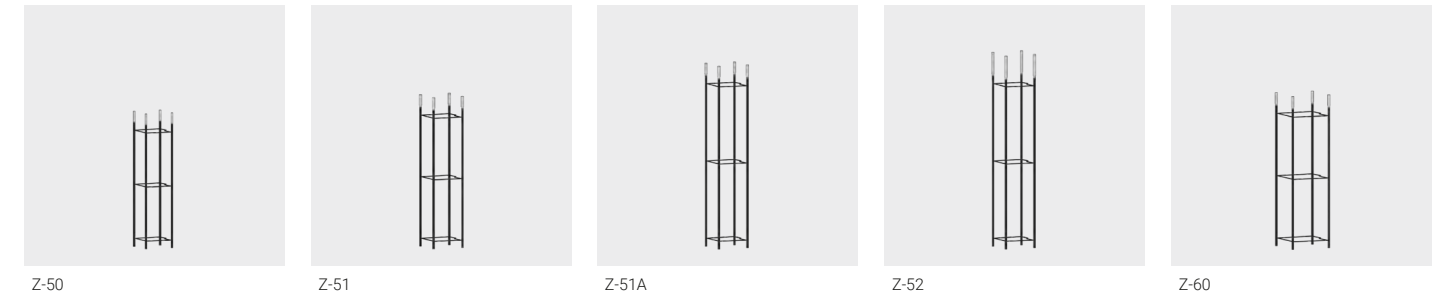
Additional elements:

- stainless washer, hot galvanized nut stainless washer are the fasteners sets available for columns SAL, MAL.
- stainless washer, hot galvanized nut, rubber cover plate for poles type S, SP, SM.

The manufacturer recommends using original concrete foundations, reinforcement baskets and fasteners guarantee stability and safety of whole construction.



Reinforcement basket type	Z-0	Z-0A	Z-20	Z-30	Z-40	Z-40B
Code	311200	311200A	311202	311203	311204	311204B
Shape	triangle					
Height H [mm]	270	470	700	825	1025	935
Bolt spacing E [mm]	120	120	190	205	205	205
Weight [kg]	0,5	0,7	2,21	2,78	3,32	3,07
Fasteners	M8x20 A2 DIN 6921	M8x20 A2 DIN 6921	311002	311003	311003	311003
Application	SAP i SAMR 600-900, KARIN 450-900 LED	SAP i SAMR 1200 KARIN 1200 LED	S-13, S-23, SP-2	S-21, S-21W, S-22, S-30, S-30W, S-31, S-31W, S-32	S-52W, S-54W, SP-4, SP-4W, SM-1W, SM-2W, SM-3W	S-40, S-40W, SP-3, SP-3W



Reinforcement basket type	Z-50	Z-51	Z-51A	Z-52	Z-60
Code	311205	311251	311251A	311252	311206
Shape	square				
Height H [mm]	870	975	1180	1250	985
Bolt spacing E [mm]	180	200	200	200	250
Weight [kg]	5,24	5,54	6,53	7,5	5,7
Fasteners	4006	4008	4008	4008	4008
Application	SAL ø114/B60, SAL ø120	SAL ø114/D60, SAL ø114/D75, SAL ø120E	SAL ø114/D60, SAL ø114/D75, SAL ø120E, SAL ø146G, SAL DECO-1, SAL DECO-2	SAL PROF DECOR LED for SAL PROF LED column assembly two sets of fasteners are needed	SAL ø146



Reinforcement basket type	Z-60T	Z-70	Z-71	Z-71T	Z-80
Code	311260T	311207	311271	311271T	311208
Shape	square				
Height H [mm]	1060	1190	965	1055	1500
Bolt spacing E [mm]	250	300	300	300	300
Weight [kg]	6,31	9,2	7,76	6,41	11,42
Fasteners	4008	4012	4012	4008	4012
Application	SP-31W	SAL ø176, SAL ø178K, SAL ø180M	SAL ø146H, SAL ø176, SAL ø178K, SAL ø180M	SP-5W	MAL ø225

Bekötődobozok

Connection box is an integral part of almost any lighting construction. It is used to connect power cables and electrical protection of luminaires mounted on columns and poles. It can be used in all columns and poles, where internal diameter is greater than 95 mm. The priority in the design of connection boxes is the safety of use, therefore they are made from high quality materials, excellent insulation properties and high mechanical strength.

- **ingress protection:** IP54
- **rated voltage:** 500V
- **rated current:** 80A
- **fuse:** D01/E14, 2-16A, 400V, AC
- **casings dimensions:** TB, NTB: 273 mmx90 mmx76 mm;
TB-11,TB-12: 273 mmx90 mmx64 mm
- **Material:**
 - integrated terminal strip – made of PTB material (butylene polyterephthalate) with high insulation parameters and high mechanical strenght
 - connection cover and clamp/cable protection – made of transparent polycarbonate
 - connection box base – made of polycarbonate reinforced by fibre glass, cable opening/outlets are protected with gaskets
- **Assembly:** installed on the aluminium rail on the back wall of the column using two bolts M6

- Advantages:**
- small dimensions,
 - quick, easy mounting due to the construction,
 - all connection boxes are for 2-3 cables,
 - construction of terminal strip (open from the top) enables cable installation.



Connection box installed in aluminium column

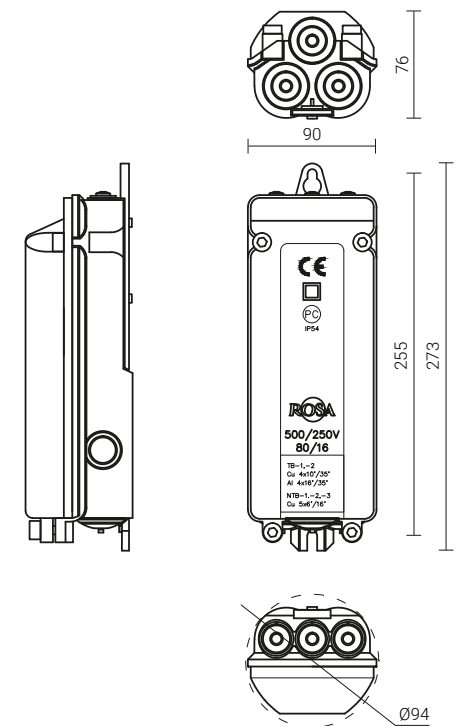


Connection box installed in plastic coated pole

NTB bekötődobozok

Connection boxes NTB-1, NTB-2, NTB-3

- 5 tracks connection boxes for feeder cables with cross-section from 5 x 6 mm² up 5 x 16 mm²
- max. 3 cables
- the the option of splitting load into particular phases
- the the option of moving the fuse-sockets



Code	Name	Number of fuse-sockets [pcs]	Weight
324110	NTB-1	One fuse-socket mounted on L1 phase, there is a the option of moving the fuse-socket on phase L2 or L3 by screwing-out two bolts	0,71 kg
324120	NTB-2	Two fuse-socket mounted on L1 and L2 phase, there is a the option of moving the fuse-socket into phase L3 by screwing-out two bolts	0,73 kg
324130	NTB-3	Three fuse-sockets on three phases L1, L2, L3	0,76 kg

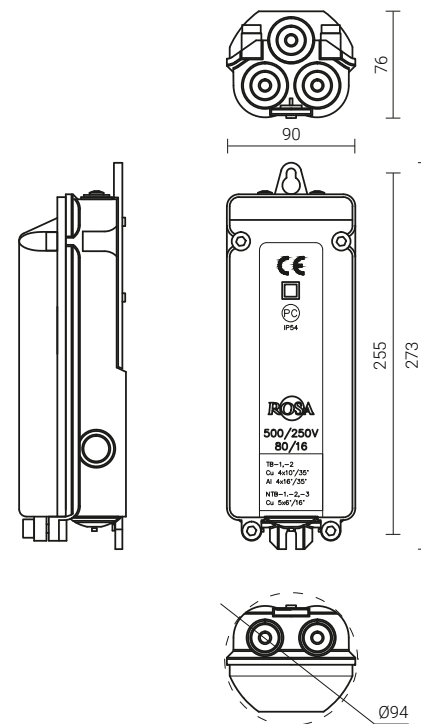
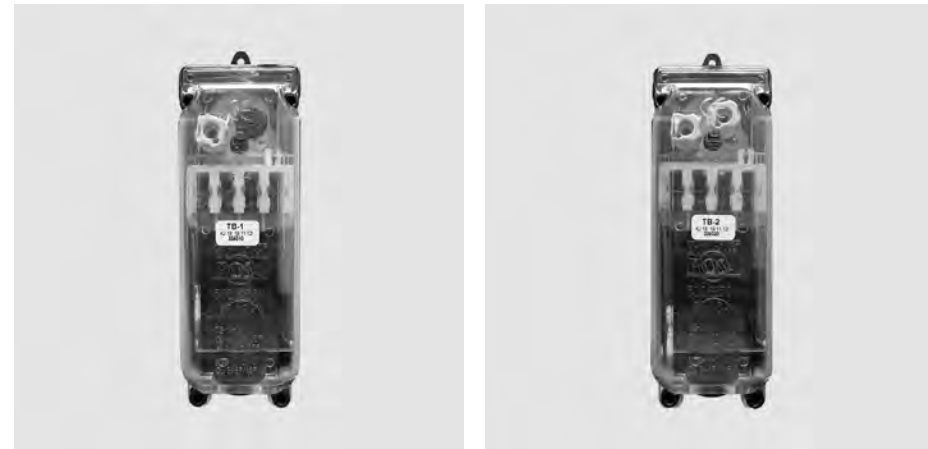
Fuses

Code	Name	Weight
322006	D01/E14 6A	0,01 kg
322010	D01/E14 10A	0,01 kg
322016	D01/E14 16A	0,01 kg

TB-1 / TB-2 bekötődobozok

Connection boxes TB-1 / TB-2

- connection box with 4 tracks for feeder cables with cross-section from 4 x 10 mm² up 4 x 35 mm²
- max. 3 cables
- the the option of moving the fuse-sockets



Code	Name	Number of fuse-sockets [pcs]	Weight
324010	TB-1	One fuse-socket mounted on L1 phase, there is a the option of moving the fuse-socket on phase L3 by screwing-out two bolts	0,71 kg
324020	TB-2	Three fuse-sockets on two phases L1 and L3	0,74 kg

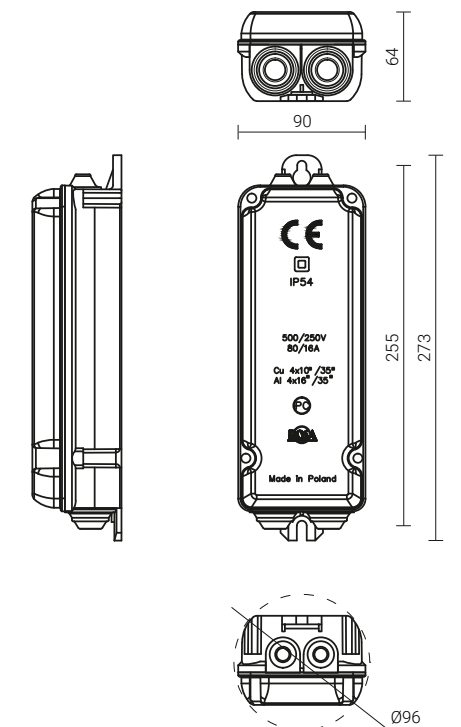
Fuses

Code	Name	Weight
322006	D01/E14 6A	0,01 kg
322010	D01/E14 10A	0,01 kg
322016	D01/E14 16A	0,01 kg

TB-11 / TB-12 bekötődobozok

Connection boxes TB-11 / TB-12

- zconnection boxes with 4 tracks for feeder cables with cross-section from 4 x 10 mm² up 4 x 35 mm²
- max. 2 cables
- simplified installation of cables ensure easier and more ergonomic operation
- smaller size provides more opportunities of applications
- the the option of moving the fuse-sockets



Code	Name	Number of fuse-sockets [pcs]	Weight
324011	TB-11	One fuse-socket mounted on L1 phase, there is a the option of moving the fuse-socket on phase L2 or L3 by screwing-out two bolts	0,71 kg
324012	TB-12	Two fuse-socket mounted on two phases L1 and L2	0,74 kg

Fuses

Code	Name	Weight
322006	D01/E14 6A	0,01 kg
322010	D01/E14 10A	0,01 kg
322016	D01/E14 16A	0,01 kg

Reflektor

Application: installation in park luminaire

Material: stainless steel

Assembly: no tools necessary, by screwing into luminare casing, with OS-1 to assembly directly to mounting plate

Function: directing light transmittance, limiting the glare of light, decoration



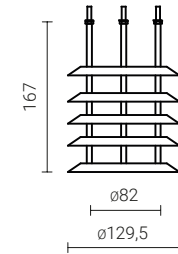
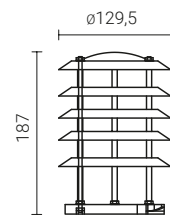
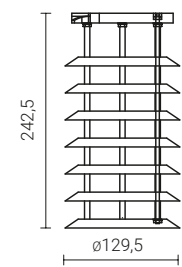
Louvre reflector big stainless steel



Louvre reflector small stainless steel



Louvre reflector small stainless steel for OS-1 luminaire



Code	Name	Luminaire type	Lamp holder type	Unit volume	Weight
911116	Big louvre reflector mounted upwards	OP, OPA-1	E-40	0,004 m ³	0,40 kg
911117	Big louvre reflector mounted downwards	OP, OW	E-40	0,004 m ³	0,40 kg
911126	Small louvre reflector mounted upwards	OP, OPA-1	E-27	0,004 m ³	0,30 kg
911127	Small louvre reflector mounted downwards	OP, OW	E-27	0,004 m ³	0,30 kg
911307	OS-1 louvre reflector	OS-1	E-27	0,004 m ³	0,25 kg

Díszítő elemek

Application: aluminium columns with spigot endings Ø60 mm and Ø76 mm

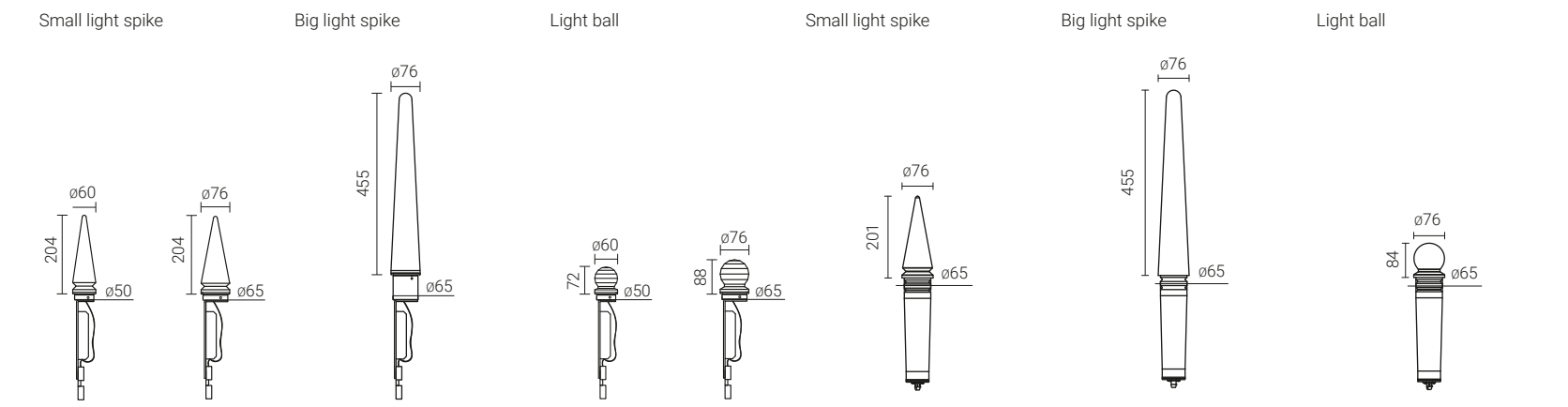
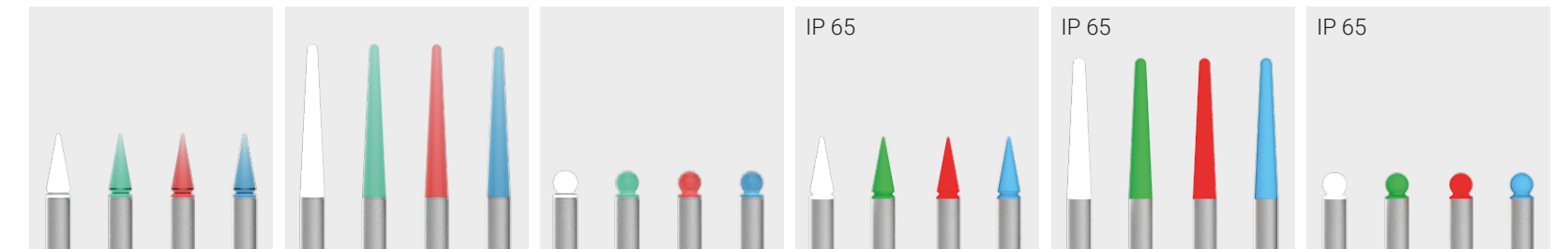
Ingress protection: : IP 65 or IP 44 (after mounting on the column)

Material: PMMA (IP 44), HDPE (IP 65)

Colour: blue, green, red, white

Installation: with 3 screws M5, after preparing mounting holes in the column

Input voltage frequency: 50/60 Hz



Name	Colour	Code								
		IP 44			IP 65			IP 65		
		mounting diameter [mm] Ø76	LED power	Luminaire power consumption	mounting diameter [mm] Ø60	LED power	Luminaire power consumption	mounting diameter [mm] Ø76	LED power	Luminaire power consumption
Big light spike	Blue	4038	6 W	7 W	-	-	-	40380	6 W	7 W
	Green	4039	6 W	7 W	-	-	-	40390	6 W	7 W
	Red	4040	6 W	7 W	-	-	-	40400	6 W	7 W
	White	4041	6 W	7 W	-	-	-	40410	6 W	7 W
Small light spike	Blue	4050	1 W	1,2 W	4034	1 W	1,2 W	40500	6 W	7 W
	Green	4051	1 W	1,2 W	4035	1 W	1,2 W	40510	6 W	7 W
	Red	4052	1 W	1,2 W	4036	1 W	1,2 W	40520	6 W	7 W
	White	4053	1 W	1,2 W	4037	1 W	1,2 W	40530	6 W	7 W
Kulka świecąca	Blue	4046	1 W	1,2 W	4030	1 W	1,2 W	40460	6 W	7 W
	Green	4047	1 W	1,2 W	4031	1 W	1,2 W	40470	6 W	7 W
	Red	4048	1 W	1,2 W	4032	1 W	1,2 W	40480	6 W	7 W
	White	4049	1 W	1,2 W	4033	1 W	1,2 W	40490	6 W	7 W

Szimbólumok



European mark for electrical products – ENEC



Symbol CE



Insulation class I



Insulation class II



Ingress protection IP65



Ingress protection IP66



Input voltage 230 V AC



Input voltage 220-240 V AC



Possibility to connect to an external control system via DALI



Surge protection device 10 kV



Operating temperature range from -40° to +55°



Operating temperature range from -40° to +40°



Material aluminium



Symbol CE, Standard EN 40



100-NE-C-S-SE-MD-0 – energy absorption levels according to standard EN 12767:2019



The option of anodising in 10 colours

