CORE LED

TECHNICAL DATA

Application	residential roads (internal), surrounding office buildings, parks, pedestrians
Colour	graphite / black
Ingress protection	IP 66 for the optical part and the driver
Optical system	PMMA optics, interchangeable LED module
Material	anodised aluminium alloy
Unit volume	1.75 m³
Expected useful lifetime	L90B10 - 100 000 h
CRI	>70
Inrush current	18 A / 280 µs (CORE LED 24) 46 A / 250 µs (CORE LED 48)
Input voltage frequency	50/60Hz
Power factor	≥0.95
Number of LED	12 (24 W), 24 (48 W)
Control system	LED lighting set has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).

Carbon footprint (kg of CO_2 eq.) 89.29 kg

TABLE OF VARIANTS

Code	Symbol	Height of the column [H]	LED power	Luminaire power consumption	LED forward current	Colour temperature (CCT)	LEDs luminous flux[1]	Luminaire luminous flux[1]	Luminous efficacy[1]	Concrete footing / reinforcement basket type	Net weight
216530/1/...[2]	CORE LED 24	5 m	24 W	28 W	700 mA	2700 K	4050 lm	2950 lm	105 lm/W	B-50 / Z-50	42 kg
216530/3/...[2]	CORE LED 24	5 m	24 W	28 W	700 mA	3500 K	4350 lm	3150 lm	113 lm/W	B-50 / Z-50	42 kg
216530/4/...[2]	CORE LED 24	5 m	24 W	28 W	700 mA	4000 K	4550 lm	3350 lm	120 lm/W	B-50 / Z-50	42 kg
216530/6/...[2]	CORE LED 24	5 m	24 W	28 W	700 mA	5000 K	4550 lm	3350 lm	120 lm/W	B-50 / Z-50	42 kg
216533/1/...[2]	CORE LED 48	5 m	48 W	55 W	700 mA	2700 K	8150 lm	5950 lm	108 lm/W	B-50 / Z-50	42 kg
216533/3/...[2]	CORE LED 48	5 m	48 W	55 W	700 mA	3500 K	8650 lm	6300 lm	115 lm/W	B-50 / Z-50	42 kg
216533/4/...[2]	CORE LED 48	5 m	48 W	55 W	700 mA	4000 K	9150 lm	6700 lm	122 lm/W	B-50 / Z-50	42 kg
216533/6/...[2]	CORE LED 48	5 m	48 W	55 W	700 mA	5000 K	9150 lm	6700 lm	122 lm/W	B-50 / Z-50	42 kg

1) tolerance +/- 5% due to LEDs accuracy
2) symbol of chosen optical system eg. 216530/6/T2 is CORE LED 24 5000K with T2 optical system

DIRECTIVES AND STANDARDS

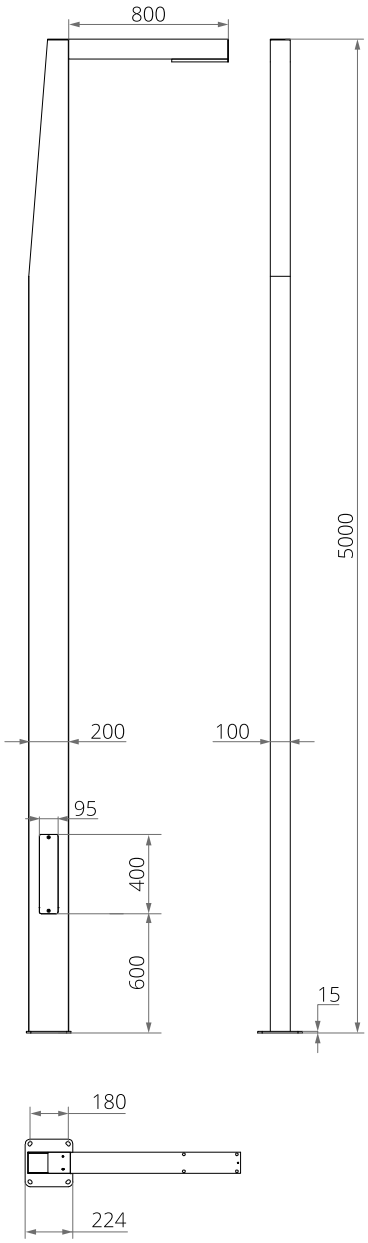
DIRECTIVES: 2014/35/UE (Official Journal of the UE L 96/357 29.03.2014), 2014/30/UE (Official Journal of the UE L 96/79 29.03.2014), 2011/65/UE RoHS (Official Journal of the UE L 174/88 01.07.2011), 2009/125/EC(Official Journal of the UE L 285/10 31.10.2009)
STANDARDS: PN-EN IEC 60598-1: 2021-7, PN-EN 60598-2-3: 2006, PN-EN 60529: 2003, PN-EN 62262: 2003, PN-EN 62471:2010, PN-EN 55015: 2019, PN-EN 61547: 2009, PN-EN 61000-3-2: 2019 , PN-EN 61000-3-3: 2014

Lighting parameters presented based on laboratory tests according to IESNA LM-79-19

Zakład Produkcji Sprzętu Oświetleniowego „ROSA” Sp. z o.o.
43-109 Tychy, ul. Strefowa 1 tel. +48 32 73 88 901
www.rosa.pl

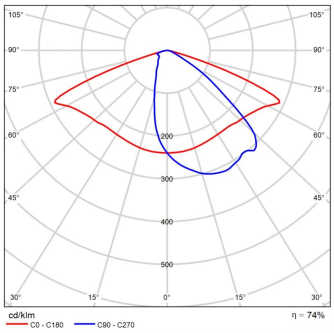
CORE LED

TECHNICAL DRAWING

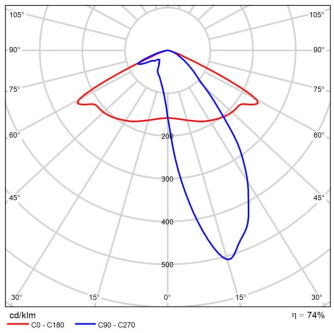


PHOTOMETRIC CURVES

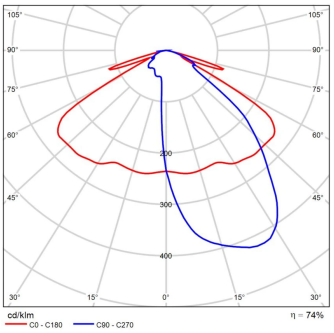
DW



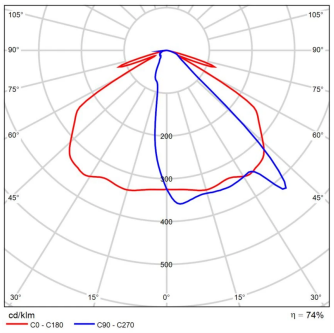
T2



T3



ME



Updated at: 22-06-2026

Zakład Produkcji Sprzętu Oświetleniowego „ROSA” Sp. z o.o.
43-109 Tychy, ul. Strefowa 1 tel. +48 32 73 88 901
www.rosa.pl

CORE LED

POWER SYSTEM FUNCTIONS

Luminaire in standard has following functions of intelligent power supply:

– Connection to outside control system by DALI interface (operation of analog signal 1-10V as an option),
– Possibility of programming multistage dimming of luminaire, up to 5 intervals in the range of from 10 to 100% of nominal power,
– LED module equipped with thermal protection implemented via an NTC thermistor,
– Regulation of power / luminous flux – the option of setting another value than the catalogue in the range of 30-100% of nominal one,

ACCETABLE QUANTITY OF LUMINAIRES ON ONE CIRCUIT

Overcurrent switches MCB type B or C

Lighting set	Type	2A	4A	6A	10A	16A	20A	25A
CORE LED 24W	B	3	6	10	16	26	32	40
	C	3	10	16	27	44	54	67
CORE LED 48W	B	1	2	4	6	11	13	17
	C	1	4	6	11	18	22	28

Fuse – type gG and GL

Lighting set	2A	4A	6A	10A	16A	20A	25A
CORE LED 24W	1	10	19	25	50	68	97
CORE LED 48W	0	4	8	11	21	29	42

ACCEPTABLE HEIGHT

CORE LED	Acceptable height of the LED lighting set			
Field category	I zone Vref. = 22 m/s	I & III zone, up to 450m a.s.l. Vref. = 24 m/s	II zone Vref. = 26 m/s	III zone up to 755m a.s.l. Vref. = 28 m/s
I	6	5,5	5	4,5
II	6	6	5,5	5
III	6	6	6	5,5
IV	6	6	6	6

Zakład Produkcji Sprzętu Oświetleniowego „ROSA” Sp. z o.o.
43-109 Tychy, ul. Strefowa 1 tel. +48 32 73 88 901
www.rosa.pl