

TECHNICAL DATA

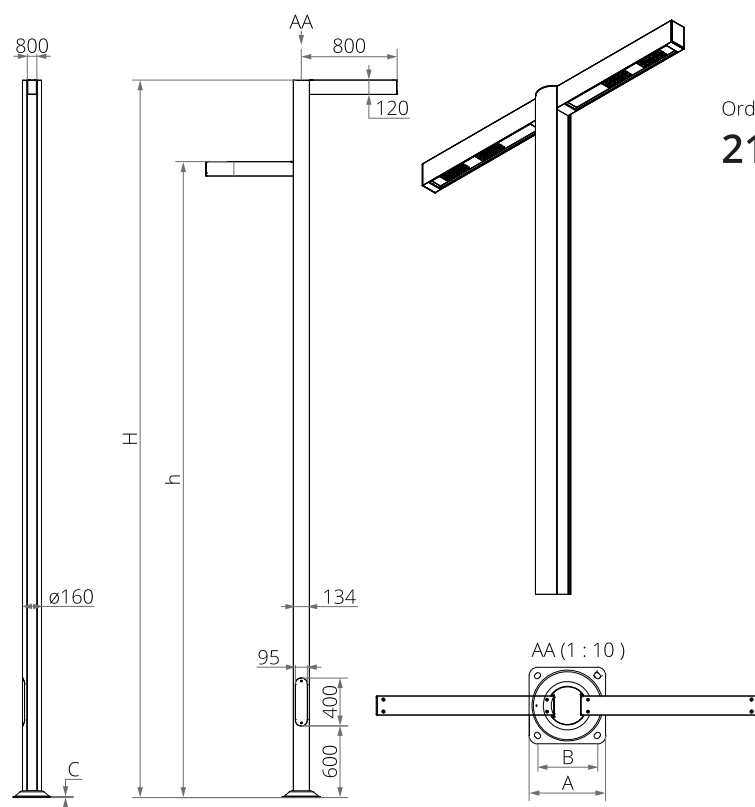
Application	urban roads, residential roads (internal), surrounding office buildings, parks, pedestrians, parkings
Colour	inox / grey
Ingress protection	IP 66 for the optical part and the driver
Optical system	PMMA optics, interchangeable LED module
Material	anodised aluminium alloy
Unit volume	0,50 m³ (BEAM II LED 4,0 m) 0,60 m³ (BEAM II LED 5,0 m) 0,80 m³ (BEAM II LED 6,0 m) 1,10 m³ (BEAM II LED 7,0 m) 1,30 m³ (BEAM II LED 8,0 m)
Expected useful lifetime	L90B10 - 100 000 h
CRI	>70
Inrush current	42 A / 225 µs (BEAM II LED 24 - 36) 110 A / 200 µs (BEAM II LED 48 - 72)
Input voltage frequency	50/60Hz
Power factor	≥0.95
Number of LED	2x12 (24 W, 36 W); 2x24 (48 W, 60 W, 72 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).



TABLE OF VARIANTS - HEIGHTS

Symbol	Height [H]	Dimension of the base plate ([A]/[B]/[C])	Concrete footing / reinforcement basket type	Concrete footing / reinforcement basket code	Fasteners	Net weight
BEAM I LED	4,0 m - 40	224 / 180 / 8	B-50 / Z-50	311150 / 311205	4006	28,0 kg
BEAM I LED	5,0 m - 50	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	35,5 kg
BEAM I LED	6,0 m - 60	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	41,0 kg
BEAM I LED	7,0 m - 70	400 / 300 / 10	B-70, B-71 / Z-70, Z-71	311170, 311171 / 311207, 311271	4012	49,0 kg
BEAM I LED	8,0 m - 80	400 / 300 / 12	B-70, B-71 / Z-70, Z-71	311170, 311171 / 311207, 311271	4012	54,5 kg

HOW TO GENERATE VARIANT CODES



Order code

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

Arm height #2 - h

40 - 4 m
45 - 4,5 m
50 - 5 m
55 - 5,5m
60 - 6 m
65 - 6,5m
70 - 7 m
75 - 7,5m
80 - 8 m

Arm power variant #2

e.g. 30/4/T2 is
BEAM II LED 24, 4000K,
T2 optics

Arm height #1 - H

40 - 4 m
45 - 4,5 m
50 - 5 m
55 - 5,5m
60 - 6 m
65 - 6,5m
70 - 7 m
75 - 7,5m
80 - 8 m

Arm power variant #1

e.g. 32/3/T3 is
BEAM II LED 36, 3500K,
T3 optics

TABLE OF VARIANTS - LIGHTING

Code	Symbol	LED power	Luminaire Power consumption	LED forward current	Colour temperature (CCT)	LEDs luminous flux ¹	Luminaire luminous flux ¹	Luminous efficacy
30/1/...2	BEAM II LED 24	24 W	28 W	700 mA	2700 K	4050 lm	3250 lm	116 lm/ W
30/3/...2	BEAM II LED 24	24 W	28 W	700 mA	3500 K	4350 lm	3500 lm	125 lm/ W
30/4/...2	BEAM II LED 24	24 W	28 W	700 mA	4000 K	4550 lm	3650 lm	130 lm/ W
30/6/...2	BEAM II LED 24	24 W	28 W	700 mA	5000 K	4550 lm	3650 lm	130 lm/ W
32/1/...2	BEAM II LED 36	36 W	40 W	1000 mA	2700 K	5450 lm	4400 lm	110 lm/ W
32/3/...2	BEAM II LED 36	36 W	40 W	1000 mA	3500 K	5800 lm	4700 lm	118 lm/ W
32/4/...2	BEAM II LED 36	36 W	40 W	1000 mA	4000 K	6150 lm	4950 lm	124 lm/ W
32/6/...2	BEAM II LED 36	36 W	40 W	1000 mA	5000 K	6150 lm	4950 lm	124 lm/ W
33/1/...2	BEAM II LED 48	48 W	55 W	700 mA	2700 K	8150 lm	6600 lm	120 lm/ W
33/3/...2	BEAM II LED 48	48 W	55 W	700 mA	3500 K	8650 lm	7000 lm	127 lm/ W
33/4/...2	BEAM II LED 48	48 W	55 W	700 mA	4000 K	9150 lm	7400 lm	135 lm/ W
33/6/...2	BEAM II LED 48	48 W	55 W	700 mA	5000 K	9150 lm	7400 lm	135 lm/ W
34/1/...2	BEAM II LED 60	60 W	67 W	830 mA	2700 K	9300 lm	7500 lm	112 lm/ W
34/3/...2	BEAM II LED 60	60 W	67 W	830 mA	3500 K	9850 lm	7950 lm	119 lm/ W
34/4/...2	BEAM II LED 60	60 W	67 W	830 mA	4000 K	10450 lm	8450 lm	126 lm/ W
34/6/...2	BEAM II LED 60	60 W	67 W	830 mA	5000 K	10450 lm	8450 lm	126 lm/ W
35/1/...2	BEAM II LED 72	72 W	79 W	1000 mA	2700 K	10900 lm	8800 lm	111 lm/ W

Code	Symbol	LED power	Luminaire Power consumption	LED forward current	Colour temperature (CCT)	LEDs luminous flux ¹	Luminaire luminous flux ¹	Luminous efficacy
35/3/...2	BEAM II LED 72	72 W	79 W	1000 mA	3500 K	11600 lm	9350 lm	118 lm/ W
35/4/...2	BEAM II LED 72	72 W	79 W	1000 mA	4000 K	12300 lm	9950 lm	126 lm/ W
35/6/...2	BEAM II LED 72	72 W	79 W	1000 mA	5000 K	12300 lm	9950 lm	126 lm/ W

1) tolerance +/- 5% due to LEDs accuracy

2) symbol of chosen optical system eg. 30/6/T2 is a bracket BEAM II LED 24 with T2 optical system, 5000 K

Finish: option of elastomer protection in the colour of LED lighting sets up to the height of 350 mm (as standard for CI63, CI65, CI75, CI78 interference colors)

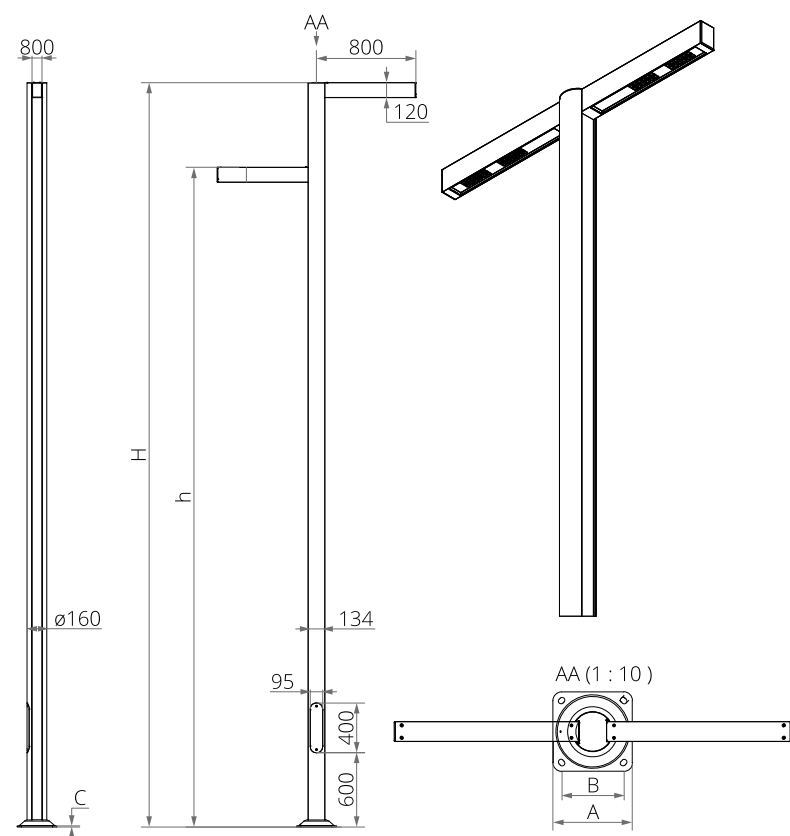
DIRECTIVES AND STANDARDS

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)

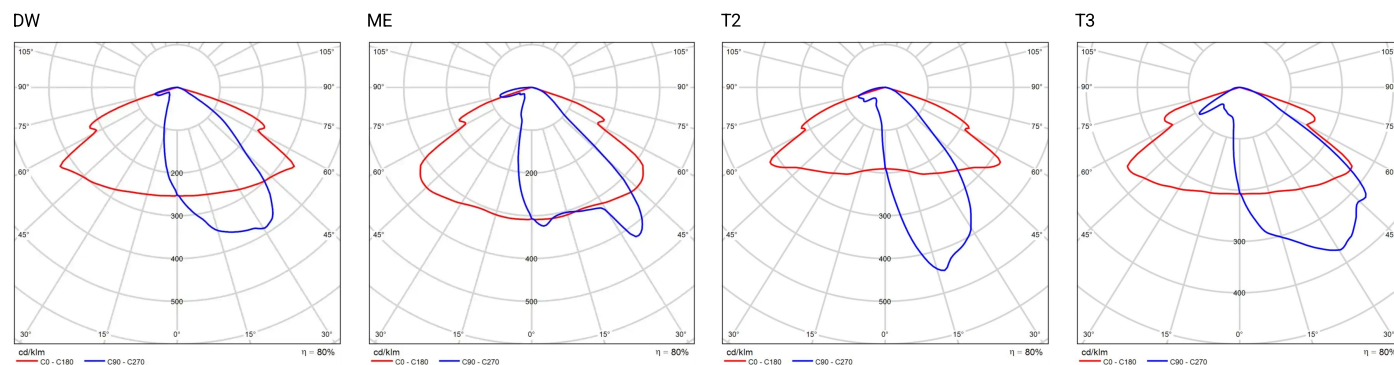
STANDARDS: PN-EN IEC 60598-1: 2021-7, PN-EN 60598-2-3: 2006, PN-EN 60529: 2003, PN-EN 62262: 2003, PN-EN 62471:2010, PN-EN 55015: 2019, PN-EN 61547: 2009, PN-EN 61000-3-2: 2019 , PN-EN 61000-3-3: 2014

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

TECHNICAL DRAWING



PHOTOMETRIC CURVES



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 sets	Type	2A	4A	6A	10A	16A	20A	25A
BEAM II LED 24W, 36W	B	3	6	10	16	26	32	40
	C	3	10	16	27	44	54	67
BEAM II LED 48W, 60W, 72W	B	1	2	4	6	11	13	17
	C	1	4	6	11	18	22	28

Fuse – type gG and GL

Lighting sets	2A	4A	6A	10A	16A	20A	25A
BEAM II LED 24W, 36W	1	10	19	25	50	68	97
BEAM II LED 48W, 60W, 72W	0	4	8	11	21	29	42

ACCEPTABLE HEIGHT

BEAM II 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	7	6,5	6	6
II	7,5	6,5	6	6
III	8	7	6,5	6,5
IV	8	8	7,5	7