

# BEAM I LED



**Application:** residential roads (internal), surrounding office buildings, parks, pedestrians, parkings, urban roads

**Ingress protection:** IP 66 dla części optycznej i układu zasilającego

**Material:** anodised aluminium alloy

**Colour:** inox / grey

**Optical system:** PMMA optics, interchangeable LED module

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

**Operating temperature range:** from -40°C to +55°C

**Expected useful lifetime:** L90F10 - 50 000 h, L80F20 - 100000 h

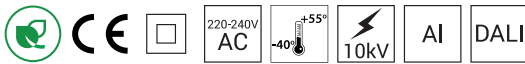
**CRI:** >80 for 3500K, 2700K; >70 for 5000K, 4000K

**Input voltage frequency:** 50 - 60Hz

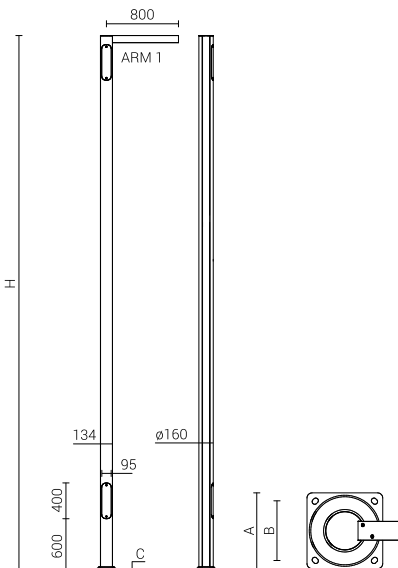
**Power factor:**  $\geq 0.95$

**Inrush current:** : 46A / 250 $\mu$ s

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



Symbol	Height [H]	Dimension of the base plate (side [A]/ bolt spacing [B]/ thickness [C])	Concrete footing / reinforcement basket type	Concrete footing / reinforcement basket code	Fasteners	Net weight	Approximate unit volume
BEAM I LED	4,0m	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	27,0kg	0,50m <sup>3</sup>
BEAM I LED	5,0m	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	32,0kg	0,60m <sup>3</sup>
BEAM I LED	6,0m	320 / 250 / 10	B-60 / Z-60	311160 / 311206	4008	38,0kg	0,80m <sup>3</sup>
BEAM I LED	7,0m	400 / 300 / 10	B-70, B-71 / Z-70, Z-71	311170, 311171 / 311207, 311271	4012	45,5kg	1,10m <sup>3</sup>
BEAM I LED	8,0m	400 / 300 / 12	B-70, B-71 / Z-70, Z-71	311170, 311171 / 311207, 311271	4012	54,0kg	1,30m <sup>3</sup>



Order code

2160000/32/3/T3

**Arm height #1 - H**

40 = 4,0m  
45 = 4,5m  
50 = 5,0m  
55 = 5,5m  
60 = 6,0m  
65 = 6,5m  
70 = 7,0m  
75 = 7,5m  
80 = 8,0m

**Arm power variant #1**

for example 32/3/T3 = arm  
BEAM I LED 36 3500K  
with optics T3

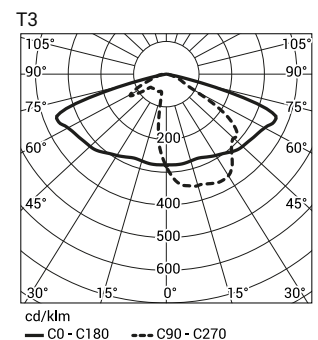
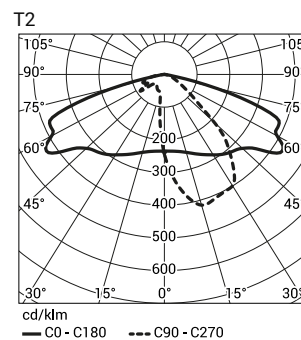
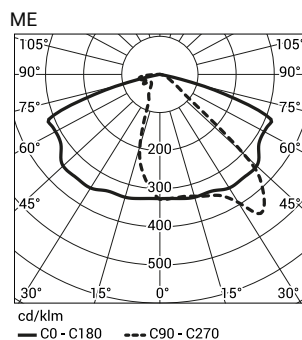
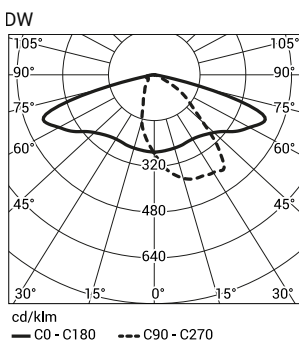
Code	Symbol	LED power	Luminaire Power consumption	LED forward current	Colour temperature (CCT)	LEDs luminous flux <sup>2)</sup>	Luminaire luminous flux <sup>2)</sup>	Luminous efficacy
30/1/... <sup>1)</sup>	BEAM I LED 24	24W	28W	700mA	2700K	3 600lm	2900lm	104lm/W
30/3/... <sup>1)</sup>	BEAM I LED 24	24W	28W	700mA	3500K	3 700lm	3000lm	108lm/W
30/4/... <sup>1)</sup>	BEAM I LED 24	24W	28W	700mA	4000K	4 200lm	3400lm	122lm/W
30/6/... <sup>1)</sup>	BEAM I LED 24	24W	28W	700mA	5000K	4 250lm	3450lm	124lm/W
32/1/... <sup>1)</sup>	BEAM I LED 36	36W	40W	1000mA	2700K	4 900lm	3950lm	99lm/W
32/3/... <sup>1)</sup>	BEAM I LED 36	36W	40W	1000mA	3500K	5 100lm	4150lm	104lm/W
32/4/... <sup>1)</sup>	BEAM I LED 36	36W	40W	1000mA	4000K	5 800lm	4700lm	118lm/W
32/6/... <sup>1)</sup>	BEAM I LED 36	36W	40W	1000mA	5000K	5 900lm	4800lm	120lm/W
33/1/... <sup>1)</sup>	BEAM I LED 48	48W	55W	700mA	2700K	7 050lm	5700lm	104lm/W
33/3/... <sup>1)</sup>	BEAM I LED 48	48W	55W	700mA	3500K	7 350lm	5950lm	109lm/W
33/4/... <sup>1)</sup>	BEAM I LED 48	48W	55W	700mA	4000K	8 400lm	6800lm	124lm/W
33/6/... <sup>1)</sup>	BEAM I LED 48	48W	55W	700mA	5000K	8 450lm	6850lm	125lm/W
34/1/... <sup>1)</sup>	BEAM I LED 60	60W	67W	830mA	2700K	8 150lm	6600lm	99lm/W
34/3/... <sup>1)</sup>	BEAM I LED 60	60W	67W	830mA	3500K	8 500lm	6900lm	103lm/W
34/4/... <sup>1)</sup>	BEAM I LED 60	60W	67W	830mA	4000K	9 650lm	7850lm	118lm/W
34/6/... <sup>1)</sup>	BEAM I LED 60	60W	67W	830mA	5000K	9 850lm	8000lm	120lm/W
35/1/... <sup>1)</sup>	BEAM I LED 72	72W	79W	1000mA	2700K	9 450lm	7650lm	97lm/W
35/3/... <sup>1)</sup>	BEAM I LED 72	72W	79W	1000mA	3500K	9 900lm	8050lm	102lm/W
35/4/... <sup>1)</sup>	BEAM I LED 72	72W	79W	1000mA	4000K	11 250lm	9150lm	116lm/W
35/6/... <sup>1)</sup>	BEAM I LED 72	72W	79W	1000mA	5000K	11 450lm	9300lm	118lm/W

1) symbol of chosen optical system eg. 30/3/T2 is a bracket BEAM I LED 24 with T2 optical system, 3500K

2) tolerance +/- 3% due to LEDs accuracy

Directive: 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, 2009/125/EC

Finish: option of elastomer protection in the colour of LED lighting sets up to the height of 350 mm (as standard for C163, C165, C175, C178 interference colors)



### BEAM I LED 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,
- Temperature protection of LED module (from overheating) in case of unintentional luminaire operation during the,
- Regulation of power / luminous flux – the option of setting another value than the catalogue in the range of 30-100% of nominal one,

# BEAM I LED

Acceptable quantity of luminaires BEAM I LED on one circuit, protected by:

Overcurrent switches MCB type B or C

Luminaire	Type	2A	4A	6A	10A	16A	20A	25A
BEAM I LED 24, 36W	B	2	4	8	12	20	25	31
	C	2	8	12	20	34	41	52
BEAM I LED 48, 60, 72W	B	1	2	4	6	11	13	17
	C	1	4	6	11	18	22	28

Fuse – type gG and GL

Luminaire	2A	4A	6A	10A	16A	20A	25A
BEAM I LED 24, 36W	4	9	14	25	39	50	62
BEAM I LED 48, 60, 72W	1	2	11	19	30	38	47