

# Zoom LED

## Three-phase electrified track

Adjustable focus projector made of die-cast aluminium which integrates the power of 9 high-efficiency LEDs. Patented optics, consisting of a system of variable focus PMMA lenses to adjust the beam of light with an angle between 10° and 40°. Adjustment is continuous and is obtained by a regulator on the rear. The fixture can be oriented on both the horizontal and the vertical axis. The Zoom Led system envisages the use of a vast range of accessories for the creation of a three-phase electrified track; The adaptor supplied allows the spotlight to be used on most of the three-phase electrified tracks available on the market. The Zoom Led range has been designed specifically for accent lighting, where it is essential to enhance the items on display.



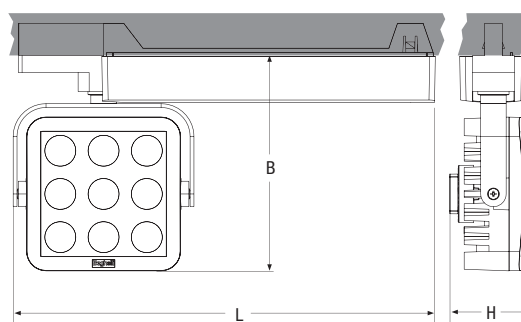
### GENERAL CHARACTERISTICS



- Equivalent Power\*** 35, 70, 150 W
- Power supply SD Version:**  
93–265 V<sub>AC</sub> 50/60 Hz 176–250 V<sub>DC</sub>
- ED Version:** 230 V<sub>AC</sub> ±10 % 50 Hz
- Standard** EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), EN 62471 (photobiological hazard)
- Protection grade** IP40
- Working temp.** -20 ÷ +40 °C
- Mounting** Mono and three phase electrified track
- Housing** Die-cast aluminium, white RAL 9010
- Optic** Zoom LED System (PMMA lenses)
- Driver SD Version:**  
Electronic SD (cos φ ≥ 0.96)  
Electronic with intelligent dimming
- ED version:**  
Electronic ED (cos φ ≥ 0.95)
- MTBF Control gear\*\*** 80 000 h
- Luminous flux maintenance\*\***  
>70 000 h (1× 70, 1× 150) (L80B20)  
>80 000 h (1× 35) (L80B20)
- Colour deviation** 3 SDCM

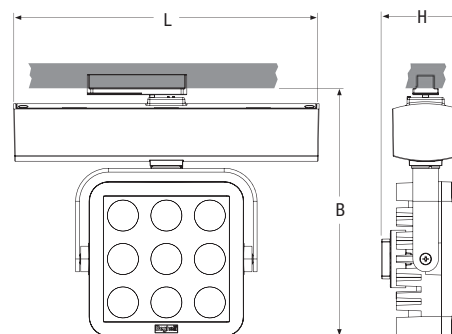
\* Equivalent power for comparison with metal halide fixtures

\*\* At environmental reference temperature of 25 °C



▲ THREE-PHASE VERSION

▼ SINGLE-PHASE VERSION



Version	• Dimensions (mm) •			Weight max kg
	L	B	H	
Single-phase version	330	170	53	1.4
Three-phase version	239	194	61	1.4

## Building automation to be ordered separately

Order code	Description
20102	BUILDING AUTOMATION CENTRAL UNIT
20124	BUILDING AUTOMATION CENTRAL UNIT WIFI
20104	2 INPUT INTERFACE – RADIO TRANSMITTER
15022	BUILDING AUTOMATION RADIO MODULE

### Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the Zoom LED:

- Dimming**  **50 %**
- Device duration** **+40 %**
- Luminous efficiency** **+15 %**

## Zoom LED electrified track

Eco Driver

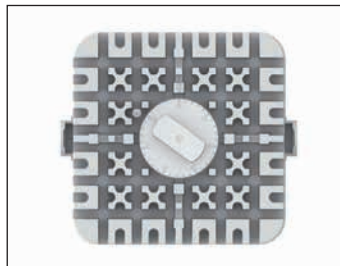
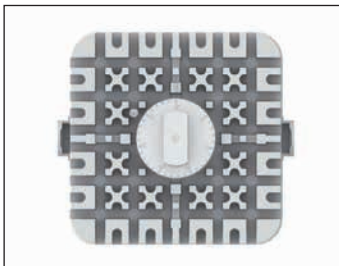
Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption max W	N°LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	lm/W	Energy Class	Packaging
<b>THREE-PHASE VERSION</b>												
1× 70	<b>Z170ED</b>	ZOOM LED BTRF 1X70 ED 3K	29	3 000	≥80	33	9	3 200	2 500	76	A++	1/1
1× 150	<b>Z1150ED</b>	ZOOM LED BTRF 1X150 ED 3K	47	3 000	≥80	52	9	5 000	4 000	77	A++	1/1
<b>SINGLE-PHASE VERSION</b>												
1× 70	<b>Z170MFED</b>	ZOOM LED BMF 1X70 ED 3K	29	3 000	≥80	33	9	3 200	2 500	76	A++	1/1
1× 150	<b>Z1150MFED</b>	ZOOM LED BMF 1X150 ED 3K	47	3 000	≥80	52	9	5 000	4 000	77	A++	1/1

OPTIONAL MODULES TO EXTEND BEGHELLI SD TO RADIO CONTROL OR DALI / 1-10V SYSTEMS AND EMERGENCY

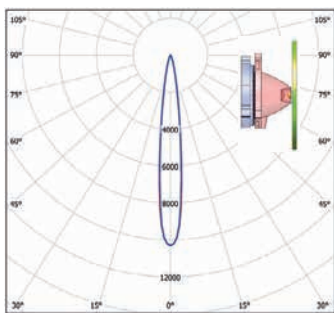


**MINIMUM RANGE OF THE FOCAL LENGTH FOR 10° CONE OF LIGHT**

**MAXIMUM RANGE OF THE FOCAL LENGTH FOR 40° CONE OF LIGHT**



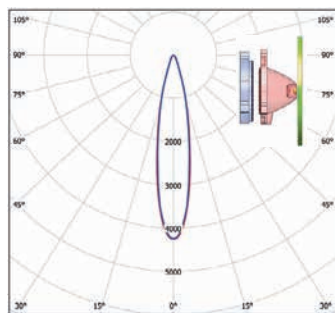
DECORATIVE



I max 35w\* = 28 800 Cd / I max 70w\* = 47 400 Cd

**Beam width 10°**

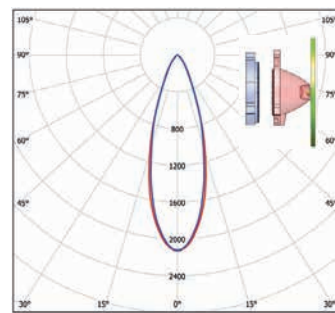
Distance	Diameter	Luminosity
0.5 m	Ø 0.11 m	119 379 lx
1.0 m	Ø 0.22 m	29 845 lx
1.5 m	Ø 0.33 m	13 264 lx
2.0 m	Ø 0.44 m	7 461 lx
2.5 m	Ø 0.55 m	4 775 lx
3.0 m	Ø 0.66 m	3 316 lx



I max 35w\* = 11 900 Cd / I max 70w\* = 19 550 Cd

**Beam width 20°**

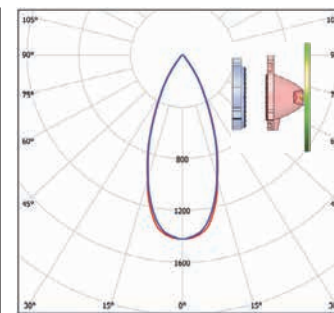
Distance	Diameter	Luminosity
0.5 m	Ø 0.18 m	49 269 lx
1.0 m	Ø 0.36 m	12 317 lx
1.5 m	Ø 0.53 m	5 474 lx
2.0 m	Ø 0.71 m	3 079 lx
2.5 m	Ø 0.89 m	1 971 lx
3.0 m	Ø 1.07 m	1 369 lx



I max 35w\* = 5 950 Cd / I max 70w\* = 9 800 Cd

**Beam width 30°**

Distance	Diameter	Luminosity
0.5 m	Ø 0.29 m	24 656 lx
1.0 m	Ø 0.58 m	6 164 lx
1.5 m	Ø 0.87 m	2 740 lx
2.0 m	Ø 1.15 m	1 541 lx
2.5 m	Ø 1.44 m	986 lx
3.0 m	Ø 1.73 m	685 lx



I max 35w\* = 4 000 Cd / I max 70w\* = 6 550 Cd

**Beam width 40°**

Distance	Diameter	Luminosity
0.5 m	Ø 0.39 m	16 512 lx
1.0 m	Ø 0.78 m	4 128 lx
1.5 m	Ø 1.16 m	1 835 lx
2.0 m	Ø 1.55 m	1 032 lx
2.5 m	Ø 1.94 m	660 lx
3.0 m	Ø 2.33 m	459 lx

**SPECIAL VARIANTS: COLOUR TEMPERATURE ON REQUEST, COLOUR RENDERING ≥90**  
Contact the Beghelli sales network

**Zoom LED electrified track**



Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption max W	N°LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	lm/W	Energy Class	Packaging
<b>THREE-PHASE VERSION</b>												
1x 35	<b>Z135SD</b>	ZOOM LED BTRF 1X35 SD 3K	13	3 000	≥80	17	9	1 750	1 400	84	A++	1/1
1x 70	<b>Z170SD</b>	ZOOM LED BTRF 1X70 SD 3K	29	3 000	≥80	33(30***)	9	3 200	2 500	76	A++	1/1
1x 150	<b>Z1150SD</b>	ZOOM LED BTRF 1X150 SD 3K	47	3 000	≥80	52(45***)	9	5 000	4 000	77	A++	1/1
<b>SINGLE-PHASE VERSION</b>												
1x 35	<b>Z135MFSD</b>	ZOOM LED BMF 1X35 SD 3K	13	3 000	≥80	17	9	1 750	1 400	84	A++	1/1
1x 70	<b>Z170MFSD</b>	ZOOM LED BMF 1X70 SD 3K	29	3 000	≥80	33(30***)	9	3 200	2 500	76	A++	1/1
1x 150	<b>Z1150MFSD</b>	ZOOM LED BMF 1X150 SD 3K	47	3 000	≥80	52(45***)	9	5 000	4 000	77	A++	1/1

\*\*\* The power consumption has an auto derating to the power indicated in parenthesis if the product is powered by voltage less than 110 V<sub>AC</sub>.