

BETELGEUSE Infrared LED Projector 45W

odak® R&D
CENTER
smart city technologies



General Application Areas



Imaging Systems



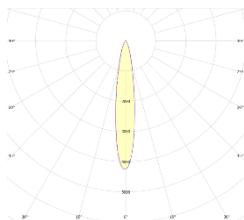
ANPR

General Information

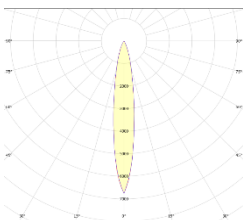
The Infrared LED Floodlight is an LED-based lighting device used to support imaging systems. Its energy-efficient infrared light has a wavelength optimized for night vision, making it ideal for use in challenging conditions.

The luminaire body is designed to withstand harsh environments and is protected by IP66 and IK08 standards. This product is available in a range of beam angles, including 8°, 17°, 20°, 25°, 30°, 45°, 60°, and 120°. It is suitable for a variety of applications, including ANPR and ALPR, and can accommodate light sources ranging from 20mt to 200mt.

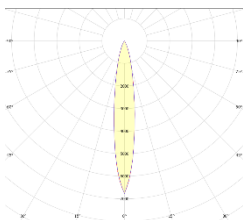
Optical Beam Angles



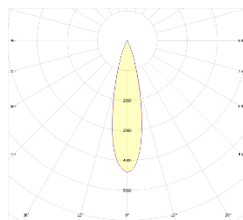
8°



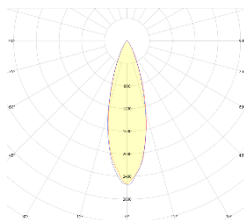
17°



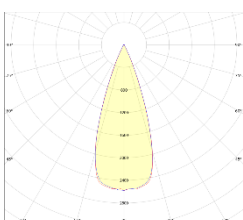
20°



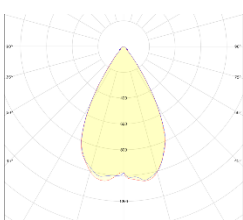
25°



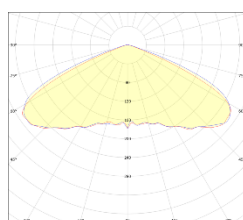
30°



45°



60°



120°

BETELGEUSE Infrared LED Projector 45W

Technical Specifications

Body	: Aluminum Injection
Color Options	: Black RAL 9005, Grey RAL 7016
IP Protection Class	: IP 66
Front Cover	: Tempered Glass
Light source	: LED
Lens	: PMMA
Test Standards	: TS EN 60598-1, TS EN 60598-2-5, TS EN 62031, TS EN 62262, TS IEC TR 62471, TS EN 62722-2-1

Optical and Electrical Properties

Power	45W	Total Harmonic Distortion	<%20
Wavelength	850 nm	Power Factor	>0,95
Infrared Emission	15W	Weight	2,5 kg
Light Angle	8°, 17°, 20, 25°, 30°, 45°, °60°, 120°	Warranty Period	3 Years
Input Voltage	200-240 V AC 50/60 Hz	Dimensions	250x300x51 mm
Throttling Options:	1-10V, TRIAC, DALI		

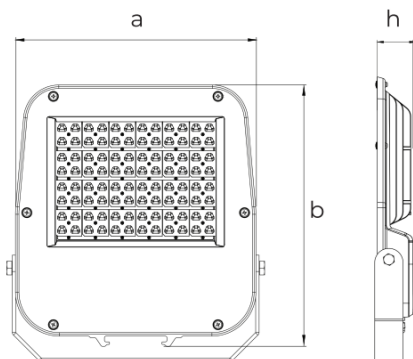
Other Features

Operating Temperature	-25°/+55°C	CE Marking	Yes
Impact Resistance Class	IK 08	RoHS Compliance:	Yes
Lifetime	≥30,000 Hours		

Properties

- Ideal for Traffic Application.
- Extra long life with very low maintenance.
- IP66 Enclosure for Outdoor Mounting.
- Compact with integrated LED Light Source.
- The pulse range can be adjusted from 1.6K~30KHz.
- Standalone or External trigger
- Synchronized support with camcorder (NTSC&PAL)
- Super long range up to 200-400m.

Technical Drawing (Side View) and Wiring Diagram



Product Variations

Product Code	Power	Input Voltage	Infrared Emission	Wavelength	Dimensions	Weight
BTL-045SM-00082-850-7016	45 W	200-240 V AC 50/60 Hz	15W	850 nm	250x300x51 mm	2,5 kg
BTL-085SM-00082-850-7016	85 W	200-240 V AC 50/60 Hz	30W	850 nm	330x349x66 mm	4,5 kg
BTL-125SM-00082-850-7016	125 W	200-240 V AC 50/60 Hz	44W	850 nm	430x442x66 mm	7,5 kg
BTL-150SM-00082-850-7016	150 W	200-240 V AC 50/60 Hz	49W	850 nm	430x442x66 mm	7,5 kg