

ClairSaf LumaLane

Zebra Projector



The LumaLane Zebra Projector is an innovative traffic safety device that uses high-intensity LED lighting and precision optics to project a clear, bright virtual zebra crossing onto road surfaces, significantly enhancing pedestrian visibility and safety where traditional painted markings are insufficient. Engineered for durability with weatherproof IP65-rated housings, these projectors are designed to cut through darkness, rain, and headlight glare, ensuring crosswalks are unmissable in low-light conditions. Ideal for urban streets, school zones, and industrial settings like warehouses with forklift traffic, they offer a versatile, low-maintenance alternative to paint, with features like easy installation, customizable patterns, and long-lasting LED lifespans of up to 60,000 hours.

Key Features

- Traffic System Integration:** Engineered for synchronized operation with traffic control systems and compatible with standard traffic light interfaces, featuring adjustable pattern playback (0-255S).
- Extreme Durability & Weather Resistance:** Boasts an IP65 rating and operates in a wide ambient temperature range (-60°C to +50°C) with comprehensive electrical protections (Level 4 surge/ESD, overcurrent, overvoltage).
- High-Intensity Light Output :** Delivers powerful illumination with a 1000W light source, generating a luminous flux of 26,000-38,000 LM for long-distance projection (1-16 meters).
- Superior Optical Performance:** Features a 6-element Ultra HD optical lens, high CRI (Ra>95), and a specific 448-455nm wavelength, ensuring crisp and accurate color projection.
- Robust & Secure Build:** Constructed with a durable aluminum alloy housing and includes critical safety features such as lightning protection and leakage protection for reliable operation in demanding environments.



ClairSaf-LumaLane-6m
Coverage: 3m*6m



ClairSaf-LumaLane-16m
Coverage: Up to 16m

■ Specification

	Technical Specification
ClairSaf-LumaLane-6m	
Brightness Adjustment	Light control, dimming reverse logic, automatic light decay compensation function.
Power Consumption	200W, Luminous Efficacy Power: 150W
Operating Voltage	AC110-240V
Power Factor	0.9
Projector Luminous Flux	14500 LM
Chip Brand	OSRAM LED Chip Module
Beam Angle	12-28°, Adjustment Angle: Horizontal 360°, Vertical 0-270°
Optical Maintenance Rate	97%
Color Temperature	3200-6500K, Color Rendering Index: Ra>85
Light Source Life	60000H
Focus Mode	Manual Linear Focus
Housing Material	High-quality aviation-grade aluminum-magnesium alloy, anodized and sandblasted
Cooling Method	Copper tube refrigerant heat conduction + Active forced-air cooling for heat dissipation
Optics Material	K9 optical glass with yellow-green anti-reflection coating (15μ)
ClairSaf-LumaLane-16m	
Overall Machine Power	1200W
Voltage	AC100-240V 50/60Hz
LED Driver	Separate Constant Current Power Supply
Light Source	1000W Super Engine Module Light Source
Light Source Life	>20000H
Color Temperature	8000-8500K
Luminous Flux	26000-38000 LM
Wavelength	448-455nm
Colors	Red / Green
Dimming	Linear dimming with a gradual transition effect from dark to bright
Beam Angle	73°
Lens	6-element Ultra HD Optical Lens
Pattern Playback	0-255S adjustable
Control Mode	Synchronized operation with traffic control system, compatible with traffic light systems
Channel Quantity	Standard pedestrian crossing traffic light: 2 channels
Adjustment Angle	180°

	Technical Specification
Brightness Adjustment	1-16 meters Pattern: Customizable imaging pattern
CRI (Color Rendering Index)	95Ra
Lightning Surge / ESD Protection	IEC61000-4 (Level 4)
Safety Features	Lightning protection, overcurrent and overvoltage protection, leakage protection, moisture resistance
Pattern Playback Time	Electronic linear control
Ambient Temperature	-60°C to +50°C
Fixture Housing	Aluminum Alloy, Black (optional)
Installation	Surface-mounted (ceiling), seated
Protection Rating	IP65
Product Dimensions	34×30×36 cm
Product Weight	25KG

■ Ordering Information

Model	Description
ClairSaf-LumaLane-6m	This 200W OSRAM LED projector achieves a 3m by 6m coverage area, delivering 14500 LM luminous flux with a 12-28° beam angle and 3200-6500K adjustable color temperature.
ClairSaf-LumaLane-16m	This high-power 1200W projector is designed for a projection distance of 1 to 16 meters, providing a coverage area of up to 16 meters with a wide 73° beam angle and an ultra-high luminous flux of 38000 LM for pedestrian crossing applications.

