

FUSION 3 LED Street Light Datasheet



FUSION3 LED Street light series is a flexible, easy to maintain LED street light lantern. It is the simplest platform to achieve optimal balance between performance and cost. The luminaire is specially designed for ME3~5 type roads applications.

Benefits

Dual power source

- AC versions provide ultimate flexibility on deployment

IP66 protection and robust design

- Robust mechanical design for extreme outdoor environment Easy to maintain

High efficacy

- Up to 160 lm/W high efficacy

Professional optical design

- Best use of light to the target area while not creating glare to driver and environment

Long lifetime

- 100,000 hours lifetime saving maintenance cost

Environmental friendly

- No hazardous materials

Applications

- Industrial roads
- Parking lots
- Residential roads
- Rural roads



Components list

- EMC leds base 3030 CREE/Osram brand
- Certified led drives brand TRIDONIC/OSRAM
- High grade aluminium alloy housing

CREE ⇄

TRIDONIC

OSRAM

VS LIGHTING SOLUTIONS

SAMSUNG



FUSION 3 LED Street Light

Technical Data

Optical Specifications

		55W	95W	105W	150W	180W
Luminous Flux	3000K	7425lm	12696lm	14175lm	21480lm	24530lm
	4000K, 5700K	8030lm	13740lm	15330lm	22573lm	26496lm
Efficiency	3000K	135-142 lm/W				
	4000K, 5700K	146-162 lm/W				
CCT	3000K, 4000K, 5700K					
CRI (Ra)	>70/80					
SDCM	5					
Beam Angle	Type II/III (long), IESNA Type II & III (medium), IESNA Type I (short), EN13201 M-class					

Electrical and Mechanical Specifications

Input Voltage	220-240V AC 50/60Hz,		220-240V AC 50/60Hz			
Power Consumption	55-59W	92-95W	97-108W	148-150W	177-180W	
Power Factor	>0.95					
Total Harmonic Distortion	<15%					
ESD Protection	Contact 4KV, Air 8KV					
Surge Protection	Line-to-line 5KV, Line-to-ground 10KV optional					
Dimensions	Length	535mm	590mm	620mm	690mm	800mm
	Width	196mm	235mm	235mm	260mm	320mm
	Height	120mm	125mm	125mm	130mm	135mm
Weight	3.2kg	4.6kg	4.8kg	5.8kg	8kg	
Cover Lens	PMMA lens					
Housing	Die-casting aluminium, RAL9006					

System Specifications

Energy & diagnostic data:

acc. DALI parts 251, 252, 253

Power	AC	AC only
Dimmable	ON/OFF, DALI 2, D4I, *time dimming, *1-10V dimming and *PWM dimming (Time dimming, 1-10V dimming and PWM dimming can be customized except 30W)	
Mounting Type	Side-entry mounting	
Operating Temperature	-30°C to +50°C	
Storage Temperature	-30°C to +85°C	
Environment	Outdoor (IP66), IK09	
Lumen Maintenance	L90@25°C - 100,000hrs	
Safety Approval	Electrical Protection Class I (AC), Electrical Protection Class III (DC), CB, CQC, RoHS, EHS	
Warranty Terms	5 Years Warranty	

Items with * are non-standard items and are available on request. Specification is subject to change due to continuous improvement.

Due to the special conditions of manufacturing process of LED, the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from typical data.

Exceeding maximum ratings for operation voltage will cause hazardous overload and will likely destroy the LED module.

Exceeding maximum ratings for operation and storage temperature will reduce expected life time or destroy the LED module.

FUSION 3 LED Street Light

Physical Data

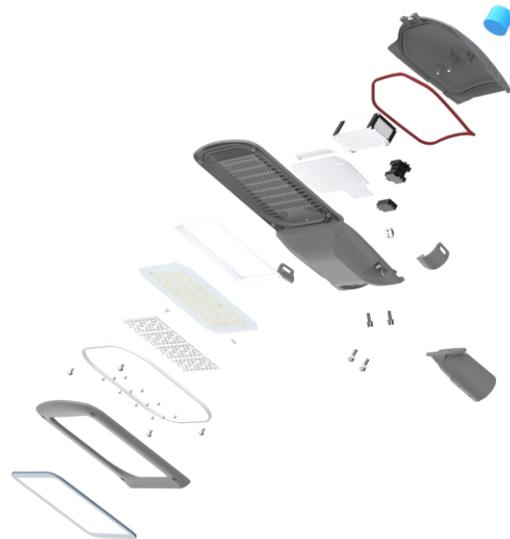
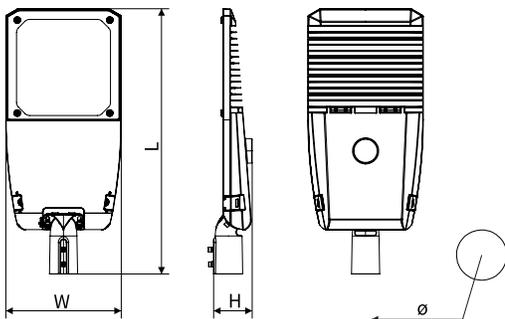
Mechanical Specifications



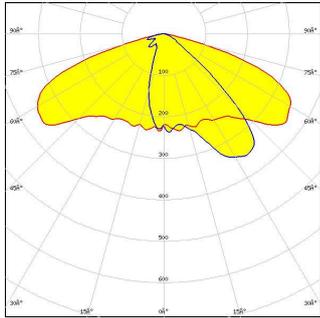
SPECIFICATIONS

Model	Power	Lamp Size	Carton Size	N. W. (KG)	G. W. (KG)	Pole Diameter (mm)	IP/IK Grade
Street FUSION3 LMA14-S	30-60W	607*240*117mm	650*270*150mm	3.5KG	4.2KG	Ø50/Ø60	IP66 / IK09
Street FUSION3 LMA13-M	90W-120W	670*280*117mm	715*315*165mm	4.5KG	5.5KG	Ø60	
Street FUSION3 LMA16-L	150W-200W	733*342*118mm	775*375*140mm	6.5KG	7.1KG	Ø60	

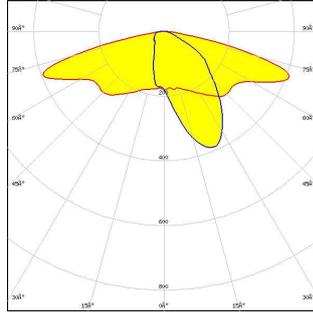
DIAGRAMS



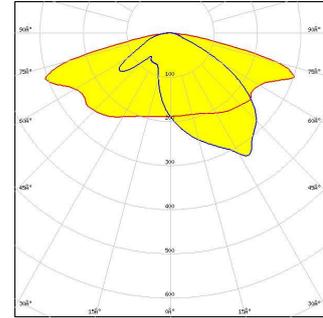
Photometrics Light Distribution Curve



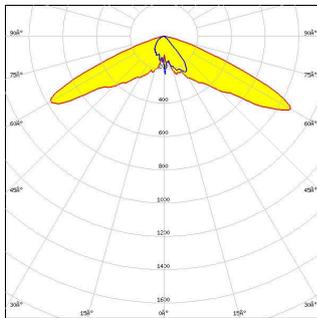
EN13201 M-class



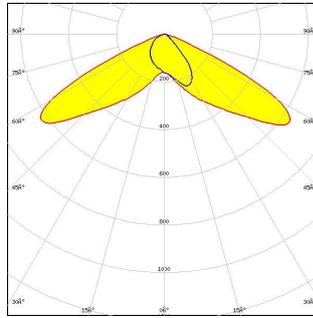
IESNA Type II (medium)



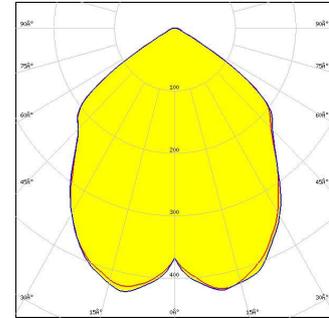
IESNA Type III (medium)



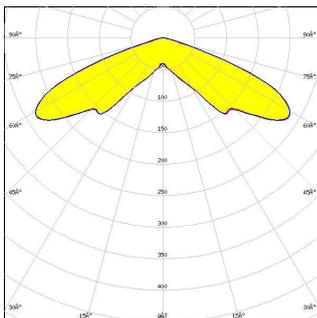
IESNA Type I (short)



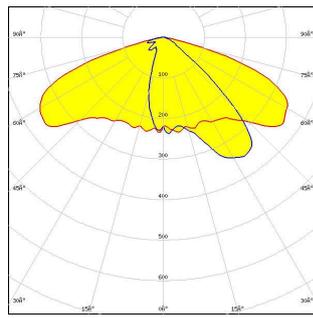
Asymmetric IESNA
Type I (short)



~90° wide beam for
industrial applications.



IESNA Type V (square)



EN13201 M-class requirements

Due to the manufacturing processes of LED, the polar candela distribution and distance luminaries only reflect statistical figures and do not necessarily correspond to the actual parameters of individual product that may differ from the typical values.



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