

LED Flood Light

Landscape Light | Security Lighting





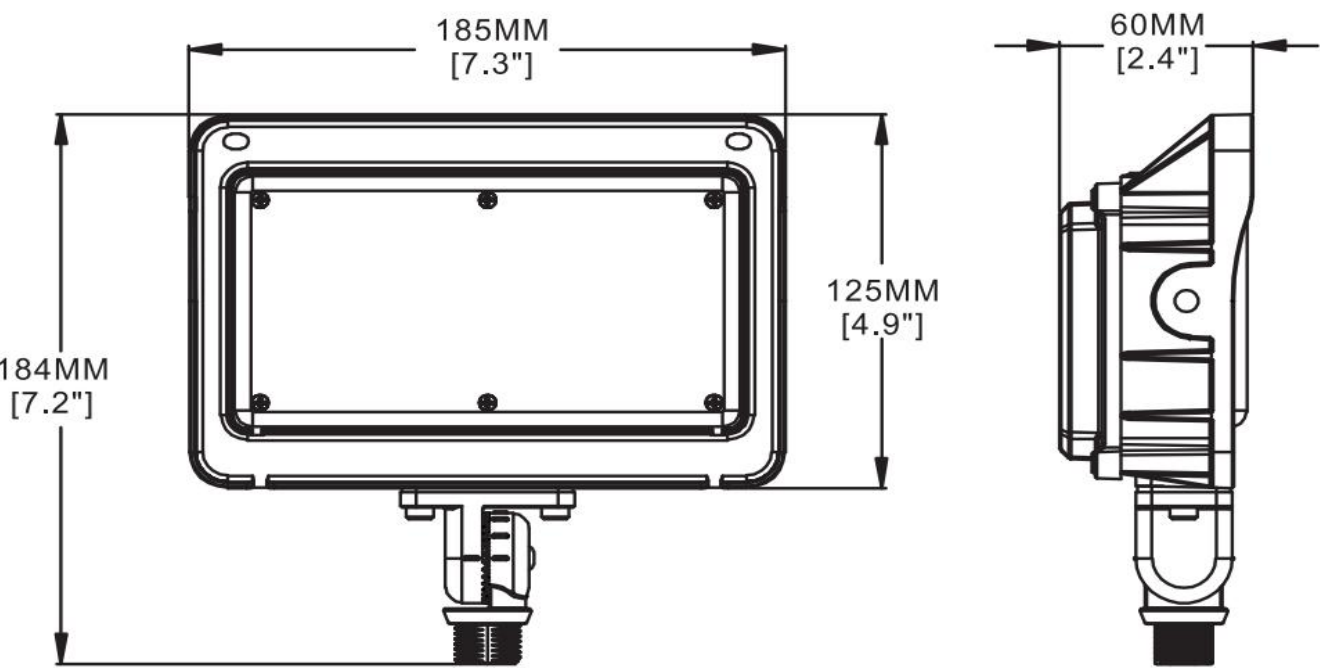
This FL35 Series Mini LED Flood Light is designed for outdoor lighting, it's widely used at garage, warehouse, garden, park, sport court, road, billboard, street. With high quality driver and thermal management, this product lasts for 100000 hours and with a 5-year warranty. Inside with quality Lumileds LED as light sources, they easily outperform conventional fixtures.

- Knuckle and Yoke Brackets Compatible to Ground Spike Wide Application
 - Unique Cooling Thermal Design with Die Casting Aluminum
 - Excellent Optical Design - Dust-to-Dawn Photocell Option
 - High Efficiency Output - Light Efficiency is 130LPW Saving 70% Electricity Cost
 - Waterproof IP65 Rating - Suitable for All Kinds of Weather
 - Quality Lumileds LEDs - Ensure the Best Performance
 - 5 Years Warranty for Whole Fixture and Power Supply
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General Specifications

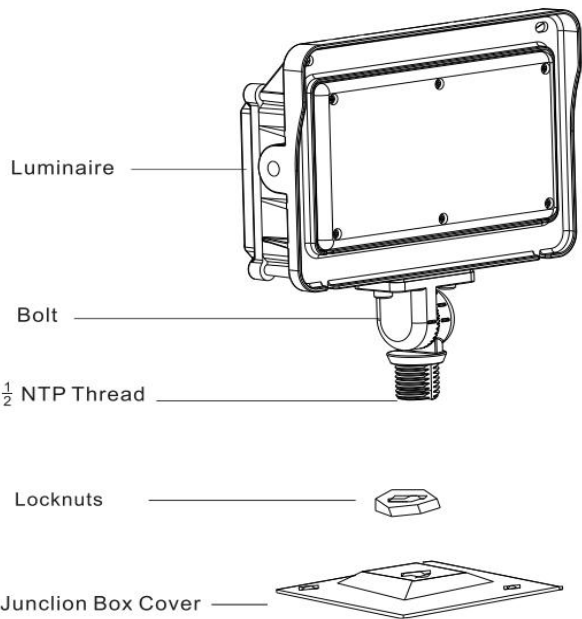
Item No.	ML-FL35-50W
System Power(±5%)	50W
Electrical Data	
Input Voltage	100-277 VAC
LED Driver	Minglight Driver
Power Frequency	50/60Hz
Power Factor	>0.9
THD	<20%
Optical Data	
System Efficacy	130(±5%) Lm/W tested based on 5000K Ra70
Luminous Flux (±5%)	6500LM
LED Chip	Lumileds SMD3030
Beam Angle	120°
Light Color	3000K / 4000K / 5000K / 5700K
CRI	>70 Ra
UGR	<19
Temperature Data	
IP Rate	IP65 wet/outdoor
Operating Temp	-40° ~ 131° F (-40° ~ 55° C)
Ambient Temp	-4° ~ 104° F (-20° ~ 40° C)
Storage Temp	-40° ~ 158° F (-40° ~ 70° C) R.H.≤85%
Lifespan	≥50000Hrs (Ta=30°C@L70) Operating
Fixture Material	Die casting Aluminium body
Safety Certification	ETL, DLC, CE
Warranty	5 Years
Dimension & Packing Data	
Product size (LxWxH)	185mm x 184mm x 60mm (7,3" x 7,2" x 2,4")
Net Weight	12.5 KGS (27.56 LBS)
Gross Weight	14.5 KGS (31.97 LBS)
Carton size (LxWxH)	40*38.5*25cm (15,75*15,16*9,84 inch)
Qty/Carton	12 PCS
Loading Qty/20' GP	500 CTNS / 6000 PCS
Loading Qty/40' GP	1000 CTNS / 12000 PCS
Loading Qty/40' HQ	1300 CTNS / 15600 PCS
L.E.D. vs HPS / MH Equivalence	
LED	50W
HPS / MH	250W

Dimensions



Installation

Knucke Mount



YOKE Mount

Diagram of the YOKE Mount showing dimensions L, H, W, A, B, and D.

Model	15W/26W	50W	80W/100W
L	131mm	190mm	222mm
W	20mm	20mm	20mm
H	80mm	105mm	120mm
D	9mm	9mm	9mm
A	15mm	20mm	20mm
B	80mm	100mm	140mm

Technical Specifications

#Certificate

RoHS approved

This product is tested by independent lab. with all green material.

CE-EMC / CE-LVD approved

This product have passed EMC & LVD testing and is fully CE approved.

IESNA LM-79 and LM-80 Testing

Minglight fixture have been tested by independent lab. in accordance with IESNA LM-79 and LM-80 Testing

Color Stability:

LED color temperature is warrantied to shift no more than 200K in CCT over a 50000 hours.

Color Uniformity:

Minglight's range of CCT follows the guidelines of the American National standard for specification for the chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017

#Installation

IES Classification:

120° beam angles, the lighting output produces a oval shape distribution to cover the area.

Mounting:

This product is direct mounting on wall or ground by Yoke & Knuckle
The application including Warehouse, Gymnasiums, Stadium, Workshop Garage, Industrial facilities.

#LED Characteristics

Lifespan

100000 hours LED lifespan based on IES LM-80 results and TM-21 Calculation.

Color Consistency

7-step MacAdam Ellipse binning to achieve consistent one by one color.

#Smart Engine

Dimming Driver

1-10V Dimming optional

Smart Sensor

Photocell optional

#IP Rating

Ingress Protection rating of IP65
IP65 for dust and water

Greenity:

Mercury or UV free. RoHS compliant components. Package boxes are made with recyclable material.

#Smart solution options

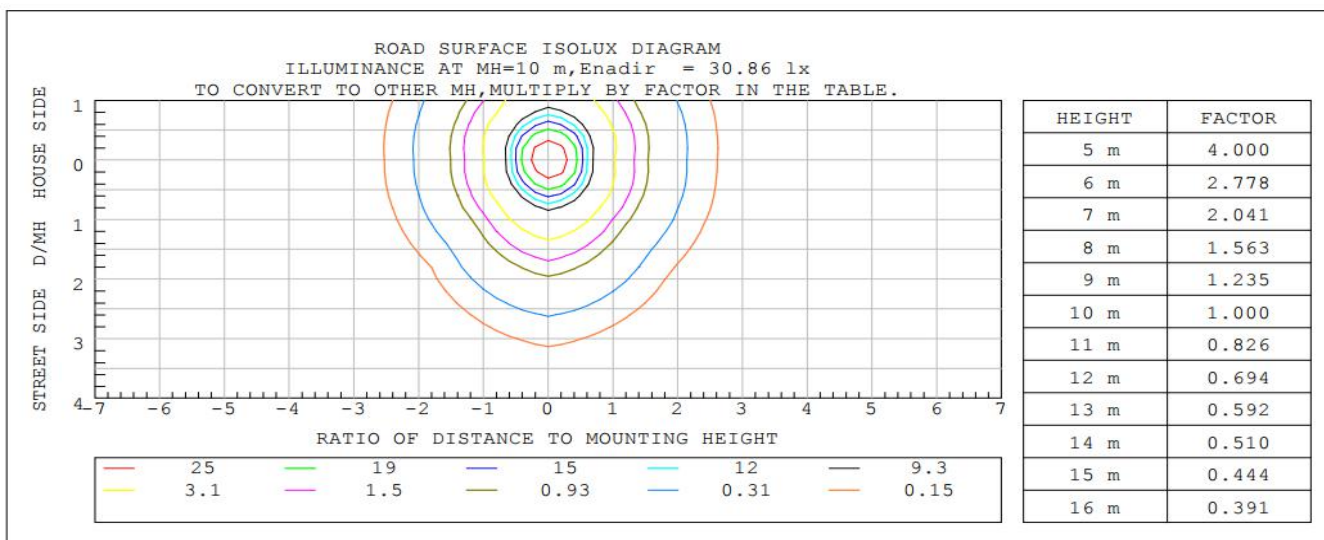
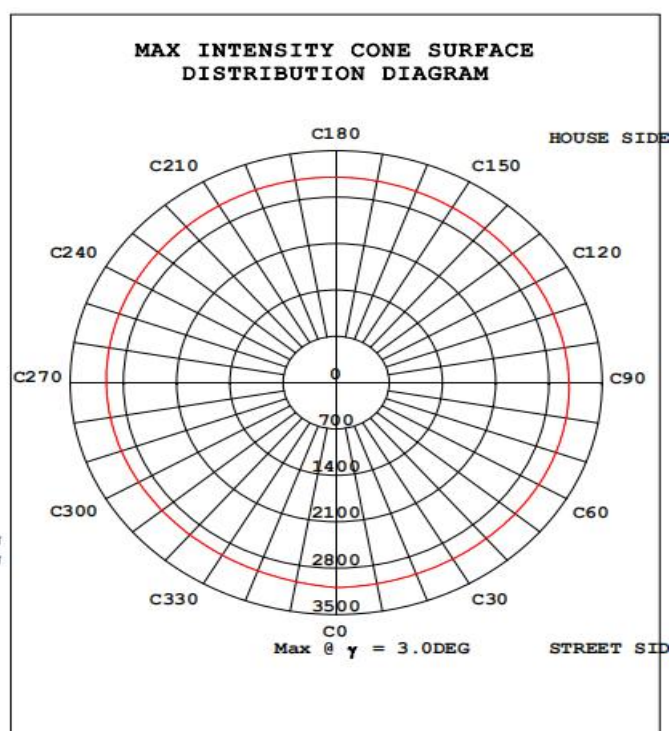
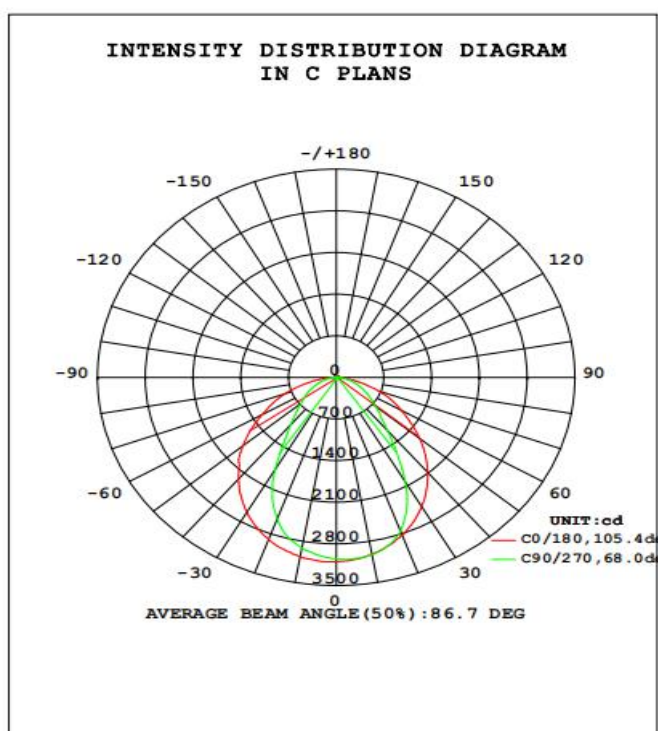
Accessory	Pictures	Function
Photocell		Auto turn on at dusk/night and off at dawn/daytime

#Trouble Shooting

Problem	Possible Cause	Solutions
LEDs stop working	The power line is improperly connected.	Reconnect the power cable.
	The power plug is loose.	Firmly plug the power in.
	The LED driver malfunctions.	Replace with new driver.
	The LED chip is damaged.	Replace with new LEDs.
LEDs flash on and off	The output of the driver is abnormal.	Replace with new driver.
	The LED chip breaks down.	Replace with new LED chip.

Photometrics

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.13 lm/W			
MODEL	FL35-50W	I _{max} (cd)	3103	η street_up(%)	0.5
NOMINAL POWER(W)	50	LOR(%)	100.0	η street_down(%)	57.5
RATED VOLTAGE(V)	277	TOTAL FLUX(lm)	6291	η house_up(%)	0.3
NOMINAL FLUX(lm)	6290.64	MAXIMUM @ (C,γ)	180,3.0	η house_down(%)	41.7
LAMPS INSIDE	1	η up(%)	0.8	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE (V)	220	η down(%)	99.2	SLI	18.938



Flood Light is widely used in house, garages, gardens, parks, sport courts, roads, billboards, streets, urban roads, schools, industrial & residential areas.

Project Cases of MINGLIGHT

