

**200+** Patent Certificates  
**\$1,000,000+** Annual Energy Saving  
**20,000+** Projects Successfully Installed



# INM Series LED High Mast Light

Power: 230W - 720W



Innovative & Tailored  
Lighting Solutions for **Success**  
[www.aokledlight.com](http://www.aokledlight.com)

# Features of **INM** Series



For others & details please request



< INM01



< INM03



● **WARRANTY**

5 Year Limited Warranty,  
10 Year Preferred Warranty.

Please consult with our sales for detailed agreement.

INM features a smart lighting system with an easy-to-install lid-latch driver box. Its rugged, weather-tight design, corrosion-resistant polyester powder coating, and up to 5G vibration ratings (for certain models) ensure durability. The PMMA material uses a matrix full light-cutting design with a concave light retaining wall to remove excess light and enhance light control, meeting users' range requirements. The lamp's streamlined body features fin-type heat dissipation, edge sinking design, and convection vents for optimized air flow and extended fixture life. It has an IP66 protection grade, waterproof structure, IK10 shake-proof rating, and high-resistance silicone waterproof ring for double protection. The super bracket design supports over 10 times the lamp's weight, offering a higher safety factor. Induction mounting holes are included for future functional upgrades.

## Benefits for choosing INM



### • Tool-Less Maintenance

The driver box requires no tools for maintenance and is easily manageable. Hand clamp-proof.



### • Professional Optic Design

Various lenses for professional street lamp glare control and light distribution.



### • Exceptional Impact Resistance

Passed 5G Shock Resistance Test.



### • Environmental Concept

CCT (2700K~3000K) optional, reducing ecological impact, and friendly to insects and animals.



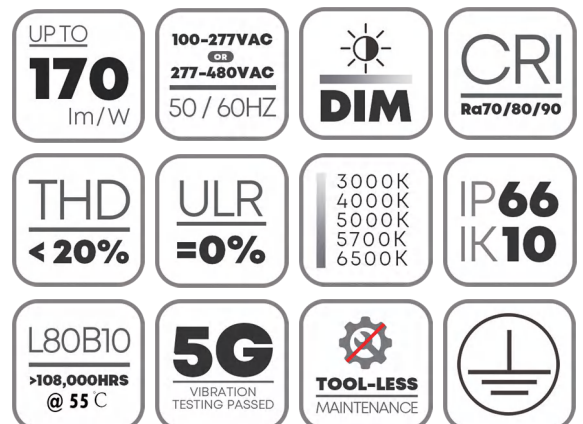
### • Easy Installation

Quick internal wiring connection.



### • Multiple Accessories and Options

Supports accessories and options such as Photocell (Nema), 3pin/7pin bases, ZigBee, LoRa, Zhaga bases, Dali, Casambi, NB-IoT control.

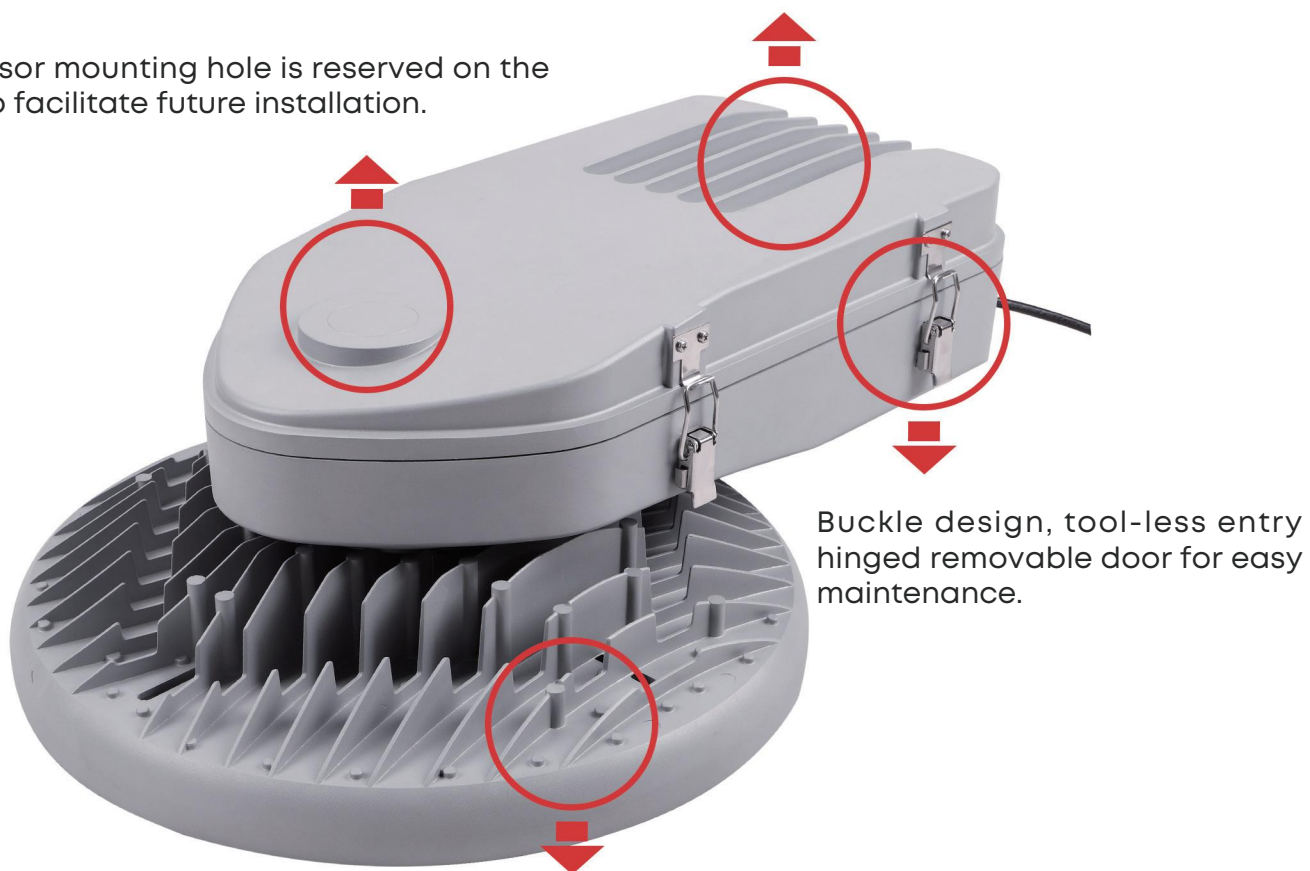


# Ingenious Design

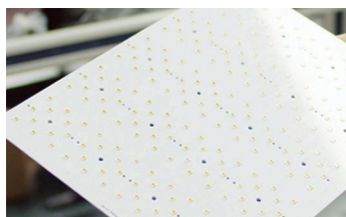
## For the sake of adaptability

A sensor mounting hole is reserved on the top to facilitate future installation.

Driver box heat dissipation, protect the power supply and prolong the lifespan.



Fin-shape heat dissipation, fair-shaped design, efficient thermal management to protect the lifespan of the fixture.



High performance modular LED light engine



Easy wiring & installation



3 or 7-pin receptacle with a variety of controls options



Bolt mounting 3G rating



# Photometric Design

iNM light engine using reflective technology to optimize application efficiency and minimize glare. The efficient design of the LED modules makes each light engine highly customizable, allowing the light distribution to be aimed toward the application.

- LM-79 test and report in accordance with IESNA Standard.
- iNM01: 3000K~6500K CCT; iNM03: 2700K~6500K CCT.
- Minimum CRI of 70, 80 and 90 optional.

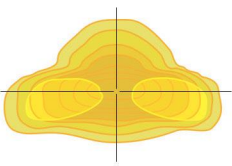
We deliver innovation and customization, further expanding the flexibility of the project. Exceptional uniformity and low glare for maximum comfort.



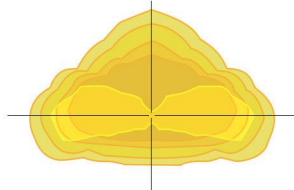
- The photometric engine takes advantage of the latest generation of powerful LEDs and dedicated optics for professional applications.
- Combined with Lumileds/Seoul LEDs that provide an alternative solution for those who are looking for very cost-effective yet efficient lighting while keeping the same luminaire design.

## Distribution

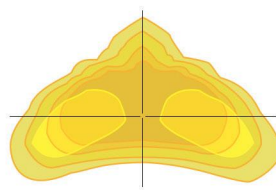
iNM01 (T202)



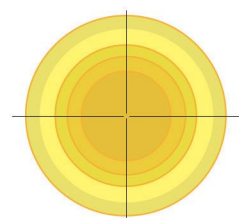
iNM01 (T303)



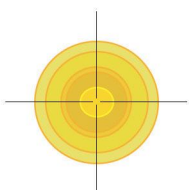
iNM01 (T403)



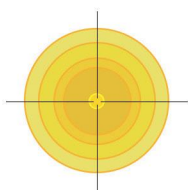
iNM01 (T503)



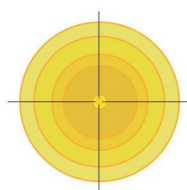
iNM03 (15D)



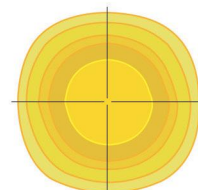
iNM03 (30D)



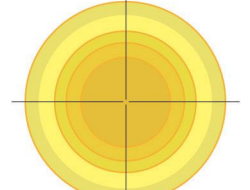
iNM03 (60D)



iNM03 (120D)



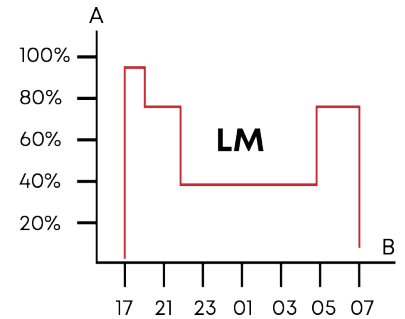
iNM03 (T502)



7

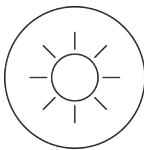
### Custom Dimming Profile

Smart luminaire drivers enable the programming of complex dimming profiles without extra wiring. Customized time intervals and light levels contribute to maximum energy savings, maintaining required lighting levels and uniformity throughout the night.



### Daylight Sensor / Photocell

Photocell or daylight sensors switch the luminaire on as soon natural light falls to a certain level. It can be programmed to switch on during a storm, on a cloudy day (in critical areas) or only at night-fall so as to provide safety and comfort in public spaces.



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### Smart standards. Smarter lighting.

LoRaWAN® Luminaire Controller Zhaga is a wireless device for remote LED luminaire control with a Zhaga-compliant connector and DALI interface. It's compatible with LoRaWAN®, NB-IoT, and LTE-M networks, featuring a modern, compact design suitable for various street lighting modules.

LoRaWAN® Luminaire Controller NEMA is designed for LED luminaires with an ANSI C136.41 NEMA receptacle. It controls the luminaire through DALI or 0-10V analog interfaces and provides a secure power connection with three robust twist lock contacts.



# Application Reference

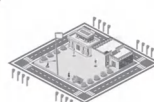
- Road & highway lighting
- Urban road & street lighting
- Residential area lighting
- Parks & perimeter lighting
- Parking lot lighting
- Riverside & jogging track



High Mast  
Lighting



Main road  
& Highway



National  
Parade Square



Port &  
Loading Bay

Parameter Table

Electrical Specifications																		
Model	AOK-230WiNM		AOK-315WiNM		AOK-380WiNM		AOK-460WiNM		AOK-580WiNM		AOK-720WiNM							
Power(W)	230 W		315 W		380 W		460 W		580 W		720 W							
Input Voltage	Normal Voltage=100-277VAC, High Voltage=277-480VAC, please read *Note-1 before choosing.																	
THD	<20%																	
PF	>0.90																	
Control Option	DALI, 1-10V/ PWM / timer dimming, Nema, Zhaga, Presence detection sensor. 3 or 7 pin receptacle reserved.																	
Operating Temperature	-40°C to 55°C (-40 °F to 131 °F)						-40°C to 50°C (-40 °F to 122 °F)											
Driver Brand	Inventronics or others																	
Surge Protection	20KV Standard																	
Photometric Specifications																		
	Y22-T303	140 lm/W		135 lm/W		130 lm/W		140 lm/W		135 lm/W		130 lm/W						
	Y22-T403	*		*		*		*		*		*						
	Y22-T503	*		*		*		*		*		*						
	S5-T202	155 lm/W		150 lm/W		145 lm/W		*		*		*						
	S5-T302	*		*		*		*		*		*						
	S5-T402	*		*		*		*		*		*						
	S5-T502	175 lm/W		170 lm/W		165 lm/W		175 lm/W		170 lm/W		165 lm/W						
	S5-PC-15D	145 lm/W		140 lm/W		135 lm/W		145 lm/W		140 lm/W		135 lm/W						
	S5-PC-30D	170 lm/W		165 lm/W		160 lm/W		170 lm/W		165 lm/W		160 lm/W						
	S5-PC-60D	175 lm/W		170 lm/W		165 lm/W		175 lm/W		170 lm/W		165 lm/W						
	S5-PC-120D	*		*		*		175 lm/W		170 lm/W		165 lm/W						
	Y22-T303	32200 lm		42525 lm		49400 lm		64400 lm		78300 lm		93600 lm						
	Y22-T403	*		*		*		*		*		*						
	Y22-T503	*		*		*		*		*		*						
	S5-T202	35650 lm		47250 lm		55100 lm		*		*		*						
	S5-T302	*		*		*		*		*		*						
	S5-T402	*		*		*		*		*		*						
	S5-T502	40250 lm		53550 lm		62700 lm		80500 lm		98600 lm		118800 lm						
	S5-PC-15D	33350 lm		44100 lm		51300 lm		66700 lm		81200 lm		97200 lm						
	S5-PC-30D	39100 lm		51975 lm		60800 lm		78200 lm		95700 lm		115200 lm						
	S5-PC-60D	40250 lm		53550 lm		62700 lm		80500 lm		98600 lm		118800 lm						
	S5-PC-120D	*		*		*		80500 lm		98600 lm		118800 lm						
ULOR	= 0%, @ Luminaire inclination 0°																	
CCT	iNM01:3000K~6500K; iNM03: 2700K~6500K																	
CRI	70Ra, 80Ra, 90Ra optional																	
Beam Angle	iNM01: T2/T3/T4/T5; iNM03: 15D/30D/60D/120D/T5																	
Mechanical Specifications																		
IP/IK	iNM01: IP66/IK08; iNM03: IP66/IK10																	
Vibration Resistance	3G/5G vibration rated (please request for details), conform to standard IEC 68-2-6.																	
SCx(EPA)	Top: 0.230256㎡(2.48ft²); Front: 0.105389㎡(1.13ft²); Left: 0.0720093㎡(0.78²);																	
Housing/Materials	Heavy-duty die-cast aluminum (EN AC-46100)																	
Surface Treatment	Anti-UV thermosetting polyester / 80 micron epoxy primer + Anti-UV thermosetting polyester (for extremely corrosive environments).																	
Painting	Black, Silver gray,Customized color																	
Cable	Pre-wired with a 30 cm cable (Other lengths on request)																	
Mounting	Silp fitter																	
LED																		
LED Manufacturer	LUMILEDS/Seoul																	
LED Model	Seoul 5050/Seoul Y22																	
	Y22-T303	317 mA		412 mA		436 mA		339 mA		399 mA		465 mA						
	Y22-T403	*		*		*		*		*		*						
	Y22-T503	*		*		*		*		*		*						
	S5-T202	*		*		*		*		*		*						
	S5-T302	*		*		*		*		*		*						
	S5-T402	*		*		*		*		*		*						
	S5-T502	66 mA		90 mA		108 mA		62 mA		78 mA		97 mA						
	S5-PC-15D	55 mA		77 mA		92 mA		67 mA		84 mA		105 mA						
	S5-PC-30D	34 mA		47 mA		56 mA		40 mA		50 mA		63 mA						
	S5-PC-60D	34 mA		47 mA		56 mA		40 mA		50 mA		63 mA						
Lens	Polycarbonate /Tempered glass																	
Others																		
Lifespan	L80B10 > 108000 h, @Tq 55°C																	
Warranty	5 years in standard, 10 years optional																	
Certification	UL/cUL/FCC/CE/ENEC/SAA/GS,For other certificates please request																	
Product Size(mm)	665*468*224mm / 26.2*18.4*8.8 inches			665*468*224mm / 26.2*18.4*8.8 inches			665*468*224mm / 26.2*18.4*8.8 inches			716*570*220mm / 28.2*22.4*8.7 inches			716*570*220mm / 28.2*22.4*8.7 inches					
Net Weight(kg)	iNM01: 19.6kg / 43.21 lbs iNM03: 17.0kg / 37.48 lbs			iNM01: 19.6kg / 43.21 lbs iNM03: 17.0kg / 37.48 lbs			iNM01: 19.6kg / 43.21 lbs iNM03: 17.0kg / 37.48 lbs			iNM01: 20.5kg / 45.19 lbs iNM03: 23kg / 50.71 lbs			iNM01: 20.5kg / 45.19 lbs iNM03: 24kg / 52.91 lbs			iNM01: 20.5kg / 45.19 lbs iNM03: 24kg / 52.91 lbs		
Recommneded Installation Height	20M			25M			30M			35M			40M			45M		
Application field	Suitable for port, railway station, highway express																	
Important note!	The provided information is solely for reference; the official measurement report holds higher authority.																	
*** Stands for the lens module is under development, and the specific parameters will be calculated according to the actual project requirement.																		

\* Note-1: For the power supply in the United States and Canada, in case the input voltage fluctuation ≥240V the High Voltage solution is highly recommended for performance stability. Improper selection will cause damage to the driver or the light.



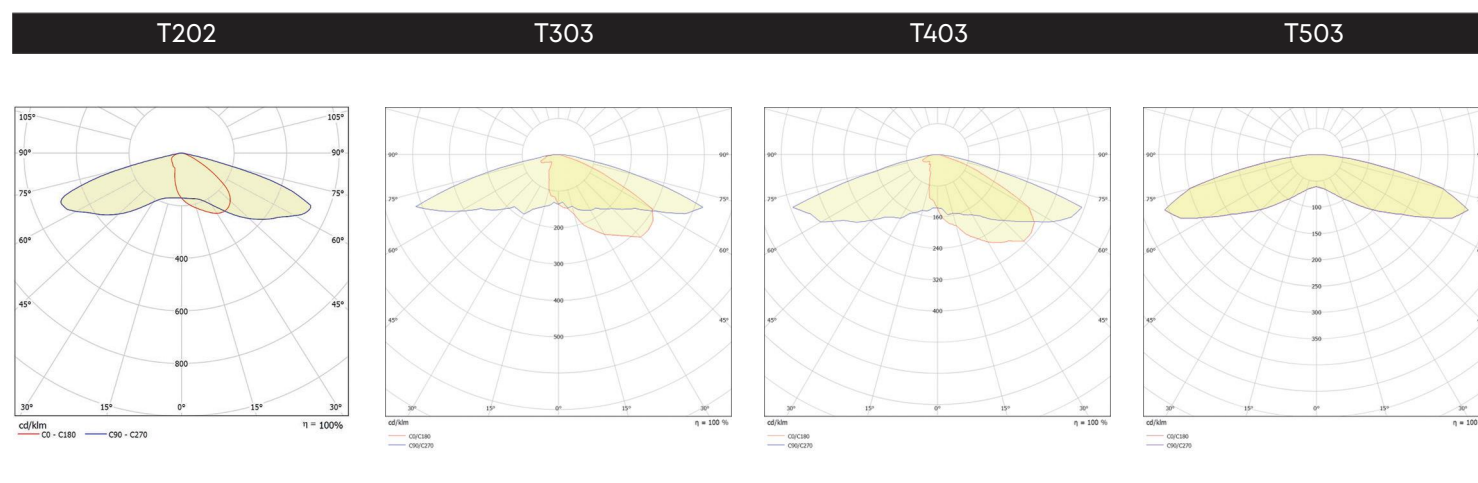
# Ordering Information

AOK	-	-	-	-	-	-	-	-	-
WATTS	TYPE	VOLTAGE	LED CHIPS	TYPE OF SENSOR	*CCT&CRI	*DISTRIBUTION	MOUNT	HOUSING	
230W iNM	01	NV=100-277V	S5=Seoul 5050	00=Without Sensor	2770=2700K 70CRI	15D=15°	A=Slip Fitter	BK=Black	
315W iNM	03	HV=277-480V	Y22=Seoul Y22	DV=Dimmable	3070=3000K 70CRI	30D=30°		SL=Silver Gray	
380W iNM				PH=Photocell	4070=4000K 70CRI	60D=60°			
460W iNM					5070=5000K 70CRI	120D=120°			
580W iNM					5770=5000K 70CRI	T2=T202			
720W iNM					6570=6500K 70CRI	T3=T303			
					2780=2700K 80CRI	T4=T403			
					3080=3000K 80CRI	T5= T503			
					4080=4000K 80CRI				
					5080=5000K 80CRI				
					5780=5700K 80CRI				
					6580=6500K 80CRI				

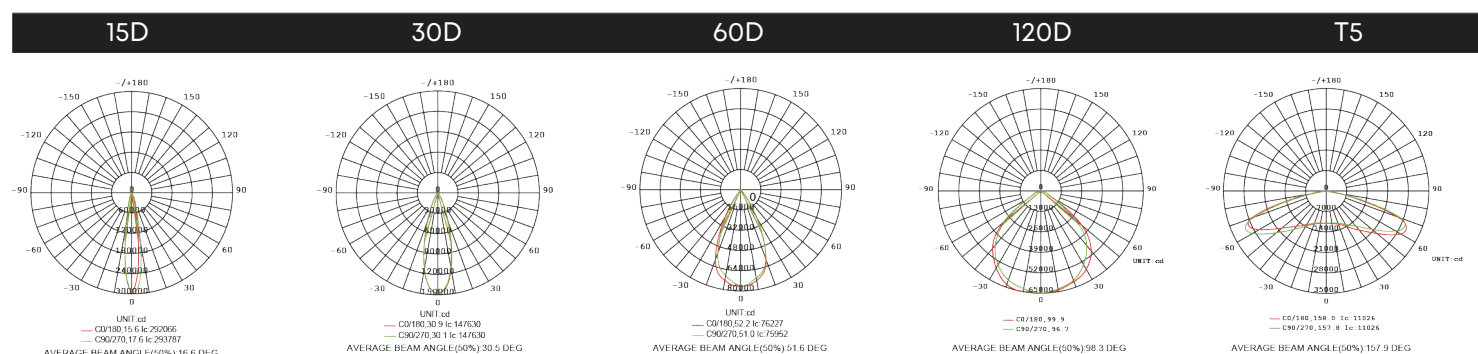
\*CCT&CRI: iNM01: 3000K~6500K CCT; iNM03: 2700K~6500K CCT; \*DISTRIBUTION: iNM01: T2M/T3M/T4M/T5; iNM03: 15D/30D/60D/120D/T5

## Photometry

### INM01 VERSION PHOTOMETRY



### INM03 VERSION PHOTOMETRY



All published Luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited Laboratory.

The figure displays 12 pairs of plots, each representing a different building type (INM01-T202, INM01-T403, INM03-T502, INM03-T503, INM03-T504, INM03-T505, INM03-T506, INM03-T507, INM03-T508, INM03-T509, INM03-T510, INM03-T511). Each pair consists of an Isofootcandle Plot (left) and an IsoCandela Plot (right).

**Isofootcandle Plot:** Shows footcandle levels (Cd) in units of mount height (20ft) across a grid of distance (0 to 6) and height (0 to 6). The plot is color-coded by Cd level, with a legend provided for each. The legend includes Cd values, percentages, and a Total LFF of 0.69. The plots are labeled with 'House Side' and 'Street Side'.

**IsoCandela Plot:** Shows candela levels (Cd) in units of mount height (20ft) across a grid of distance (0 to 6) and height (0 to 6). The plot is color-coded by Cd level, with a legend provided for each. The legend includes Cd values, percentages, and a Total LFF of 0.69. The plots are labeled with 'House Side' and 'Street Side'.

**Legend for all plots:**

- 20 fc: 2.5 fc: 0.2 fc
- 10 fc: 1 fc: 0.1 fc
- 5 fc: 0.5 fc: 50% Max Cd
- Distance in units of mount height (20ft)
- Max Cd

**Legend for all plots (Candela):**

- Cd: 33,193, 90%
- Cd: 27,661, 75%
- Cd: 22,129, 60%
- Cd: 18,441, 50%
- Cd: 14,753, 40%
- Cd: 11,064, 30%
- Cd: 7,376, 20%
- Cd: 3,688, 10%
- Point of Max Cd: 36,900.2

**Legend for all plots (Footcandle):**

- Cd: 46,721, 90%
- Cd: 38,934, 75%
- Cd: 31,147, 60%
- Cd: 25,956, 50%
- Cd: 20,765, 40%
- Cd: 15,574, 30%
- Cd: 10,382, 20%
- Cd: 5,191, 10%
- Point of Max Cd: 52,156.6

**Legend for all plots (Footcandle):**

- Cd: 60,755, 90%
- Cd: 50,629, 75%
- Cd: 40,503, 60%
- Cd: 33,753, 50%
- Cd: 27,002, 40%
- Cd: 20,252, 30%
- Cd: 13,501, 20%
- Cd: 6,751, 10%
- Point of Max Cd: 69,375.7

**Legend for all plots (Footcandle):**

- Cd: 26,892, 90%
- Cd: 22,410, 75%
- Cd: 17,928, 60%
- Cd: 14,940, 50%
- Cd: 11,952, 40%
- Cd: 8,964, 30%
- Cd: 5,976, 20%
- Cd: 2,988, 10%
- Point of Max Cd: 29,879.9

**Legend for all plots (Footcandle):**

- Cd: 148,143, 90%
- Cd: 123,453, 75%
- Cd: 98,762, 60%
- Cd: 82,302, 50%
- Cd: 65,841, 40%
- Cd: 49,381, 30%
- Cd: 32,921, 20%
- Cd: 16,460, 10%
- Point of Max Cd: 164,603.6

**Legend for all plots (Footcandle):**

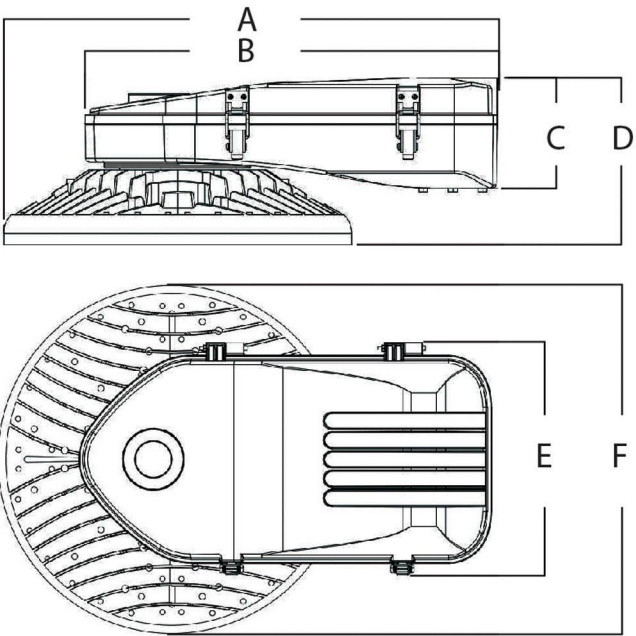
- Cd: 68,653, 90%
- Cd: 57,211, 75%
- Cd: 45,769, 60%
- Cd: 38,141, 50%
- Cd: 30,513, 40%
- Cd: 22,884, 30%
- Cd: 15,256, 20%
- Cd: 7,628, 10%
- Point of Max Cd: 76,330.6

**Legend for all plots (Footcandle):**

- Cd: 26,892, 90%
- Cd: 22,410, 75%
- Cd: 17,928, 60%
- Cd: 14,940, 50%
- Cd: 11,952, 40%
- Cd: 8,964, 30%
- Cd: 5,976, 20%
- Cd: 2,988, 10%
- Point of Max Cd: 29,879.9



# Fixture Dimensions



230W 315W 380W	A		B	C
	66.5cm/26.18'		55.7cm/21.93'	14.9cm/5.87'
	D (INM)	D (INM02)	E	F
	22.4cm/8.8'	21.4cm/8.4'	29.8cm/11.73'	46.8cm/18.43'
460W 580W 720W	A		B	C
	71.6cm/28.19'		55.7cm/21.93'	14.9cm/5.87'
	D (INM)	D (INM02)	E	F
	22.0cm/8.6'	21.1cm/8.3'	29.8cm/11.73'	57.0cm/22.44'

# Mounting & Accessories



- Heavy-duty die-cast aluminum housing, anti-corrosion.
- Lid-latch driver box design & tool-less entry for easy maintenance.
- Side entry and bolt mounting installation, easy & fast.
- 3G/5G vibration rated (please request for details), conform to standard IEC 68-2-6.

## Control Options



\*As the products are upgraded, the accessories may differ from those described in the pictures. Please consult with our sales team for updated details and order separately.





# Innovative & Tailored Lighting Solutions for **Success**



5 Year Limited Warranty,  
10 Year Preferred Warranty.  
Please consult with our sales for detailed agreement.

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#### Manufacturing:

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Huizhou: Building 2, Yinghui Electronic Science and Tech Park, No. 6 Dongsheng North Rd, Chenjiang Street, Zhongkai High-tech Zone, Huizhou, China. 516006.

Fuzhou HQ: Room 301, Yujing Business Center Zone 1, No. 12 Baihuazhou road, Cangshan district, Fuzhou, China, 350007

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