

LED Area Flood Lighting

MAHA-PLUS Series



GigaTera®
beyond light

MAH250 / MAH200 / MAH150

Product Description

- Unrivaled efficacy 150 lm/W
- Asymmetric beam enabling cost efficient 1 for 1 replacement for HID flood light
- Outstanding cooling technology and durability
- Excellent light distribution and minimized glare
- Smart lighting control using wireless or Receptacle

Application

- Sporting Facilities
- Airplane Hangars
- Airport Aprons
- Parking Lots
- Harbour / Yard

Certification

- UL
- FCC
- KC
- CB / CE
- DLC



MAHA-PLUS Series Specifications

Model Name		MAH250	MAH200	MAH150
Power Consumption		250W	200W	150W
CCT		5000K (5700K / 4000K / 3000K available)		
Luminous Flux *		37,500 lm	30,000 lm	21,750 lm
Luminous Efficacy *		150 lm/W		145 lm/W
CRI		80 Ra		
LED Driving Current		96 mA	77 mA	71.4 mA
Light Distribution		Asymmetric Wide		
BUG Rating		B1 – U0 – G3		
Input Voltage		220 ~ 240 Vac / 200 ~ 277 Vac / 347 ~ 480 Vac	100 ~ 240 Vac 120 ~ 277 Vac 347 ~ 480 Vac	100 ~ 240 Vac 100 ~ 277 Vac
Input Current		Max. 1.3A (@200Vac) Max. 1.0A (@347Vac)	Max. 2.5A (@100Vac) Max. 0.75A (@347Vac)	Max. 2.0A (@100Vac)
Power Factor		≥0.9 at Max load		
Frequency		50 / 60 Hz		
Surge Protection		Line – Line 20kV, Line – FG 20kV		
Driver Type		Constant Current (CC)		
Fixture Manufacturer		GigaTera Lighting Inc. / Made in Korea / Made in Vietnam		
Size	mm	347 x 412 x 242		
	inch	13.7 x 16.2 x 9.5		
Weight		7.5 kg / 16.6 lb		
Material	Body	Cast Aluminum		
	Optic	AL Coating Reflector		
	Cover	Tempered Glass 4.0T (Clear)		
Finish		Powder Coating		
IP Rating		IP66		
Effective Projected Area	Front (ft² / m²)	0.491 / 0.046		
	Side (ft² / m²)	0.475 / 0.044		
Operating Temperature		-30°C ~ 50°C		
Option	Control	Wireless (ZigBee) / NEMA-7		
	Mounting	Swivel Bracket, Pole Mount Bracket		
Operation Life Time		> 80,000 hours (L80B10) at Ta 25°C, > 60,000 hours (L80B10) at Ta 40°C		
Warranty		5 Years (12 hours usage per day)		

* Tolerance : ± 10%

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LED Area Flood Lighting

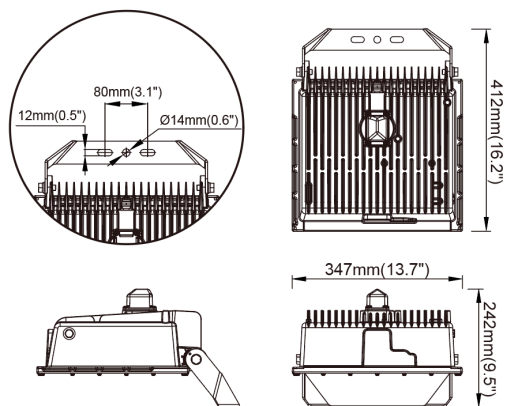
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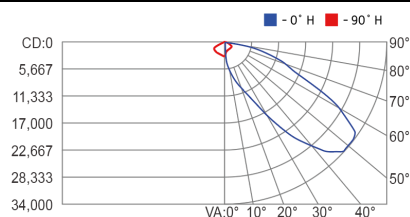
Dimension - MAH250 / MAH200 / MAH150



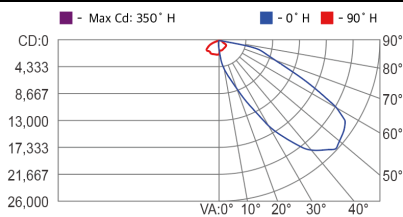
Size	347 x 412 x 242 (mm)
	13.7 x 16.2 x 9.5 (inch)

Photometry Data

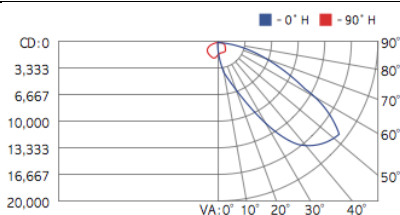
MAH250 / 5000K



MAH200 / 5000K



MAH150 / 5000K



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Control System (Optional)

Wireless Control	ZigBee
Input Voltage	15 Vdc
Max. Power Consumption	0.3W (@15 Vdc)
Standard	2.4 GHz – IEEE 802.15.4 (Compatible)
Network	Mesh
RF Tx Power	Max. +8 dBm (Typ. 5 dBm)
Data Rate	250 kbps
Security	128 bit AES Encryption Algorithms
Antenna	Omni Type, 2 dBi

NEMA-7	
Mechanical	7 Position : 3 Power Contacts + 4 dimming/Signal Contacts
Electrical	Power Contacts. 15A, Max.480Vac/dc
	Dimming Contacts. 0.10A, Max.10Vac/dc
Model Name	TE, 2213362-4(ANSI C136.41-2013 Dimming Receptacle)
	te.com

Mount Bracket Installation Reference (Optional)

MAH250 / MAH200 / MAH150

KETBKTL13G1008		KETBKTL1ZNN001	
	Surface Mount Bracket		KETBKTL13G1008+ KETBKTL1ZNN001
	 Upward 90° / Downward 15°		

Ordering Information (MAHA-PLUS Series)

Ordering Code Usage : MAH250-C50ZGP

MAH	000	-	O	OO	O	O	O
	Power Consumption		Input Voltage	CCT (K)	Control System	Fixture Color	Version
	250 = 250W		C = 347 ~ 480V D = 220 ~ 240V H = 200 ~ 277V	57 = 5700K 50 = 5000K 40 = 4000K 30 = 3000K	Z = Wireless(Zigbee) G = NEMA-7 N = None	G = Gray Powder	P = Plus
	200 = 200W		B = 100 ~ 240V C = 347 ~ 480V E = 120 ~ 277V				
	150 = 150W		A = 100 ~ 277V B = 100 ~ 240V		Z = Wireless(Zigbee) G = NEMA-7		