

# LED Area Flood Lighting

## MAHA-PLUS Series

GigaTera<sup>®</sup>  
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 (ft <sup>2</sup> / m <sup>2</sup> )	0.491 / 0.046	
	Side (ft <sup>2</sup> / m <sup>2</sup> )	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)		

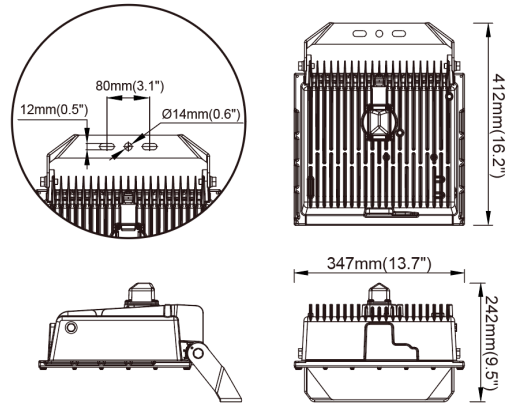
\* Tolerance : ± 10%

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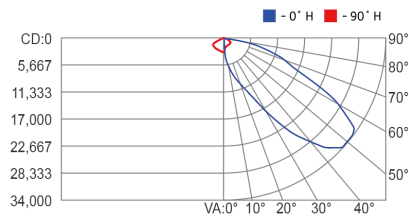
### Dimension - MAH250 / MAH200 / MAH150



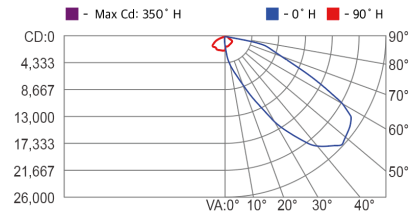
<b>Size</b>	347 x 412 x 242 (mm)
	13.7 x 16.2 x 9.5 (inch)

### Photometry Data

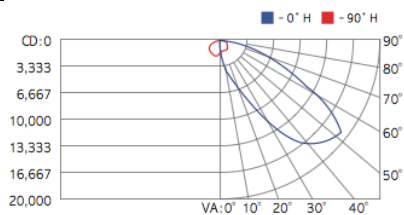
#### MAH250 / 5000K



#### MAH200 / 5000K



#### MAH150 / 5000K



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### Control System (Optional)

<b>Wireless Control</b>	ZigBee
<b>Input Voltage</b>	15 Vdc
<b>Max. Power Consumption</b>	0.3W (@15 Vdc)
<b>Standard</b>	2.4 GHz – IEEE 802.15.4 (Compatible)
<b>Network</b>	Mesh
<b>RF Tx Power</b>	Max. +8 dBm (Typ. 5 dBm)
<b>Data Rate</b>	250 kbps
<b>Security</b>	128 bit AES Encryption Algorithms
<b>Antenna</b>	Omni Type, 2 dBi
<b>NEMA-7</b>	
<b>Mechanical</b>	7 Position : 3 Power Contacts + 4 dimming/Signal Contacts
<b>Electrical</b>	Power Contacts. 15A, Max.480Vac/dc
	Dimming Contacts. 0.10A, Max.10Vac/dc
<b>Model Name</b>	TE, 2213362-4(ANSI C136.41-2013 Dimming Receptacle)
	te.com

### Mount Bracket Installation Reference (Optional)

MAH250 / MAH200 / MAH150

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

### Ordering Information (MAHA-PLUS Series)

### Ordering Code Usage : MAH250-C50ZGP

<b>MAH</b>	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				