

H-SERIES



ZGSMTECH
QUALITY YOU CAN TRUST



LED BAY/FLOOD LIGHTS



Overview

The ZGSM® H-Series LED bay/flood lights are using PHILIPS LUMILEDS® luminous source, providing excellent lumen output, long-lasting stability and splendid sight.

The ZGSM H-Series LED bay/flood lights have a high luminous efficiency and better service life. Provide 7 years warranty on luminaire.

Color Options

► Silver Gray

HIGH-EFFICACY LED LIGHT SOURCE



Philips Lumileds Luxeon TX
Greater than 135lm/W high efficacy, illumination grade LED light source.



Philips Lumileds 3030 2D
Greater than 150lm/W high efficacy, illumination grade LED light source.



Philips Lumileds 5050
Greater than 185lm/W high efficacy, illumination grade LED light source.

HIGH-END LED DRIVER (Two options)

+ NON-DIMMABLE



High-end Mean Well HLG Series LED driver, optimal stability, performance and lifespan.

+ DIMMABLE

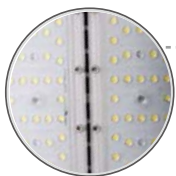
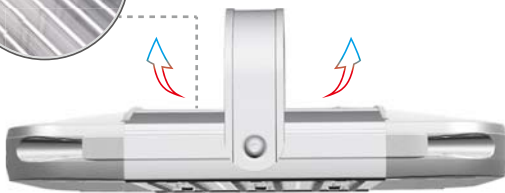


High-end Inventronics programmable LED driver, integrate dimming function and 6KV /10KV surge protection. Provide excellent performance and lifespan.

AIR CONVECTION EFFECT

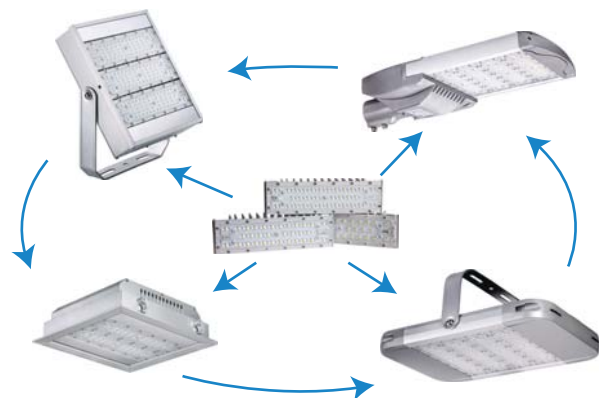


Reasonable heat sink design, not only keep ventilation but also avoid laceration.

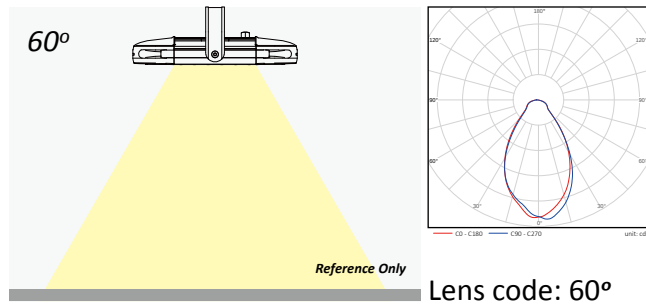


Gaps between each module increase heat dissipation speed and solve the problem of dust deposition.

FLEXIBLE COMBINATIONS OF MODULES



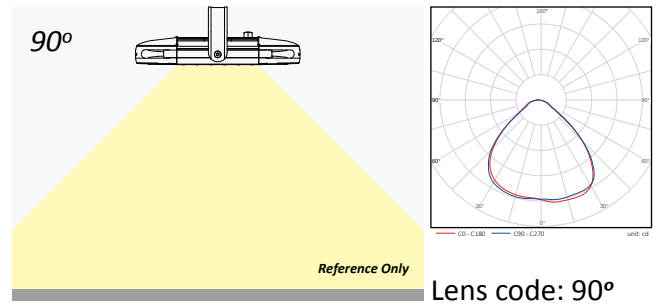
Optics



Applications:

Bay Light: Shelf Aisle | High Hall | High Workshop

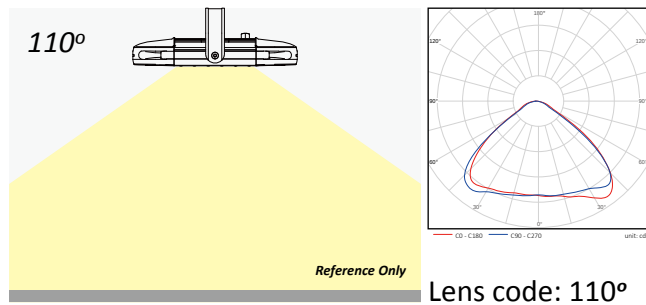
Flood Light: Billboard | Area | Architecture | Landscape Lighting



Applications:

Bay Light: Warehouse | Workshop

Flood Light: Billboard | Area | Architecture | Landscape Lighting

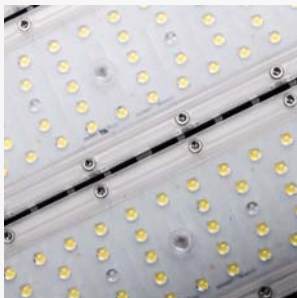


Applications:

Bay Light: Warehouse | Workshop | Gas Station

Flood Light: Billboard | Area | Architecture | Landscape Lighting

Design Features



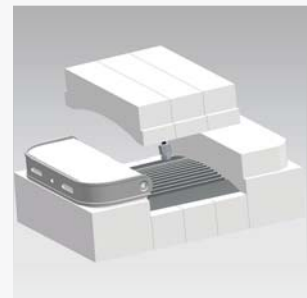
Professional lens design with 60°, 90° and 110° optional.



Use M16 waterproof connector, avoid hard power damage.



full aluminum made, sufficient heat dissipation area also no corrosion worries.



A special tailored packaging designed to guarantee the highest protection of the lamp.



Use waterproof connector for internal wiring, safe, convenient & fast.



Innovative pluggable connector, clean & efficient.



UL standard connection.



Exquisite and enhanced full aluminium bracket.

DETAILED FEATURES

Electrical & Photometric

★ 3030 Version

Number of Modules	Model*1	LED Working Current	Power	Luminaire Efficacy (+/- 5%)	Lumen Output (+/- 5%)	Input Voltage	LED Brand	Driver Brand	Light Distributions	CCT (K)	Lifetime (h)
1	ZGSM-GCD40H4 ZGSM-FGD40H4	95mA	40W	130 lm /w	5200 lm	100-240V /277V AC 50 /60Hz	Philips Lumileds 3030 2D	MeanWell Inventronics	60° 90° 110°	3000*2 4000 5000 5700	>100,000 (L70)
	ZGSM-GCD50H5 ZGSM-FGD50H5	115mA	50W	125 lm /w	6250 lm						>80,000 (L70)
	ZGSM-GCD60H6 ZGSM-FGD60H6	145mA	60W	120 lm /w	7200 lm						>100,000 (L70)
2	ZGSM-GCD80H4 ZGSM-FGD80H4	100mA	80W	130 lm /w	10400 lm						>80,000 (L70)
	ZGSM-GCD100H5 ZGSM-FGD100H5	120mA	100W	125 lm /w	12500 lm						>100,000 (L70)
	ZGSM-GCD120H6 ZGSM-FGD120H6	145mA	120W	120 lm /w	14400 lm						>80,000 (L70)
3	ZGSM-GCD120H4 ZGSM-FGD120H4	100mA	120W	130 lm /w	15600 lm						>100,000 (L70)
	ZGSM-GCD150H5 ZGSM-FGD150H5	120mA	150W	125 lm /w	18750 lm						>80,000 (L70)
	ZGSM-GCD180H6 ZGSM-FGD180H6	145mA	180W	120 lm /w	21600 lm						>100,000 (L70)
4	ZGSM-GCD160H4 ZGSM-FGD160H4	100mA	160W	130 lm /w	20800 lm						>80,000 (L70)
	ZGSM-GCD200H5 ZGSM-FGD200H5	120mA	200W	125 lm /w	25000 lm						>100,000 (L70)
	ZGSM-GCD240H6 ZGSM-FGD240H6	145mA	240W	120 lm /w	28800 lm						>80,000 (L70)
5	ZGSM-GCD200H4 ZGSM-FGD200H4	100mA	200W	130 lm /w	26000 lm						>100,000 (L70)
	ZGSM-GCD240H5 ZGSM-FGD240H5	120mA	240W	125 lm /w	30000 lm						>80,000 (L70)
	ZGSM-GCD300H6 ZGSM-FGD300H6	140mA	300W	120 lm /w	36000 lm						>80,000 (L70)

*1 Model of Bay Light: ZGSM-GCDXXHX | Model of Flood Light: ZGSM-FGDXXHX.
*2 Luminous Efficacy of 3000K is 5% lower than other CCTs.

★ 5050 Version

Number of Modules	Model*1	LED Working Current	Power	Luminaire Efficacy (+/- 5%)	Lumen Output (+/- 5%)	Input Voltage	LED Brand	Driver Brand	Light Distributions	CCT (K)	Lifetime (h)
1	ZGSM-GCD40H4 ZGSM-FGD40H4	48mA	40W	160 lm /w	6400 lm	100-240V /277V AC 50 /60Hz	Philips Lumileds 5050	MeanWell Inventronics	110°	3000*2 4000 5000 5700	>85,000 (L70)
	ZGSM-GCD50H5 ZGSM-FGD50H5	59mA	50W	155 lm /w	7750 lm						>80,000 (L70)
	ZGSM-GCD60H6 ZGSM-FGD60H6	75mA	60W	155 lm /w	9300 lm						>85,000 (L70)
2	ZGSM-GCD80H4 ZGSM-FGD80H4	50mA	80W	165 lm /w	13200 lm						>80,000 (L70)
	ZGSM-GCD100H5 ZGSM-FGD100H5	61mA	100W	160 lm /w	16000 lm						>85,000 (L70)
	ZGSM-GCD120H6 ZGSM-FGD120H6	75mA	120W	155 lm /w	18600 lm						>80,000 (L70)
3	ZGSM-GCD120H4 ZGSM-FGD120H4	50mA	120W	165 lm /w	19800 lm						>85,000 (L70)
	ZGSM-GCD150H5 ZGSM-FGD150H5	58mA	150W	160 lm /w	24000 lm						>80,000 (L70)
	ZGSM-GCD180H6 ZGSM-FGD180H6	75mA	180W	155 lm /w	27900 lm						>85,000 (L70)
4	ZGSM-GCD160H4 ZGSM-FGD160H4	50mA	160W	165 lm /w	26400 lm						>80,000 (L70)
	ZGSM-GCD200H5 ZGSM-FGD200H5	58mA	200W	160 lm /w	32000 lm						>85,000 (L70)
	ZGSM-GCD240H6 ZGSM-FGD240H6	75mA	240W	155 lm /w	37200 lm						>80,000 (L70)
5	ZGSM-GCD200H4 ZGSM-FGD200H4	50mA	200W	165 lm /w	33000 lm						>85,000 (L70)
	ZGSM-GCD240H5 ZGSM-FGD240H5	61mA	240W	160 lm /w	38400 lm						>80,000 (L70)
	ZGSM-GCD300H6 ZGSM-FGD300H6	75mA	300W	155 lm /w	46500 lm						>85,000 (L70)

*1 Model of Bay Light: ZGSM-GCDXXHX | Model of Flood Light: ZGSM-FGDXXHX.
*2 Luminous Efficacy of 3000K is 5% lower than other CCTs.

★ 3535 Version

Number of Modules	Model*1	LED Working Current	Power	Luminaire Efficacy (+/- 5%)	Lumen Output (+/- 5%)	Input Voltage	LED Brand	Driver Brand	Light Distributions	CCT (K)	Lifetime (h)
1	ZGSM-GCD40H ZGSM-FGD40H	860mA	40W	110 lm /w	4400 lm	100-240V /277V AC 50 /60Hz	Philips Lumileds Luxeon TX	MeanWell Inventronics	60° 90° 110°	3000*2 4000 5000 5700	>100,000 (L70)
2	ZGSM-GCD80H ZGSM-FGD80H	900mA	80W	110 lm /w	8800 lm						
3	ZGSM-GCD120H ZGSM-FGD120H	900mA	120W	110 lm /w	13200 lm						
4	ZGSM-GCD160H ZGSM-FGD160H	900mA	160W	110 lm /w	17600 lm						
5	ZGSM-GCD200H ZGSM-FGD200H	900mA	200W	110 lm /w	22000 lm						
6	ZGSM-GCD240H ZGSM-FGD240H	900mA	240W	110 lm /w	26400 lm						

*1 Model of Bay Light: ZGSM-GCDXXHX | Model of Flood Light: ZGSM-FGDXXHX.

*2 Luminous Efficacy of 3000K is 5% lower than other CCTs.

Working Environment & Packing

Number of Modules	Working Environment	Storage Temperature	Rating	CRI	Power Factor	Power Efficiency	Material	Product Dimensions (mm)	Carton Size (mm)	N.W (kg)	G.W (kg)
1	-40 °C ~ +50 °C 10% ~ 90%RH	-40 °C ~ +50 °C	Class I IP66 IK10	>70	>0.95	>90%	Housing: Die-cast aluminum; Heat sink: Stretched Aluminium Alloy; Lens: PC	293*340*156(Bay Light)	345*365*160	3.1	3.9
2								293*340*186(Flood Light)			
3								336*340*156(Bay Light)	415*365*160	4.4	5.2
4								336*340*223(Flood Light)			
5								439*340*156(Bay Light)	485*365*160	5.4	6.3
6								439*340*259(Flood Light)			
								512*340*156(Bay Light)	560*365*160	6.3	7.3
								512*340*296(Flood Light)			
								585*340*156(Bay Light)	635*365*160	7.2	8.3
								585*340*332(Flood Light)			
								658*340*156(Bay Light)	705*365*160	8.1	9.3
								658*340*369(Flood Light)			

Note: Above data of weight are all typical values.

Certification

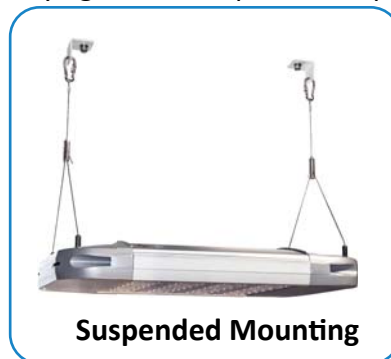
Manufacturer
ISO9001, ISO14001
H Series [ZGSM-GCD40H, ZGSM-GCD80H, ZGSM-GCD120H, ZGSM-GCD160H, ZGSM-GCD200H, ZGSM-GCD240H]
H Series [ZGSM-FGD40H, ZGSM-FGD80H, ZGSM-FGD120H, ZGSM-FGD160H, ZGSM-FGD200H, ZGSM-FGD240H]
CE, ROHS, GS, CB, SAA, UL, cUL, DLC, LM79, LM80
H4/H5 Series [ZGSM-GCD40H4, ZGSM-GCD80H4, ZGSM-GCD120H4, ZGSM-GCD160H4, ZGSM-GCD200H4 ZGSM-GCD50H5, ZGSM-GCD100H5, ZGSM-GCD150H5, ZGSM-GCD200H5, ZGSM-GCD240H5]
H4/H5 Series [ZGSM-FGD40H4, ZGSM-FGD80H4, ZGSM-FGD120H4, ZGSM-FGD160H4, ZGSM-FGD200H4 ZGSM-FGD50H5, ZGSM-FGD100H5, ZGSM-FGD150H5, ZGSM-FGD200H5, ZGSM-FGD240H5]
CE, ROHS, LM80
H6 Series [ZGSM-GCD60H6, ZGSM-GCD120H6, ZGSM-GCD180H6, ZGSM-GCD240H6 ZGSM-FGD60H6, ZGSM-FGD120H6, ZGSM-FGD180H6, ZGSM-FGD240H6]
CE, ROHS, LM80

Variety applications

Bay light with short bracket



Bay light with suspension rope

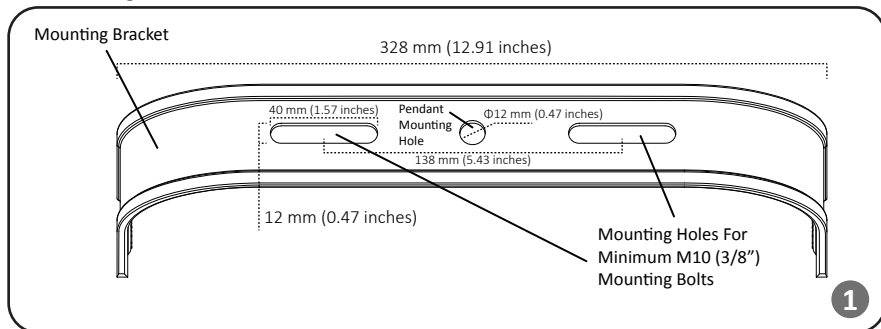


Flood light with long bracket

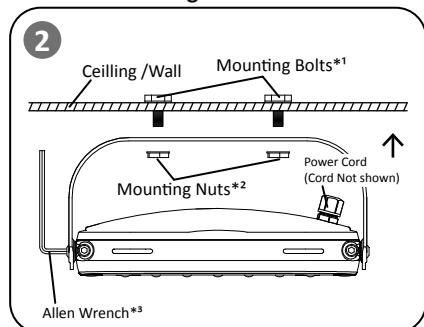


Installation of Bay Light

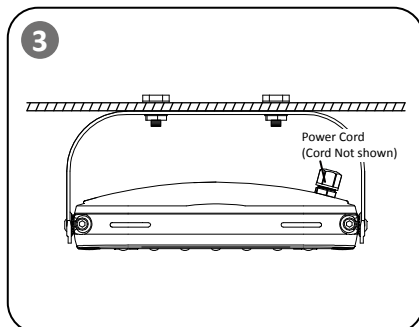
★ Mounting Bracket



★ Direct Mounting



*1 Minimum M10 (3/8") Bolts (not-provided) *2 Mounting Nuts are not provided *3 Allen Wrench: 8mm (5/16")



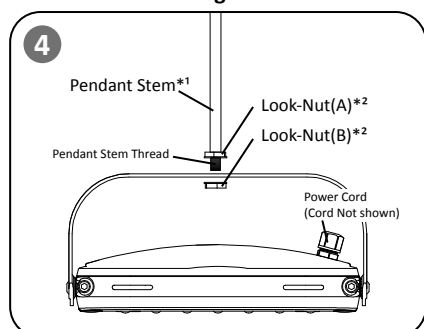
STEP 1: Assemble the mounting bracket to the fixture by provided M10 (3/8") round head screws.

STEP 2: Mount the fixture by two(2) minimum M10 (3/8") bolts. See image 2.

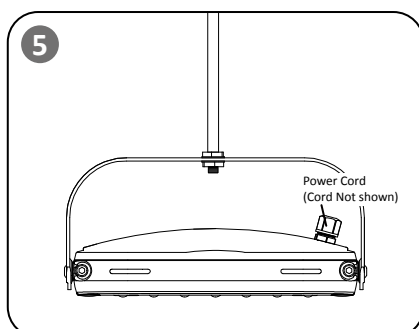
STEP 3: Loosen the mounting bracket screws, adjust the fixture to desired position, re-secure the screws.

STEP 4: Connect the **Power Cord** to the supply wiring per "Electrical Connections" section for completing electrical connections.

★ Pendant Mounting



*1 Pendant Stem can not be the soft material (not-provided) *2 Look Nuts are not provided



STEP 1: Assemble the mounting bracket to the fixture by provided M10 (3/8") round head screws.

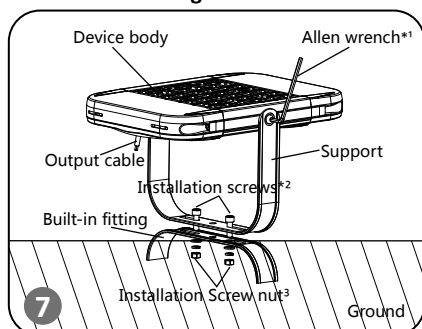
STEP 2: Attach Lock-Nut(A) to the bottom of the Pendant Stem. Attach Lock-Nut(B) by holding the interjacent Fixture Bracket and tightening Lock-Nut(B) until secure. See image 4.

STEP 3: Loosen the mounting bracket screws, adjust the fixture to desire position, re-secure the screws.

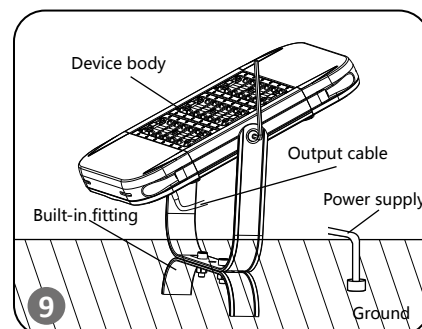
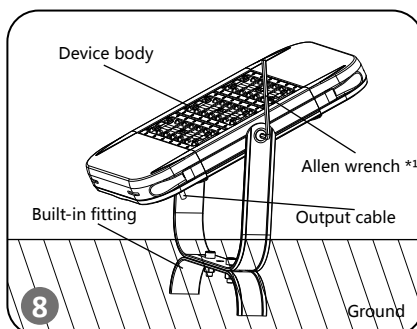
STEP 4: Connect the **Power Cord** to the supply wiring per "Electrical Connections" section for completing electrical connections.

Installation of Flood Light

★ Direct Mounting



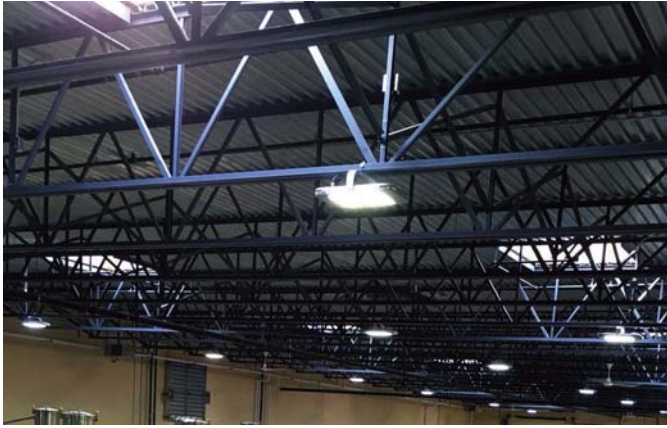
*1 Allen wrench: 6mm *2 Minimum M10 screws (Not provided) *3 Screw nuts (Not provided)



STEP 1: Use an Allen wrench to fix the body and the support (is not necessary to tighten the screws too hard). Align support and built-in fitting, tighten the screws as image 7.

STEP 2: Settle in the adequate angle position and use Allen screw to fix it as image 8.

STEP 3: Connect wire as image 9.



- for Low Bay Applications(Series-H), Canada



- for Low Bay Applications(Series-H), Spain



- for Low Bay Applications(Series-H), Italy



- for flood light Applications(Series-HB), Lithuania



- for flood light Applications(Series-HB), Czech Republic



- for flood light Applications(Series-HB), Dubai