

HPWINNER

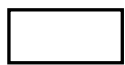
GS1A Series LED Gas Station Light (Ver2.3)

Applications

- Gas station lighting
- Factory & Warehouse lighting
- Showroom & Convention center lighting



Standard Colors




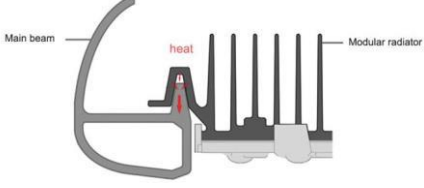

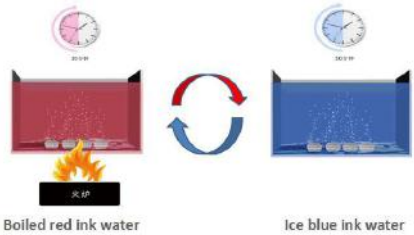


White

Features

- Unique patented IP68 (highest protection level) LED light engines;
- Ergonomic and dedicated lighting distributions available for gas station lighting;
- Whole structure heating dissipation design with best thermal conduction, radiation and convection;
- Flexible to reach desired power selections by choosing appropriate light engines;
- Tool-free onsite replacements of light engines greatly reduce maintenance cost;
- Unmatched lighting performance, driver stability and desirable lifespan;
- Customizable housing dimensions.



HPWINNER's Technical Advantages

		
<p>Air Convection Effect</p>	<p>Whole-structure Heat Dissipation</p>	<p>Tool-less Maintenance</p>
 <p>Boiled red ink water</p> <p>Ice blue ink water</p>	 <p>Extreme efficacy, best performance and compatibility</p> <p>Hot color targeted 6V QFN package delivering high flux</p> <p>The high lumen, high efficacy, multi-die single emitter committed to lowering lighting system cost</p>	
<p>Double-coupling IP68 Protection</p>	<p>High-efficacy LED Light Source</p>	<p>Flexible Combinations of Modules</p>

Electrical & Photometric

✧ Average efficacy option

Model	Input Voltage (V) Frequency Range(Hz)	Drive Current (mA)	Power (w)	M1/M2		M8		Power Factor	Power Efficiency	LED Brand	CCT (k)	CRI									
				Efficacy (lm/w)	Lumens (lm)	Efficacy (lm/w)	Lumens (lm)														
GS1A-1	AC100-240 50/60	700	40	105±5	4200±200	125±5	5000±200	0.95	88%	Lumileds	3000 4000 5000 5700	≥70									
		860	50	100±5	5000±250	120±5	6000±250														
		1050	60	95±5	5700±300	112±5	6720±300														
GS1A-2	AC100-240 50/60	700	80	110±5	8800±400	130±5	10400±400	0.95	91%				Lumileds	3000 4000 5000 5700	≥70						
		860	100	105±5	10500±500	125±5	12500±500														
		1050	120	100±5	12000±600	117±5	14040±600														
GS1A-3	AC100-240 50/60	700	120	110±5	13200±600	130±5	15600±600	0.95	91%							Lumileds	3000 4000 5000 5700	≥70			
		860	150	105±5	15750±750	125±5	18750±750														
GS1A-4	AC100-240 50/60	700	160	110±5	17600±800	130±5	20800±800	0.95	91%										Lumileds	3000 4000 5000 5700	≥70
		860	200	105±5	21000±1000	125±5	25000±1000														

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

✧ High efficacy option

Model	Input Voltage (V) Frequency Range (Hz)	Drive Current (mA)	Power (w)	M16		Power Factor	Power Efficiency	LED Brand	CCT (k)	CRI
				Efficacy (lm/w)	Lumens (lm)					
GS1A-1	AC100-240 50/60	600(9P2S)	30	150±8	4500±240	0.95	88%	Lumileds	3000 4000 5000 5700	≥70
		600(14P2S)	30	158±8	4740±240					
		800(9P2S)	40	145±8	5800±320					
		800(14P2S)	40	153±8	6120±320					
		1000(9P2S)	50	138±8	6900±400					
		1000(14P2S)	50	147±8	7350±400					
		1200(9P2S)	60	130±8	7800±480					
		1200(14P2S)	60	140±8	8400±480					

Electrical & Photometric

✧ High efficacy option

Model	Input Voltage (V) Frequency Range(Hz)	Drive Current (mA)	Power (w)	M16		Power Factor	Power Efficiency	LED Brand	CCT (k)	CRI
				Efficacy (lm/w)	Lumens (lm)					
GS1A-2	AC100-240 50/60	800(9P2S)	80	150±8	12000±640	0.95	91%	Lumileds	3000	≥70
		800(14P2S)	80	158±8	12640±640					
		1000(9P2S)	100	143±8	14300±800					
		1000(14P2S)	100	152±8	15200±800					
		1200(9P2S)	120	135±8	16200±960					
		1200(14P2S)	120	145±8	17400±960					
GS1A-3	AC100-240 50/60	800(9P2S)	120	150±8	18000±960	0.95	91%	Lumileds	4000	≥70
		800(14P2S)	120	158±8	18960±960					
		1000(9P2S)	150	143±8	21450±1200					
		1000(14P2S)	150	152±8	22800±1200					
GS1A-4	AC100-240 50/60	800(9P2S)	160	150±8	24000±1280	0.95	91%	Lumileds	5000	≥70
		800(14P2S)	160	158±8	25280±1280					
		1000(9P2S)	200	143±8	28600±1600					
		1000(14P2S)	200	152±8	30400±1600					

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

Working environment & Packing

Model	Working Environment	Storage Temperature	IP Rating	Surge Protection	LED Life Span (h)	Housing Material	Product Dimensions (mm)	Carton Size (mm)	N.W (kg)	G.W (kg)
GS1A-1	-40℃ ~+50℃, 10%~90%RH.	-40℃~+50℃	Whole Fixture IP67	≥10KV	>50,000	Metal	650*650*110	725*725*170	11.9	14.2
GS1A-2							650*650*110	725*725*170	12.5	14.8
GS1A-3							650*650*110	725*725*170	13.2	15.5
GS1A-4							650*650*153	725*725*215	13.8	16.1

Note: Above data of weight are calculated based on MOSO brand driver, 50W/each module.

Warranty

5-year limited warranty is standard on luminaire and components.

Light Distributions

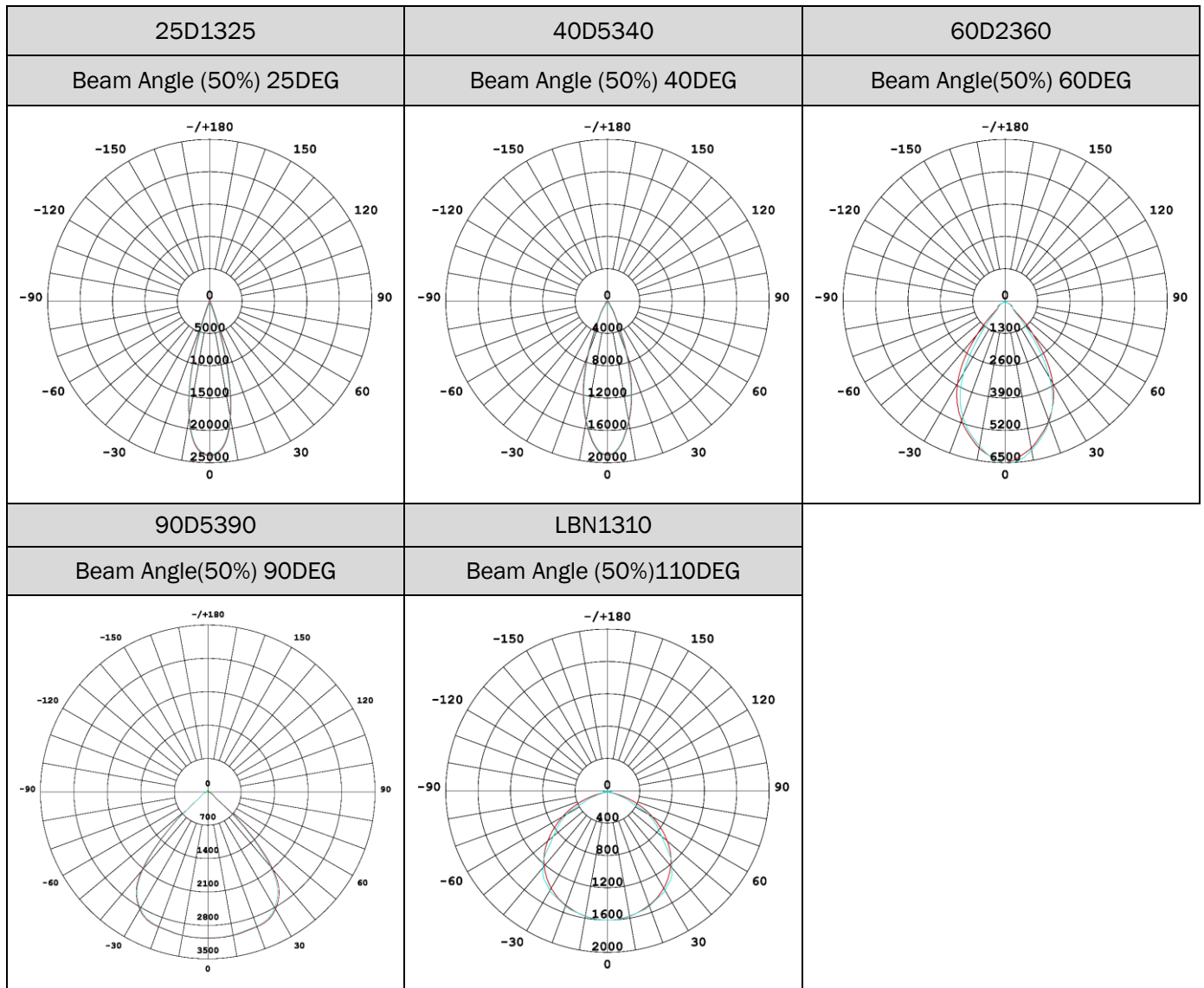
➤ M1A/M2 LED module



25D3725	40D3540	60D3560
Beam Angle (50%) 25DEG	Beam Angle (50%) 40DEG	Beam Angle (50%) 60DEG
90D3590	00D1010	T5S3040
Beam Angle (50%) 90DEG	Beam Angle (50%) 110DEG	IESNA Type V Short
11D3030		
Beam Angle(50%)110x40DEG		

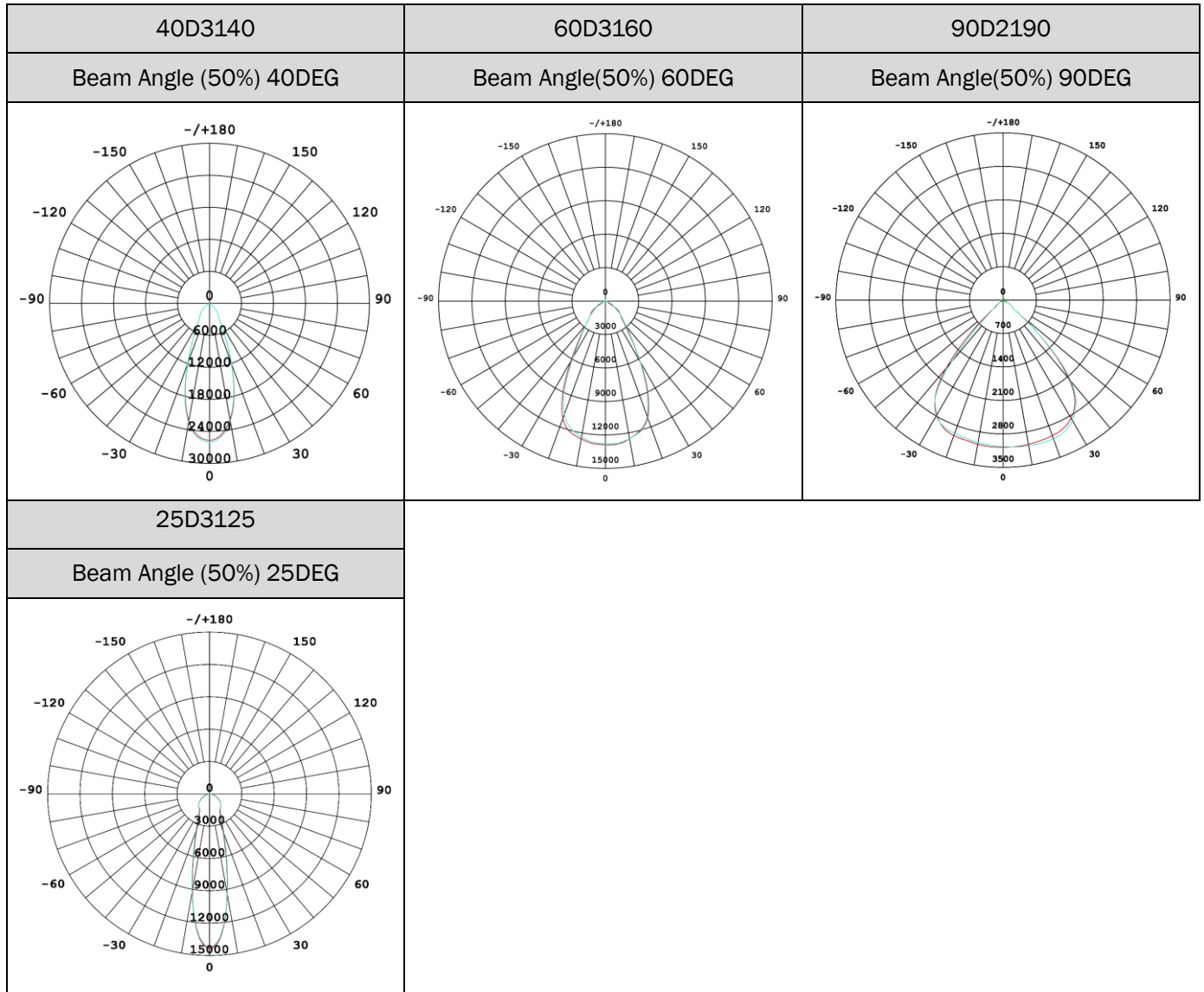
Light Distributions

➤ M8B LED module



Light Distributions

➤ M16B LED module



Design Features

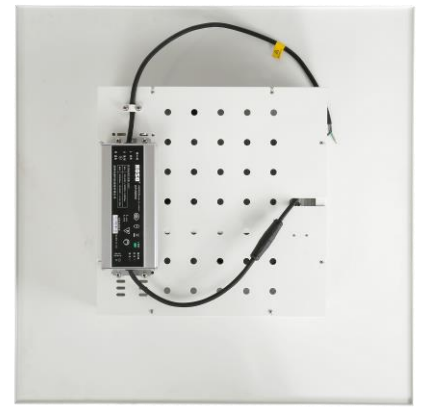
- External Design Features



Front view

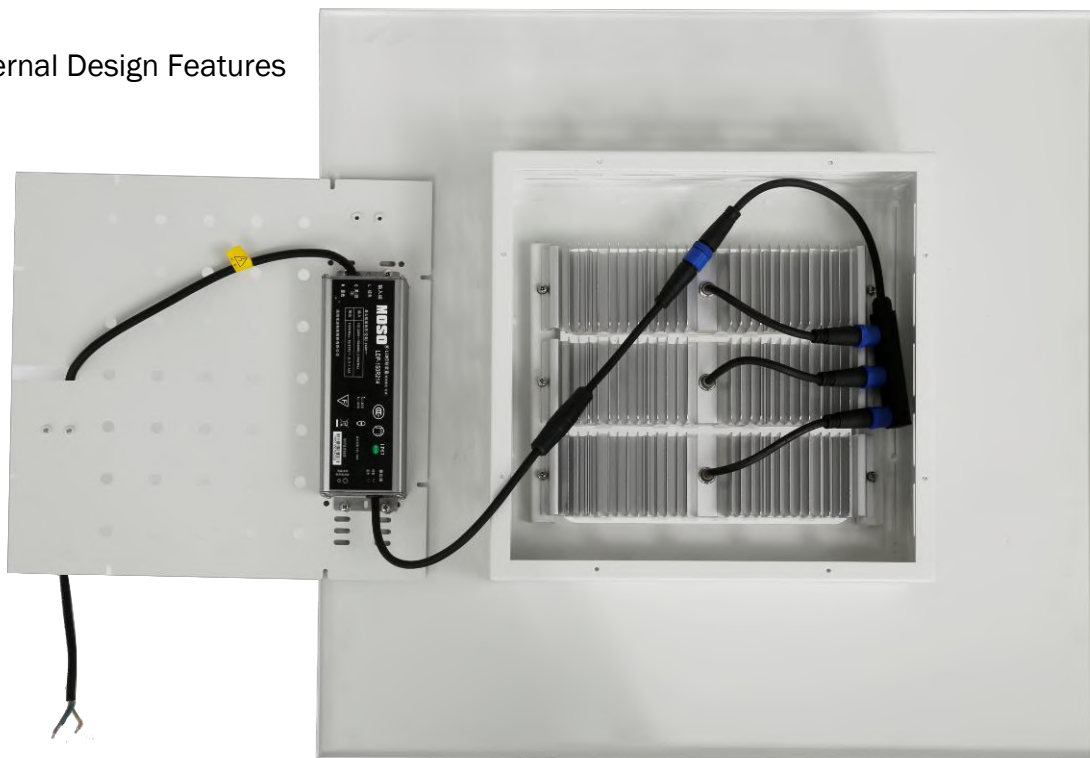


Back view: GS1A-(1~3)



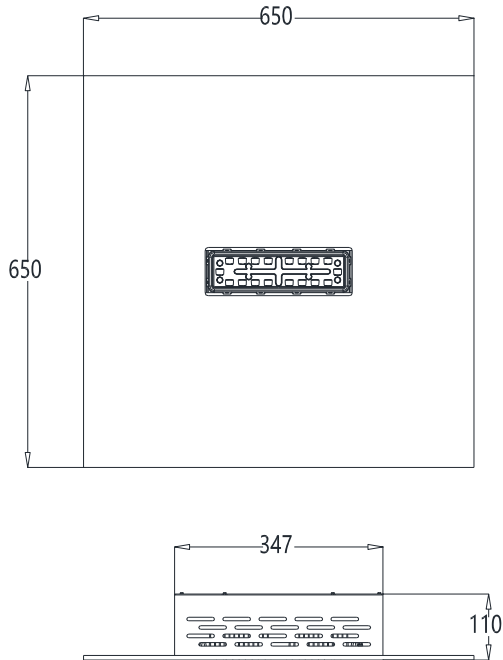
Back view: GS1A-4)

- Internal Design Features

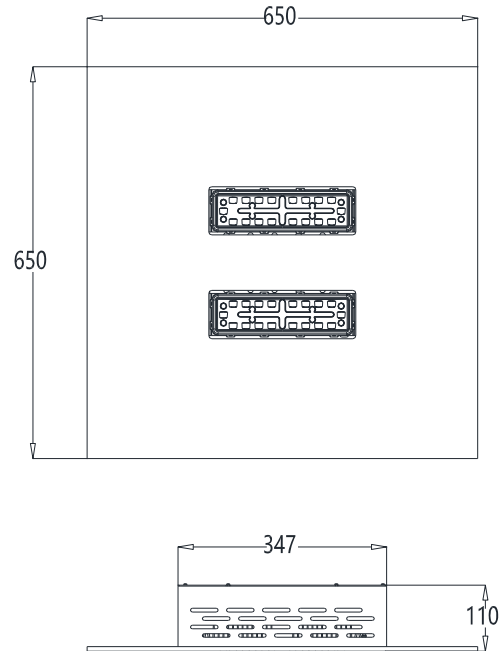


Dimensions

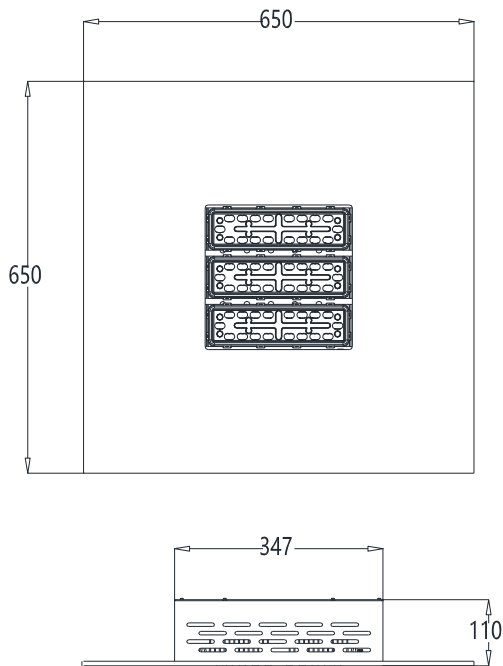
• GS1A-1



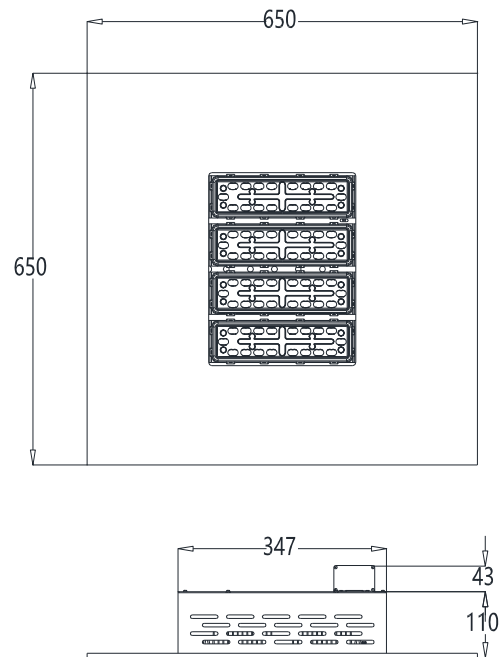
• GS1A-2



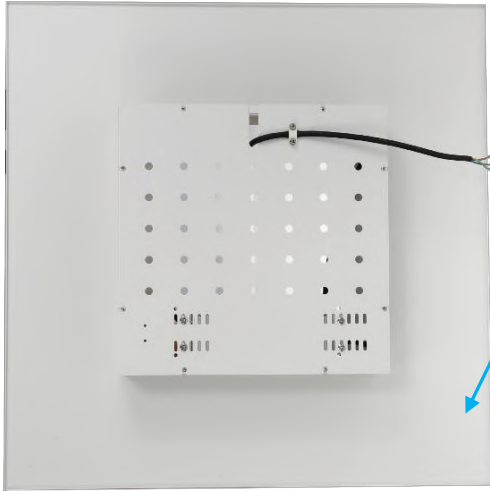
• GS1A-3



• GS1A-4

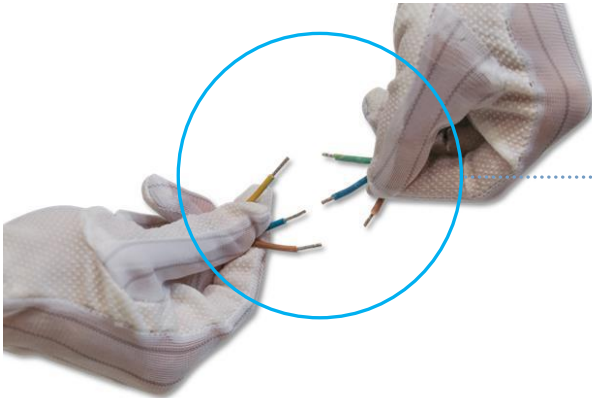


Installation



1

1. Drill four to eight holes around the edge of the housing, and embed it into the ceiling.



2

2. Connect the wires to AC power correctly. Make sure it's grounded sufficiently.





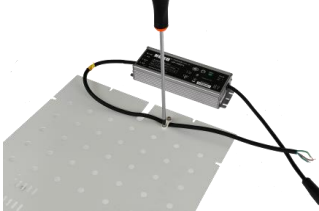



3

3. Installation finished.

Maintenance

Driver & Electrical Parts

			
<p>1. Remove the fixture from the ceiling and put it on a worktable.</p>	<p>2. Disconnect it from AC power.</p>	<p>3. Undo the eight M3x6 cross recessed pan head screws.</p>	<p>4. Open the cover.</p>
			
<p>5. Disconnect the driver from modules at the waterproof connectors.</p>	<p>6. Undo the two M4x10 screws at the ends of the driver.</p>	<p>7. Undo the two M4x12 screws at the cable clip</p>	<p>8. Replace the failed driver with a new one.</p>
			
<p>9. Connect and tighten up each part back step by step. Maintenance finished.</p>			

Maintenance

Modules

			
<p>1. Remove the fixture from the ceiling and put it on a worktable.</p>	<p>2. Disconnect it from AC power.</p>	<p>3. Undo the eight M3x6 cross recessed pan head screws</p>	<p>4. Open the cover.</p>
			
<p>5. Undo the two M4x10 screws at ends of the module.</p>	<p>6. Disconnect the failed module from the driver at the waterproof connectors.</p>	<p>7. Replace the failed module with a new one.</p>	<p>8. Connect and tighten up each part back step by step. Maintenance finished.</p>

Ordering Information

- Example: GS1A-3-150WH-M1L1010-740-MO-D

Luminary Type	Luminary Series	Module Qty.	System Power	Housing Color	LED Module Type	LED Brand
GS Gas station light	1A 1A series	2 2 modules	80 80W	WH White	M1 M1 Series	L Lumileds
		3 3 modules	100 100W		M8 M8 Series	
		4 4 modules	120 120W		M16 M16 Series	
			150 150W			
					

Lens Code	CRI	CCT	Driver Brand	Option of Driver
3560 60 Degree	7 Ra≥70	30 3000K	MO MOSO	D Dimming
3725 25 Degree	8 Ra≥80	40 4000K	MW MEAN WELL	S Non-dimming
3590 90 Degree	OTH Others	50 5000K	PH PHILIPS	
5340 40 Degree		57 5700K	IN INVENTRONICS	
5390 90 Degree			AD ADAYO	
.....			OTH OTHER	

Version History

Change Date	Version	Description of Change		
		Item	From	To
2016/05/10	Ver2.0	Datasheets release	/	/
2017/05/19	Ver2.1	M16 module	/	Add
2017/06/22	Ver2.2	Carton size	720*720*160mm	725*725*170mm
2017/12/07	Ver2.3	Power modification	GS1A-4-240W	Delete