



GS1A Series LED Gas Station Light (Ver2.3)

Applications

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



Standard Colors



White

Features


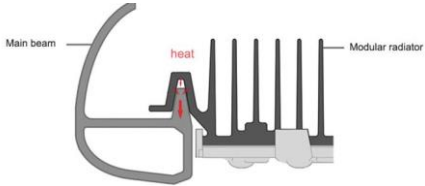

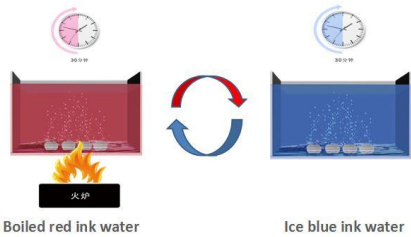


- Unique patented IP68 (highest protection level) LED light engines;
- Ergonomic and dedicated lighting distributions available for gas station lighting;
- Whole structure heating dissipation design with best thermal conduction, radiation and convection;
- Flexible to reach desired power selections by 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.





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Technical Advantages

		
Air Convection Effect	Whole-structure Heat Dissipation	Tool-less Maintenance
	 <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>	
Double-coupling IP68 Protection	High-efficacy LED Light Source	Flexible Combinations of Modules



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Electrical & Photometric

✧ Average efficacy option

Model	Input Voltage (V)	Drive	Power (w)	M1/M2		M8		Power Factor	Power Efficiency	LED Brand	CCT (k)	CRI
	Frequency	Current		Efficacy (lm/w)	Lumens (lm)	Efficacy (lm/w)	Lumens (lm)					
	Range(Hz)	(mA)										
GS1A-1	AC100-240 50/60	700	40	105±5	4200±200	130±5	5200±200	0.95	88%	Lumileds	3000 4000 5000 5700	≥70
		860	50	100±5	5000±250	125±5	6250±250					
		1050	60	95±5	5700±300	117±5	7020±300					
GS1A-2	AC100-240 50/60	700	80	110±5	8800±400	130±5	10400±400	0.95	91%			
		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%			
		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%			
		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					



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Electrical & Photometric

✧ High efficacy option

Model	Input Voltage (V)	Drive Current (mA)	Power (w)	M16		Power Factor	Power Efficiency	LED Brand	CCT (k)	CRI
	Frequency Range(Hz)			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%		4000	
		800(14P2S)	120	158±8	18960±960				5000	
		1000(9P2S)	150	143±8	21450±1200				5700	
		1000(14P2S)	150	152±8	22800±1200					
GS1A-4	AC100-240 50/60	800(9P2S)	160	150±8	24000±1280	0.95	91%			
		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

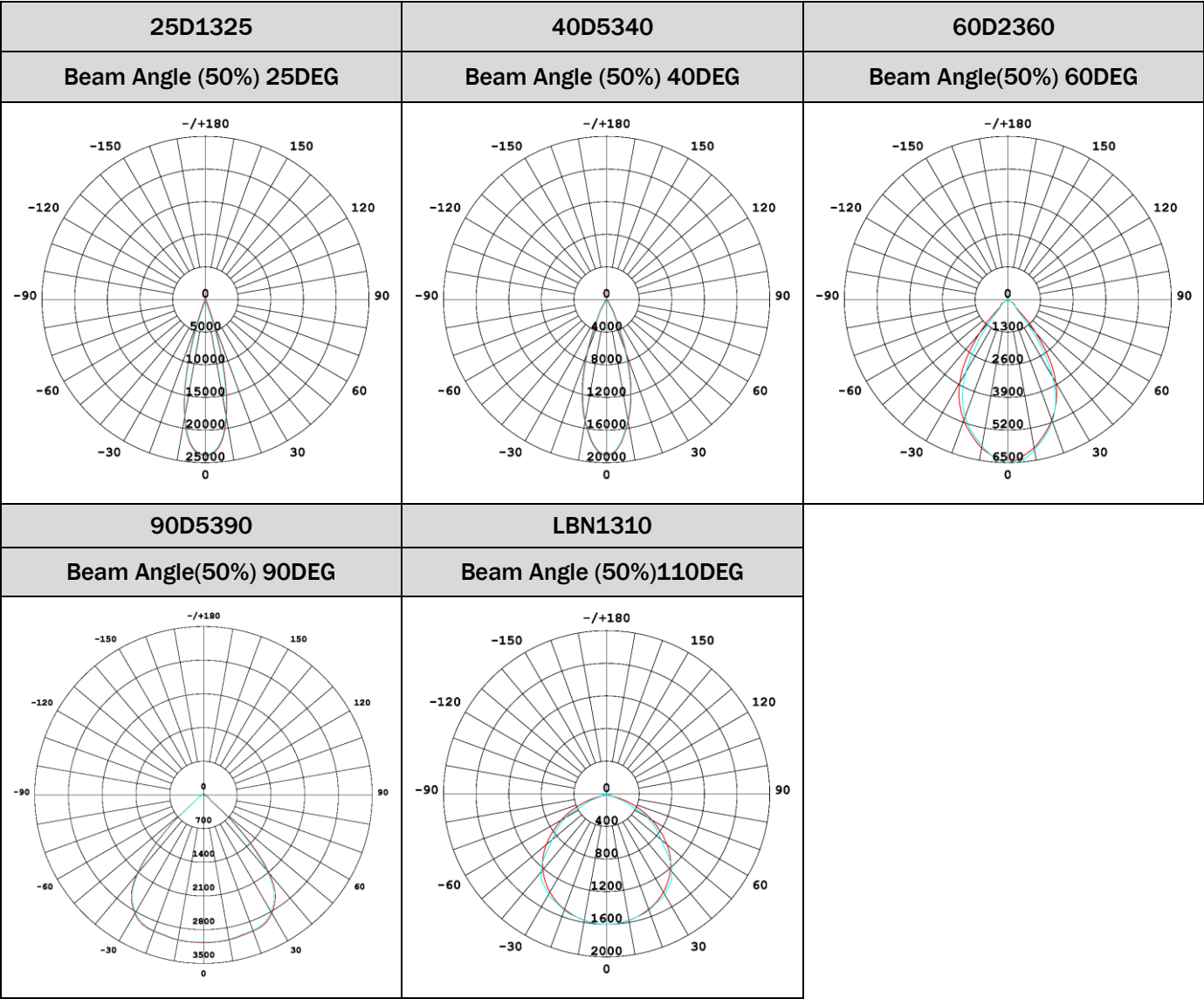
Note: Above data of weight are calculated based on MOSO brand driver, 50W/each module.



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Light Distributions

➤ M8B LED module





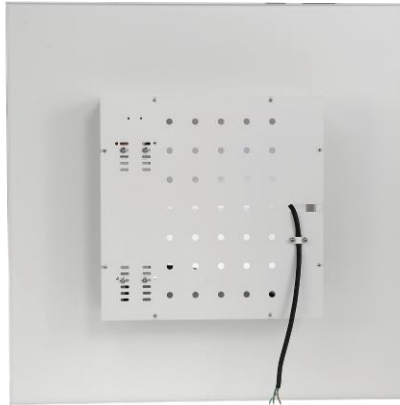
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Design Features

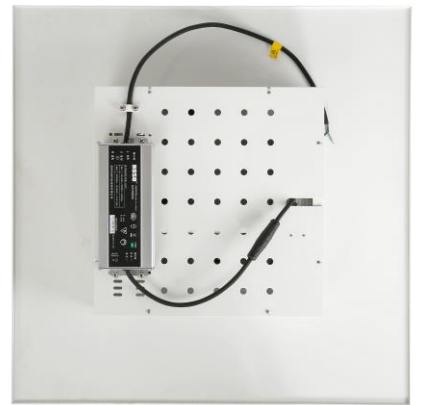
- External Design Features



Front view

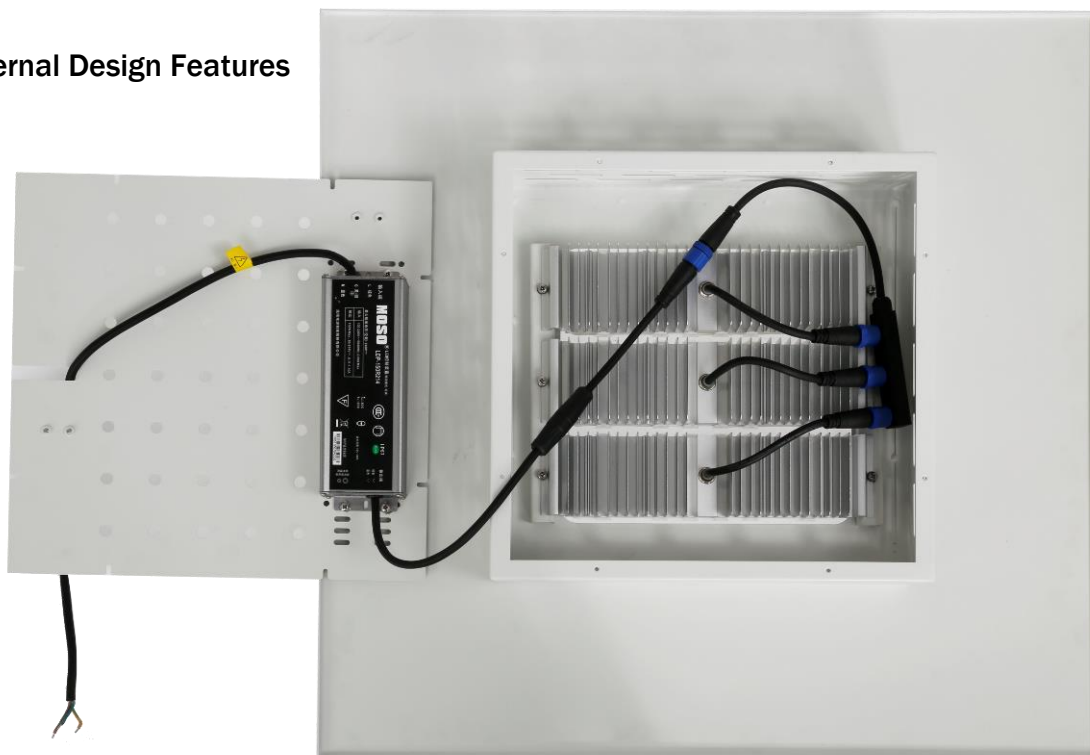


Back view: GS1A-(1~3)



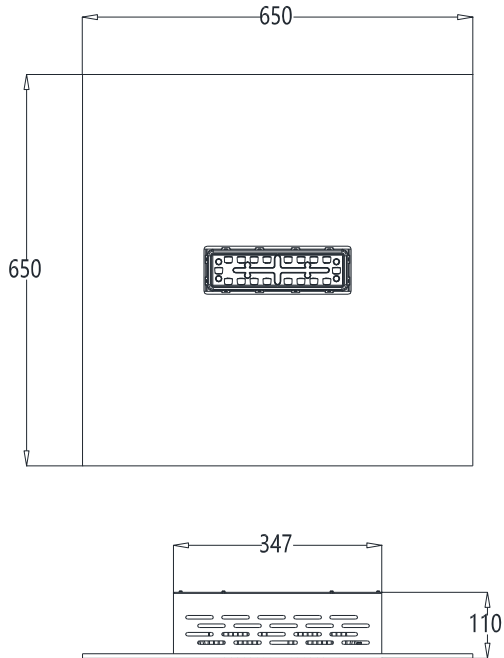
Back view: GS1A-4)

- Internal Design Features

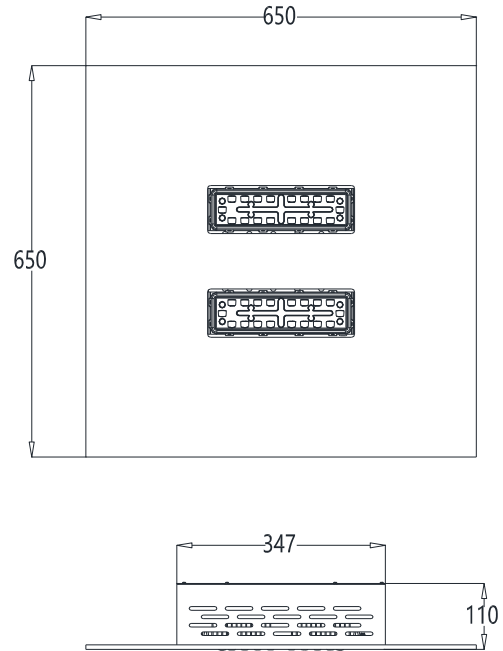


Dimensions

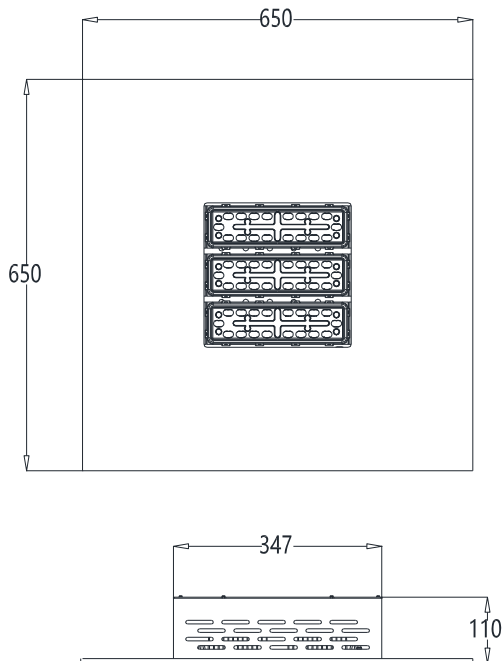
- GS1A-1



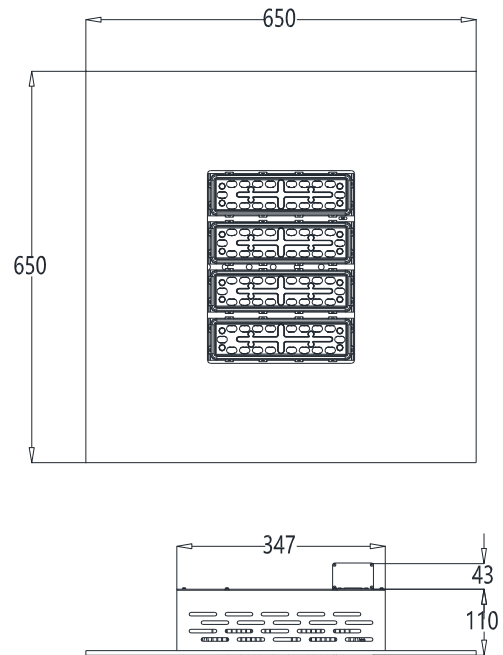
- GS1A-2



- GS1A-3



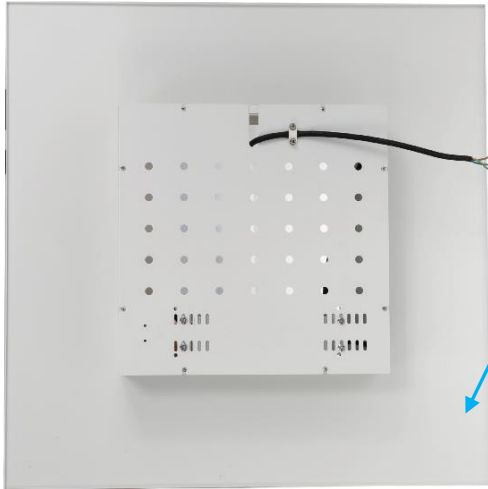
- GS1A-4





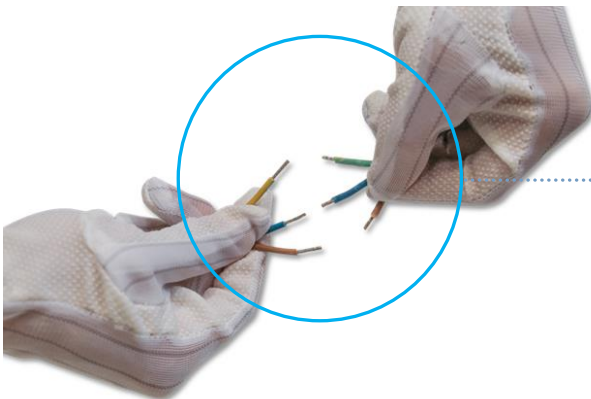
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Installation



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







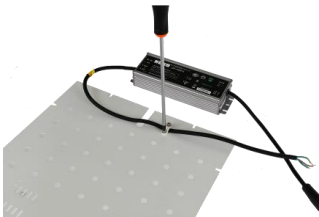


3 Installation finished.



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Maintenance

Driver & Electrical Parts



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



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Maintenance

Modules

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