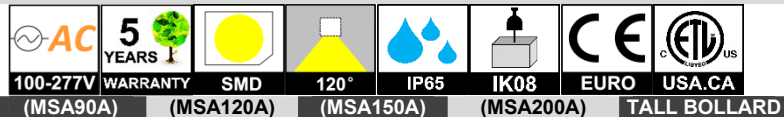


STEFFEN: LED GARDEN LIGHT



INTRODUCTION

FEATURE

Perfect Luminaires for Driveways and Footpaths
Pleasantly Uniform Light Effects
Suitable for Areas Without Risk of Vandalism
Long Lifespan Design >50,000hours
Working Temperature: -30°C~50°C

MAIN MATERIAL

LED Brand: GUBO
Remote Driver Brand: GUBO
Housing: Die-casted Aluminum
Optics: Nano Opal PC Lens
[BDC] Diffuser: Anti-UV PC Clear Diffuser
[BDM] Diffuser: Anti-UV PC Opal Diffuser

INSTALLATION

Suitable for Interior & Exterior Lighting
[FWA]: Wall Surface Mounted
[FWH]: Updown Lighting Wall Surface Mounted
[FSC]: Slip Fitter Mounted
[FJP]: Fixing Plate on JBOX/Outlet Box
[PSA]: Aluminum Straight Bollard

NOTES: Custom Installation and Accessories
Referred to Another Catalogue of Fixing Kits.

STANDARD

Designed and Manufactured to Comply with
CE/RoHS/CB/cETL/SAA/SASO Standard
IP65 Protection, Class I Electric

OPTIONS

LED CCT: 1,600K~10,000K/R/G/B/Y
[CRI]: [E] RA80, [G] RA90, [H] RA97(RG0)(RG0)
Working Temperature[M40C]: -40°C~50°C
F1: Custom Housing Finish Colors by RAL Code

WHITE	BLACK	DARK GREY	GREY	PEARL GREY
RAL9010P	RAL9005P	RAL7016P	RAL7043P	RAL9022P



MODEL	POWER [W]	LED TYPE	CCT [K]		CRI	FLUX [LM]	POWER FACTOR	BEAM ANGLE	OPTIONAL DIMMING	INPUT [V]	
STEFFEN-MSA90A5R 	12W [15W] [10W] [7W]	CXM-6 COB	G2700K		RA90	310	>0.9	[Asymmetric] BAS24D:24° BAS38D:38° BAS60D:60° BAS90D:90°	Following by Remote Driver [Inside Bollard]	AC100~277V [AC100~240V] [AC100~347V] 50/60Hz [+CV DC12V] [+CV DC24V] [+CV DC42V]	
			G3000K		RA90	320			[CDN]: Non-dimmable [CDT]: TRIAC(10%) [CDV]: 0/1~10V(8%) [CDV0]: 0~10V(1%) [CDV1]: 1~10V(10%) [CDA]: DALI(1%) [CDX]: DMX512(1%) [+CDP]: PWM(1%)		
			G3500K		RA90	320					
			G4000K		RA90	340					
			G5000K		RA90	340					
			G6000K		RA90	320					
	2C@12W	TWG	G2700K	G6000K	RA90	230	>0.9				
STEFFEN-MSA120A5R 	20W [30W] [25W]	CXM-9 COB	G2700K		RA90	520	>0.9				Following [Sensor]
			G3000K		RA90	540			[CSL]: Photocell Lux Sensor		
			G3500K		RA90	540			[CSPD]: Big-level PIR Motion Sensor		
			G4000K		RA90	570			[CSMD]: Big-level Microwave Motion Sensor		
			G5000K		RA90	570					
			G6000K		RA90	540					
	2C@20W	TWG	G2700K	G6000K	RA90	460	>0.9				
STEFFEN-MSA150A5R 	40W [50W] [30W] [25W] [20W]	CXM-14 COB	G2700K		RA90	1040	>0.9				Following by Remote Driver [Outside Bollard]
			G3000K		RA90	1080			[CDX]: DMX512(1%) [CDS]: SPI(1%) [CRZ]: ZIGBEE(1%) [CRF]: 2.4G RF(1%) [CRB]: Bluetooth(1%)		
			G3500K		RA90	1080					
			G4000K		RA90	1130					
			G5000K		RA90	1130					
			G6000K		RA90	1050					
	2C@40W	TWG	G2700K	G6000K	RA90	930	>0.9				
STEFFEN-MSA200A5R 	60W [80W] [50W] [40W] [30W]	CXM-14 COB	G2700K		RA90	1560	>0.9				
			G3000K		RA90	1630					
			G3500K		RA90	1630					
			G4000K		RA90	1700					
			G5000K		RA90	1700					
			G6000K		RA90	1630					
	2C@60W	TWG	G2700K	G6000K	RA90	1390	>0.9				

NOTE:

All parameters are measured at 25°C ambient temperature, 35% humidity experimental environment.
Tolerances of power and luminous flux are ±10%, tolerance of color rendering index is ±5.

STEFFEN: LED GARDEN LIGHT

SPECIFICATION

MODEL	POWER [W]	LED TYPE	CCT [K]		CRI	FLUX [LM]	POWER FACTOR	BEAM ANGLE	OPTIONAL DIMMING	INPUT [V]		
STEFFEN-MSA90A1 	12W [15W] [10W] [7W]	48x0.5W SMD2835	G1800K		RA90	340	>0.9	[Asymmetric] BAS90D:90°				
			G2200K		RA90	380						
			G2500K		RA90	420						
			G2700K		RA90	440						
			G3000K		RA90	470						
			G3500K		RA90	470						
			G4000K		RA90	500						
G5000K		RA90	500									
G6000K		RA90	490									
2C@12W	TWG	G2700K	G6000K	RA90	440	>0.9						
4C@12W	RGBWG	620nm	520nm	465nm	G2700K	\	440				>0.9	
4C@12W	RGBA	620nm	520nm	465nm	590nm	\	440				>0.9	
STEFFEN-MSA120A1 	20W [30W] [20W] [15W]	120x0.5W SMD2835	G1800K		RA90	570	>0.9				[CDN]:Non-dimmable [CDT]:TRIAC(10%) [CDV]:0/1~10V(8%) [CDV0]:0~10V(1%) [CDV1]:1~10V(10%) [CDA]:DALI(1%) [CDX]:DMX512(1%) [+CDP]:PWM(1%)	
			G2200K		RA90	630						
			G2500K		RA90	700						
			G2700K		RA90	740						
			G3000K		RA90	790						
			G3500K		RA90	790						
			G4000K		RA90	830						
G5000K		RA90	830									
G6000K		RA90	820									
2C@20W	TWG	G2700K	G6000K	RA90	740	>0.9						
4C@20W	RGBWG	620nm	520nm	465nm	G2700K	\	740		>0.9			
4C@20W	RGBA	620nm	520nm	465nm	590nm	\	740		>0.9			
STEFFEN-MSA150A1 	40W [50W] [30W] [25W] [20W]	216x0.5W SMD2835	G1800K		RA90	1140	>0.9		[CSL]: Photocell Lux Sensor  [CSPD]: Big-level PIR Motion Sensor  [CSMD]: Big-level Microwave Motion Sensor  Following by Remote Driver [Outside Bollard] [CDX]:DMX512(1%) [CDS]:SPI(1%) [CRZ]:ZIGBEE(1%) [CRF]:2.4G RF(1%) [CRB]:Bluetooth(1%)	AC100~277V [AC100~240V] [AC100~347V] 50/60Hz [+CV DC12V] [+CV DC24V] [+CV DC42V]		
			G2200K		RA90	1260						
			G2500K		RA90	1400						
			G2700K		RA90	1480						
			G3000K		RA90	1570						
			G3500K		RA90	1570						
			G4000K		RA90	1660						
G5000K		RA90	1660									
G6000K		RA90	1640									
2C@40W	TWG	G2700K	G6000K	RA90	1480	>0.9						
4C@40W	RGBWG	620nm	520nm	465nm	G2700K	\	1480				>0.9	
4C@40W	RGBA	620nm	520nm	465nm	590nm	\	1480				>0.9	
STEFFEN-MSA200A1 	60W [80W] [50W] [40W] [30W]	288x0.5W SMD2835	G1800K		RA90	1710	>0.9					
			G2200K		RA90	1900						
			G2500K		RA90	2110						
			G2700K		RA90	2220						
			G3000K		RA90	2360						
			G3500K		RA90	2360						
			G4000K		RA90	2500						
G5000K		RA90	2500									
G6000K		RA90	2460									
2C@60W	TWG	G2700K	G6000K	RA90	2220	>0.9						
4C@60W	RGBWG	620nm	520nm	465nm	G2700K	\	2220		>0.9			
4C@60W	RGBA	620nm	520nm	465nm	590nm	\	2220		>0.9			
STEFFEN-MSA250A1 	80W [100W] [60W] [50W] [40W]	360x0.5W SMD2835	G1800K		RA90	2280	>0.9					
			G2200K		RA90	2530						
			G2500K		RA90	2810						
			G2700K		RA90	2960						
			G3000K		RA90	2960						
			G3500K		RA90	3150						
			G4000K		RA90	3150						
G5000K		RA90	3330									
G6000K		RA90	3330									
2C@40W	TWG	G2700K	G6000K	RA90	3280	>0.9						
4C@40W	RGBWG	620nm	520nm	465nm	G2700K	\	2960				>0.9	
4C@40W	RGBA	620nm	520nm	465nm	590nm	\	2960				>0.9	

NOTE:

All parameters are measured at 25℃ ambient temperature, 35% humidity experimental environment.
Tolerances of power and luminous flux are ±10%, tolerance of color rendering index is ±5.

STEFFEN: LED GARDEN LIGHT

SPECIFICATION

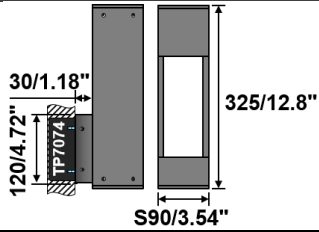
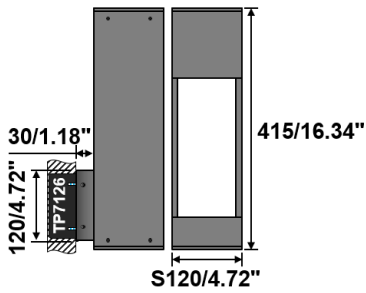
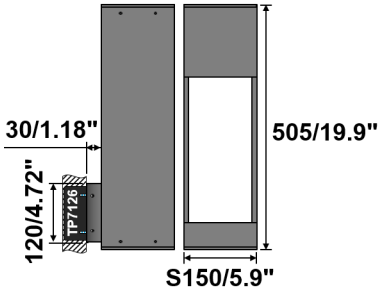
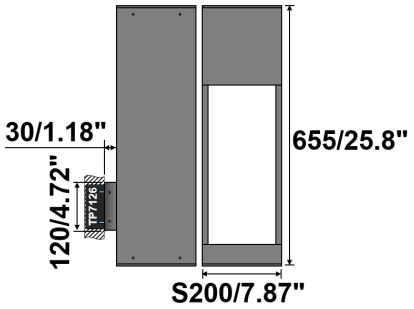
MODEL	POWER [W]	LED TYPE	CCT [K]		CRI	FLUX [LM]	POWER FACTOR	BEAM ANGLE	OPTIONAL DIMMING	INPUT [V]		
STEFFEN-MSA90A2A 	12W [15W] [10W] [7W]	24x2W SMD3030	G1800K		RA90	250	>0.9	[Asymmetric] BAS30D:30° BAS60D:60° BAS90D:90°				
			G2200K		RA90	280						
			G2500K		RA90	310						
			G2700K		RA90	330						
			G3000K		RA90	350						
			G3500K		RA90	350						
			G4000K		RA90	380						
G5000K		RA90	380									
G6000K		RA90	370									
2C@12W	TWG	G2700K	G6000K	RA90	330	>0.9						
4C@12W	RGBWG	620nm	520nm	465nm	G2700K	\	330				>0.9	
4C@12W	RGBA	620nm	520nm	465nm	590nm	\	330				>0.9	
STEFFEN-MSA120A2A 	20W [30W] [20W] [15W]	24x2W SMD3030	G1800K		RA90	420	>0.9		[Asymmetric] BAS30D:30° BAS60D:60° BAS90D:90°		Following by Remote Driver [Inside Bollard] [CDN]:Non-dimmable [CDT]:TRIAC(10%) [CDV]:0/1~10V(8%) [CDV0]:0~10V(1%) [CDV1]:1~10V(10%) [CDA]:DALI(1%) [CDX]:DMX512(1%) [+CDP]:PWM(1%)	
			G2200K		RA90	460						
			G2500K		RA90	520						
			G2700K		RA90	550						
			G3000K		RA90	590						
			G3500K		RA90	590						
			G4000K		RA90	630						
G5000K		RA90	630									
G6000K		RA90	620									
2C@20W	TWG	G2700K	G6000K	RA90	550	>0.9						
4C@20W	RGBWG	620nm	520nm	465nm	G2700K	\	550	>0.9				
4C@20W	RGBA	620nm	520nm	465nm	590nm	\	550	>0.9				
STEFFEN-MSA150A2A 	40W [50W] [30W] [25W] [20W]	60x2W SMD3030	G1800K		RA90	840	>0.9	[Asymmetric] BAS30D:30° BAS60D:60° BAS90D:90°	Following [Sensor] [CSL]: Photocell Lux Sensor  [CSPD]: Big-level PIR Motion Sensor  [CSMD]: Big-level Microwave Motion Sensor  Following by Remote Driver [Outside Bollard] [CDX]:DMX512(1%) [CDS]:SPI(1%) [CRZ]:ZIGBEE(1%) [CRF]:2.4G RF(1%) [CRB]:Bluetooth(1%)	AC100~277V [AC100~240V] [AC100~347V] 50/60Hz [+CV DC12V] [+CV DC24V] [+CV DC42V]		
			G2200K		RA90	930						
			G2500K		RA90	1040						
			G2700K		RA90	1090						
			G3000K		RA90	1180						
			G3500K		RA90	1180						
			G4000K		RA90	1260						
G5000K		RA90	1260									
G6000K		RA90	1240									
2C@40W	TWG	G2700K	G6000K	RA90	1090	>0.9						
4C@40W	RGBWG	620nm	520nm	465nm	G2700K	\	1090				>0.9	
4C@40W	RGBA	620nm	520nm	465nm	590nm	\	1090				>0.9	
STEFFEN-MSA200A2A 	60W [80W] [50W] [40W] [30W]	96x2W SMD3030	G1800K		RA90	1260	>0.9	[Asymmetric] BAS30D:30° BAS60D:60° BAS90D:90°	Following [Sensor] [CSL]: Photocell Lux Sensor  [CSPD]: Big-level PIR Motion Sensor  [CSMD]: Big-level Microwave Motion Sensor  Following by Remote Driver [Outside Bollard] [CDX]:DMX512(1%) [CDS]:SPI(1%) [CRZ]:ZIGBEE(1%) [CRF]:2.4G RF(1%) [CRB]:Bluetooth(1%)		AC100~277V [AC100~240V] [AC100~347V] 50/60Hz [+CV DC12V] [+CV DC24V] [+CV DC42V]	
			G2200K		RA90	1400						
			G2500K		RA90	1550						
			G2700K		RA90	1640						
			G3000K		RA90	1760						
			G3500K		RA90	1760						
			G4000K		RA90	1900						
G5000K		RA90	1900									
G6000K		RA90	1850									
2C@60W	TWG	G2700K	G6000K	RA90	1640	>0.9						
4C@60W	RGBWG	620nm	520nm	465nm	G2700K	\	1640					>0.9
4C@60W	RGBA	620nm	520nm	465nm	590nm	\	1640					>0.9
STEFFEN-MSA250A2A 	80W [100W] [60W] [50W] [40W]	144x2W SMD3030	G1800K		RA90	1680	>0.9	[Asymmetric] BAS30D:30° BAS60D:60° BAS90D:90°	Following [Sensor] [CSL]: Photocell Lux Sensor  [CSPD]: Big-level PIR Motion Sensor  [CSMD]: Big-level Microwave Motion Sensor  Following by Remote Driver [Outside Bollard] [CDX]:DMX512(1%) [CDS]:SPI(1%) [CRZ]:ZIGBEE(1%) [CRF]:2.4G RF(1%) [CRB]:Bluetooth(1%)	AC100~277V [AC100~240V] [AC100~347V] 50/60Hz [+CV DC12V] [+CV DC24V] [+CV DC42V]		
			G2200K		RA90	1870						
			G2500K		RA90	2070						
			G2700K		RA90	2180						
			G3000K		RA90	2350						
			G3500K		RA90	2350						
			G4000K		RA90	2520						
G5000K		RA90	2520									
G6000K		RA90	2470									
2C@40W	TWG	G2700K	G6000K	RA90	2180	>0.9						
4C@40W	RGBWG	620nm	520nm	465nm	G2700K	\	2180					>0.9
4C@40W	RGBA	620nm	520nm	465nm	590nm	\	2180					>0.9

NOTE:

All parameters are measured at 25℃ ambient temperature, 35% humidity experimental environment.
Tolerances of power and luminous flux are ±10%, tolerance of color rendering index is ±5.

SPECIFICATION

STEFFEN: SQUARE LED GAREN LIGHT

[FWA] Wall Surface Mounted Light		DIMENSION:[UNIT: MM]
NOTES: Customs Engraved Pattern and Glare shield Referred to Another Specifications.		
NOTES: Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.		
(MSA90A)-[FWA]	DIMENSION	
		
(MSA120A)-[FWA]	DIMENSION	
		
(MSA150A)-[FWA]	DIMENSION	
		
(MSA20A)-[FWA]	DIMENSION	
		

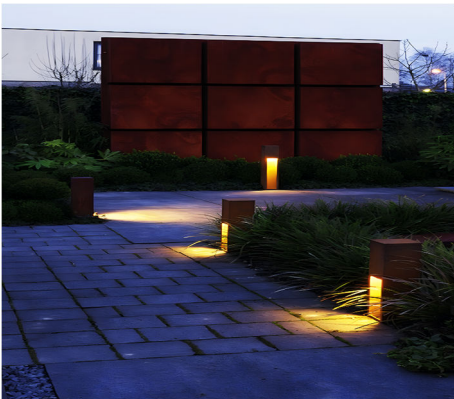
SPECIFICATION

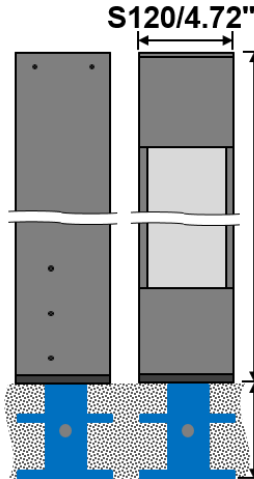
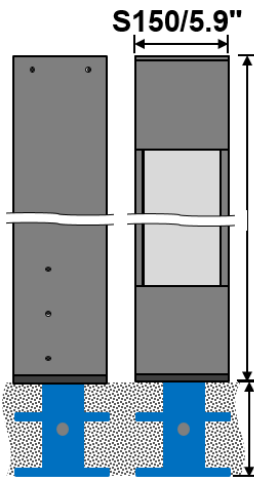
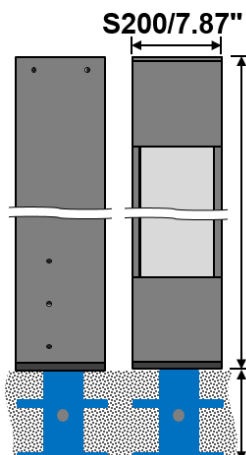
STEFFEN: SQUARE LED GAREN LIGHT

[FWR] Wall Recessed Light		DIMENSION:[UNIT: MM]	
NOTES: Customs Engraved Pattern and Glare shield Referred to Another Specifications.			
NOTES: Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.			
(MSA90A)-[FWR]	DIMENSION		
	[FNE] L75/3" S90/3.54" [FWR] L325/12.8" L505/19.9" L685/27" L865/34" L1045/41.2" L1225/48.3" L1585/62.4" L1945/76.6" L2304/90.8"		
(MSA120A)-[FWR]	DIMENSION		
	[FNE] L75/3" S120/4.72" [FWR] L415/16.4" L655/25.8" L895/35.3" L1375/54.2" L1615/63.6" L2095/82.5" L2575/101.4"		
(MSA150A)-[FWR]	DIMENSION		
	[FNE] L75/3" S150/5.9" [FWR] L355/14" L505/19.9" L655/25.8" L805/31.7" L955/37.6" L1105/43.5" L1555/61.2" L2005/80" L2455/96.7"		
(MSA200A)-[FWR]	DIMENSION		
	[FNE] L75/3" S200/7.87" [FWR] L455/18" L655/25.8" L855/33.7" L1055/41.6" L1255/49.5" L1455/57.3" L1855/73" L2455/96.7" L3055/120.3" L3455/136"		

SPECIFICATION

STEFFEN: SQUARE LED GAREN LIGHT

[FLC]-[FNE] Bollard Light		DIMENSION:[UNIT: MM]
NOTES: Customs Engraved Pattern and Glare shield Referred to Another Specifications.		
NOTES: Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.		
(MSA90A)-[FLC]-[FNE]	DIMENSION	CASE STUDY
	S90/3.54" [FLC] L330/13" L510/20.1" L690/27.2" L870/34.3" L1050/41.4" L1230/48.4" [FNE] L125/5"	
(MSA120A)-[FLC]-[FNE]	DIMENSION	CASE STUDY
	S120/4.72" [FLC] L420/16.5" L660/26" L900/35.4" L1140/44.9" L1380/54.3" L1620/63.8" [FNE] L125/5"	
(MSA150A)-[FLC]-[FNE]	DIMENSION	CASE STUDY
	S150/5.9" [FLC] L510/20.1" L810/31.9" L1110/43.7" L1410/55.5" [FNE] L125/5"	
(MSA200A)-[FLC]-[FNE]	DIMENSION	CASE STUDY
	S200/7.87" [FLC] L460/18" L660/26" L1060/41.7" L1460/57.5" [FNE] L125/5"	

[FLC]-[FNA] Tall Bollard Light		DIMENSION:[UNIT: MM]	
NOTES:	Customs Engraved Pattern and Glare shield Referred to Another Specifications.		
NOTES:	Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.		
(MSA120A)-[FLC]-[FNA]	DIMENSION	CASE STUDY	
	 S120/4.72" [FLC] L2040/80.4" L2400/94.5" L3000/118.1" [FNA] L380/15"		
(MSA150A)-[FLC]-[FNA]	DIMENSION	CASE STUDY	
	 S150/5.9" [FLC] L1800/70.9" L2100/82.7" L2400/94.5" L3000/118.1" L3600/141.7" [FNA] L510/20"		
(MSA200A)-[FLC]-[FNA]	DIMENSION	CASE STUDY	
	 S200/7.87" [FLC] L1800/70.9" L2000/78.7" L2400/94.5" L3000/118.1" L3600/141.7" [FNA] L510/20"		

[FLC]-[PSA]-[FNA] Tall Bollard Light		DIMENSION:[UNIT: MM]
NOTES:	Customs Engraved Pattern and Glare shield Referred to Another Specifications.	
NOTES:	Custom Installation and Accessories Referred to Another Catalogue of Fixing Kits.	
(MSA120A)-[FLC]-[PSA]-[FNA]	DIMENSION	CASE STUDY
	S120/4.72" [FLC] L655/25.8" L895/35.3" L1375/54.2" L1615/63.6" L2095/82.5" L2575/101.4" [PSA] L620/24.4" L920/36.2" L1220/48" L1520/60" L1820/71.7" [FNA] L380/15"	
(MSA150A)-[FLC]-[PSA]-[FNA]	DIMENSION	CASE STUDY
	S150/5.9" [FLC] L655/25.8" L955/37.6" L1105/43.5" L1555/61.2" L2005/80" L2455/96.7" [PSA] L620/24.4" L920/36.2" L1220/48" L1520/60" L1820/71.7" [FNA] L510/20"	
(MSA200A)-[FLC]-[PSA]-[FNA]	DIMENSION	CASE STUDY
	S200/7.87" [FLC] L655/25.8" L855/33.7" L1055/41.6" L1255/49.5" L1455/57.3" L1855/73" L2455/96.7" [PSA] L620/24.4" L920/36.2" L1220/48" L1520/60" L1820/71.7" [FNA] L510/20"	