









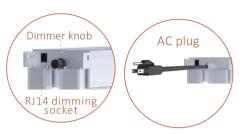


MG SERIES LED GROW LIGHTS

Spec Sheets



General version



Product Description

- Fanless design
- 150 x 150 cm wide coverage
- IP65 waterproof
- Dimmable: 0-10V
- Slim design and 180 degree foldable
- OSRAM LEDS, LM-80
- ETL, DLC, UL8800, CE certification
- Input Voltage:100-277VAC / 277-480VAC
- Replaceable bars and drivers
- **№** Uniform PPFD distribution

Foldable Design



MG8 is 180 degree foldable, easy to handle and save packing space. Plug and play design. Portable and easy to install.



Easy Maintenance



LED bar and driver are replaceable, easy to maintain.

Application Guide

Vertical Farming and Indoor Facility

To replace 1000W HPS/CMH light.

HORTIMOL led Grow Light is 70% higher in PPFD, 33% lower in power consumption and 33% less in BTU. MG8 is especially suitable for vegetation and flowering periods.



MG8 Performance Summary

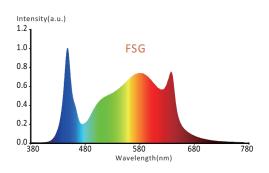
Model	MG	68							
Power Consumption (incl. driver)	660)W							
Input Voltage	AC.	100-277V / A	C277-480V						
Input Current		Max 7.4 A@100Vac / Max 3.2A@230Vac / Max 2.7A@277Vac / Max 2.2A@347Vac / Max 1.6A@480Vac							
Input Frequency	50/	60Hz							
Power Factor	>0.9								
Spectrum	FSG FSM FSMUV								
PPF(µmol/s)	1716	1848	1650	1782	1584	1716			
Efficacy(µmol/J)	2.6 2.8 2.5 2.7 2.4								
Heat Output	2244 BTU/h								
Dimming	0-10V								
Operating Temperature	-4-113°F(-20-45°C)								
Storage Temperature	-40-176°F(-40-80°C)								
Dimensions (L*W*H)	43.0*42.7*2.8inch (1093*1085*72mm)								
Weight	24.	3lbs(11.0kg)							
L70 Rating	>7	78,000 hrs							
L90 Rating	>5	54,000 hrs							
Certification	DLO	C / ETL / UL 8	800 / CE						
DLC Listing Model		6660A8 FSG 2 6660B8 FSG 2							
Location Rating	We	t							
LVD Certification		/EN 60598-2 /EN 60598-1							
AC Voltage	120V 208V 230V 277V 347V								
AC Current	5.61A	3.18A	2.89A	2.41A	1.92A	1.40A			
AC Power	670W	655W	655W	653W	657W	654W			
Power Factor	0.998	0.990	0.987	0.980	0.988	0.972			



Spectrum Options

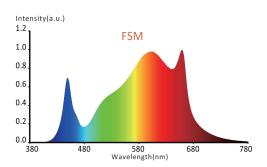
Full Spectrum: FSG

FSG Spectrum, also known as a full Spectrum, offers photon emission across the PAR 400-700nm continuous wavelength range. The overall color temperature is controlled at natural white 4000K. With high blue and red, this tuneful Spectrum is highly recommended to most vegetables and crops and could cover the whole growing cycle.



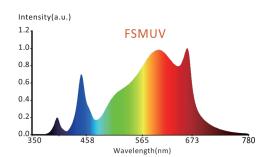
Full Spectrum: FSM

FSM Spectrum is a full Spectrum with high red at 660nm which could highly encourage stem growth, flowering and fruit production, and chlorophyll production while retains a good performance on vegetative stage with 450nm blue. The overall color temperature is 3200K. FSM Spectrum is efficient for rapid growing of cannabis' full phase.



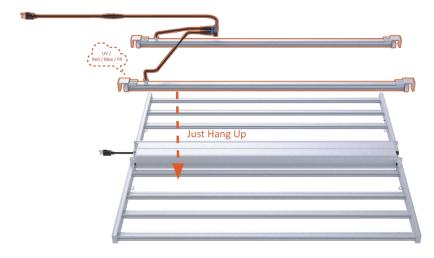
Full Spectrum: FSMUV

FSMUV is a full Spectrum for flowering stage with peak of 400nm ultraviolet radiation. Studies show that THC content can be increased in cannabis plants if UV is operated properly. UV supplementation not only stimulates biomass production in controlled environments, but also enhances secondary metabolite accumulation.



Adjustable Spectrum:

Adding supplemental bars with UV / Red / Blue / FR 730nm spectrum on a full spectrum light fixture, is what we call an adjustable spectrum. It is specially suitable for vegetation and flowering periods to accelerate growth and increase THC content. It is suggested to add two supplemental bars on a MG8 light if required.





LM-80 Report Of OSRAM

IES TM-21-11 Projection

160522W

Appendix A: Lumen Maintenance Projection (IES TM-21-11)

For Information Only!

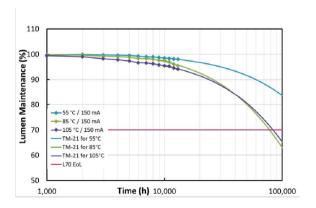
1. General Information

Description of LED light source tested	DURIS E 5 GW JDSRS1.EC
Sample size per temperature	30
LED drive current used in the test	150 mA
Test duration	13,000 hours
Test duration used for projection	8,000 hours to 13,000 hours

2. Projection Data

	T	П	Ш
Case temperature (solder point)	T _S = 55 °C	T _S = 85 °C	T _S = 105 °C
α	1.818E-06	4.821E-06	4.227E-06
В	1.004E+00	1.019E+00	9.957E-01
Reported L70	>78,000 hours	77,955 hours	>78,000 hours

3. Graphic chart



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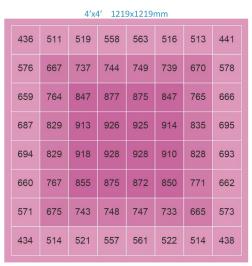
Photon Flux Distribution

Measured in isolation at 100% light intensity with fixture centrally hanging at pre-determined height above a 4'x4' grow area.

660W MG8 PPFD Distribution^{1,2} FSG 2.6µmol/J

	4'x4' 1219x1219mm											
682	694	719	734	737	717	695	679					
1278	1311	1344	1388	1384	1348	1303	1282					
1292	1388	1451	1489	1493	1447	1384	1291					
1280	1324	1344	1506	1499	1345	1318	1275					
1273	1329	1347	1498	1502	1348	1333	1272					
1293	1386	1449	1495	1497	1452	1390	1301					
1274	1301	1342	1380	1388	1335	1310	1285					
675	696	721	733	739	716	693	676					

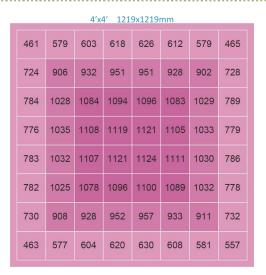
6"/152mm Height



18"/457mm Height

4'x4' 1219x1219mm										
433	472	492	503	502	494	470	432			
485	519	567	570	571	564	518	489			
515	564	614	635	635	607	566	510			
530	592	634	659	656	633	592	532			
527	616	631	653	658	629	591	531			
518	565	611	633	634	603	5644	525			
481	521	564	571	573	570	517	484			
436	473	491	505	499	491	473	439			

30 **"**/762mm Height



12"/305mm Height

4'x4' 1219x1219mm											
433	498	525	530	532	527	500	441				
516	576	623	651	648	624	581	519				
586	647	713	728	731	701	650	593				
601	687	751	779	777	753	689	599				
603	685	752	774	774	751	689	599				
585	651	707	732	727	704	649	587				
510	574	615	647	650	619	579	516				
436	497	523	531	530	524	494	438				

24"/610mm Height

4'x4' 1219x1219mm											
422	449	459	465	466	460	452	420				
459	498	498	515	509	499	498	460				
482	510	553	568	564	554	513	482				
490	524	562	581	577	560	529	487				
490	527	561	578	578	558	522	489				
480	511	553	566	562	554	509	481				
458	495	498	516	515	496	498	457				
423	447	458	467	465	457	449	424				

36"/914mm Height



660W MG8 PPFD Distribution^{1,2} FSG 2.8μmol/J

	4'x4' 1219x1219mm											
766	ŝ	780	808	825	828	806	781	763				
143	6	1473	1510	1560	1555	1515	1464	1440				
145	2	1560	1630	1673	1677	1626	1555	1450				
143	8	1488	1510	1692	1684	1511	1481	1433				
143	0	1493	1513	1683	1688	1515	1498	1429				
145	3	1557	1628	1680	1682	1631	1562	1462				
143	2	1462	1508	1551	1559	1500	1472	1444				
758	3	782	810	824	830	804	779	760				

6"/152mm Height

	4'x4' 1219x1219mm										
49	0	574	583	627	633	580	576	495			
64	7	749	828	836	842	830	753	649			
74	0	858	952	985	983	952	860	748			
77	2	931	1026	1041	1039	1027	938	781			
78	0	932	1032	1043	1043	1022	930	779			
74	2	862	961	983	980	955	866	744			
64	2	758	835	841	839	824	747	644			
48	8	578	585	626	630	587	577	492			

18**"**/457mm Height

	4'x4' 1219x1219mm											
487	530	553	565	564	555	528	485					
545	583	637	640	642	634	582	549					
579	634	690	714	713	682	636	573					
595	665	712	741	737	711	665	598					
592	692	709	734	739	707	664	597					
582	635	686	711	712	677	634	590					
541	585	634	642	644	640	581	544					
490	531	552	567	561	552	532	493					

30 "/762mm Height

4'x4' 1219x1219mm											
518	651	677	694	703	688	650	522				
814	1018	1047	1069	1068	1043	1013	818				
881	1155	1218	1229	1232	1217	1156	886				
872	1163	1245	1257	1259	1242	1161	875				
880	1159	1244	1260	1263	1248	1157	883				
879	1152	1211	1231	1236	1224	1159	874				
820	1020	1043	1070	1075	1048	1024	822				
520	648	679	697	708	683	653	626				

12**"**/305mm Height

	4'x4' 1219x1219mm										
487	560	590	596	598	592	562	495				
580	647	700	732	728	701	653	583				
658	727	801	818	821	788	730	666				
675	772	844	875	873	846	774	673				
677	770	845	870	870	844	774	673				
657	731	794	822	817	791	729	660				
573	645	691	727	730	696	650	580				
490	558	588	597	595	589	555	492				

24"/610mm Height

4'x4' 1219x1219mm								
474	505	516	523	524	517	508	472	
516	559	560	579	572	561	560	517	
542	573	621	638	634	622	576	542	
550	589	631	653	648	629	594	547	
551	592	630	649	649	627	587	549	
539	574	621	636	632	622	572	541	
515	556	559	580	579	557	559	513	
475	502	515	525	523	514	504	476	

36**"**/914mm Height



Dimension



47.0inch /1193mm

Plug Specifications

Plug for the US and Canada



• Plug type: NEMA 5-15P

• 120V AC



• Plug type: NEMA 6-15P

• 240V AC



• Plug type: NEMA L7-15P

• 277V AC

Plug for the EU



• Plug type: CEE 7/7

• 230V AC

Installation

Accessories:



Ratchet Ropes

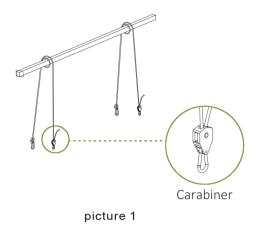
Dimming Cord

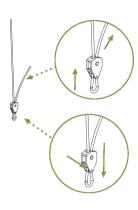


Dimming Connection Cord



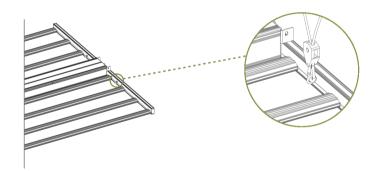
- 1. Hang the ratchet ropes on the beam (picture 1)
- 2. Use the ratchet ropes to adjust the mounting height of the fixture (picture 2)



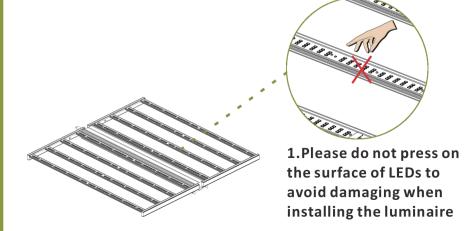


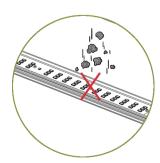
picture 2

3. Lock the carabiners into the rings on the light.









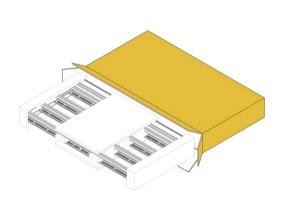
2.Please do not put anything on the surface of the LEDs to prevent damaging of the luminaire

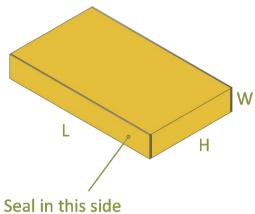


Packing

Туре	Carton Size	G.W per Carton	Quantity per Carton
MG8(660W)	L45.7*W7.5*H24.3inch (L1160*W190*H615mm)	29.1lbs (13.2kg)	1 PCS

MG8





Manufacturer's Recommendations

- 1. Risk of fire or electric shock: turn off power before installing.
- 2. Always use product within Safe Working Load.
- 3. Designed for statically positioned hanging. Do not use for lifting or with dynamic positioning.
- 4. Do not walk or stand on product.
- 5. Always use manufacturer supplied and specified cables. Never use uncoated cables.
- 6. Do not apply oil or any other lubricant to the fastener or any other part of the cable assembly.



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