

Rayonled®



GLMF-700W-E

Lower Power Consumption, Higher Efficiency PPF

GLMF-700W-E is a high performance & affordable top-lighting solution for horticulture. Designed for applications requiring efficient, precise, and uniform levels of PPFD.

1.1 THE GLMF-700E

It can be used as a top light, multi-tiers or indoor grow tent application. This powerful, full-spectrum fixture is intended for full term plant growth from the vegetative stage to the higher light requiring flowering stage.



1.2 HIGH EFFICACY LED DIODES



The GLMF-700E provides $2.7\mu\text{mol}/\text{J}$ efficacy with a total PPF of $1944\mu\text{mol}/\text{s}$.

It can achieve a high average PPFD of over $1200\mu\text{mol}/\text{s m}^2$ at 8" from your canopy.

*See PPFD charts below for PAR readings

1.3 DIMMING OPTIONS

Manual Dimming Knob: 290W / 430W / 580W / 720W / EXT

External Controller: 0-10V dimming via RJ14 port connected to compatible controllers



1.4 FOLDABLE DESIGN

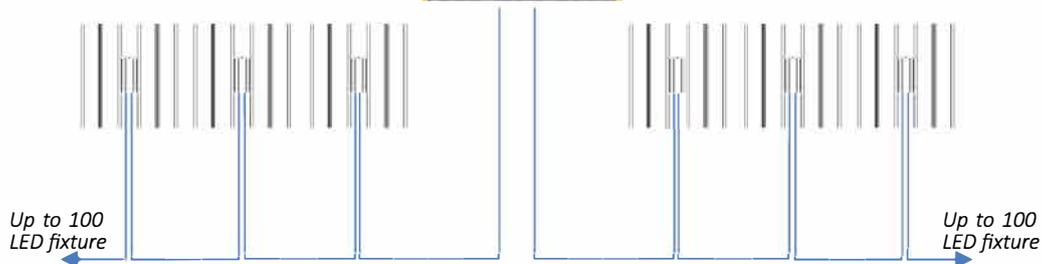
Foldable design feature for easy installation and storage. Simply unfold, hang fixture and install driver, plug and play directly and conveniently.



1.5 OPTIONAL SMART CONTROLLER

GLMF-700E is compatible with our controllers or any RJ14 controller (including TrolMaster). It is equipped with an external RJ14 Cable and allows you to install 200 fixtures per controller port (depending on controller brand) by simply daisy chaining the fixtures.

SMART CONTROLLER

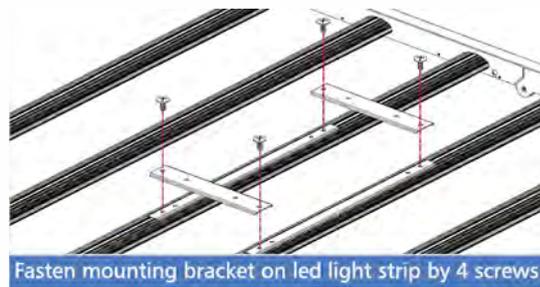


1.6 ASSEMBLY INSTRUCTIONS

Take caution when handling light bars. Ensure the LED array does not come in contact with sharp objects or force that may damage the diodes. Unbox and unfold module and place on flush, stable surface

There are two ways to mount your power supply

WAY 1 Attach power supply to the light bars



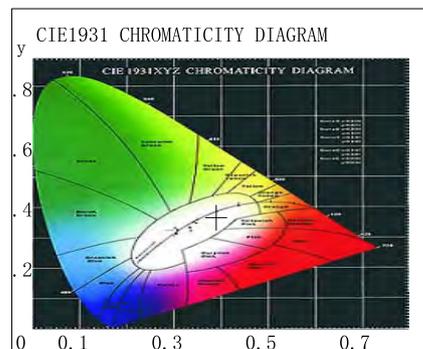
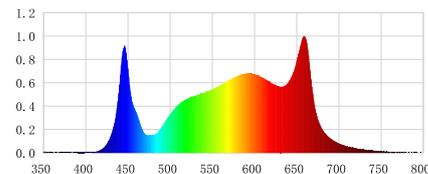
WAY 2 Power supply remote mount to a surface



1.7 SPECTRUM TEST REPORT

Plant Parameters:

Flux(lm): 109906	Qv(lm.s): 109906
Spectral radiance(W/nm): 37.8	Qe(J): 371.8
Flux(W): 363.5	Far-red flux(W): 6.789
Efficiency: 0.5782	Effi-fr: 0.01079
PPE: 2.717	Kfr: 0.06549
Erb_Ratio: 1.745	Flux_b(W): 371.8
Flux_UV(W): 1.551	PPF($\mu\text{mol/s}$): 1956.24
PPF(400-500)($\mu\text{mol/s}$): 301.7	PPF(500-600)($\mu\text{mol/s}$): 687.5
PPF(600-700)($\mu\text{mol/s}$): 733.2	PPF.t(μmol): 1956.24
Photon flux_fr($\mu\text{mol/s}$):41.17	Flux(400-700)(W): 363.5
Flux_ch-A.t(J):62.19	Flux_ch-A(W): 62.19
Flux_ch-B.t(J):75.25	Flux_ch-B(W): 75.25
Flux b.t(J): 78.57	Flux b(W): 78.57
Flux y.t(J): 148	Flux y(W): 148
Flux r.t(J): 137.1	Flux r(W): 137.1



1.8 PAR DISTRIBUTION

GLMF-700-E
8" Mounting Height

775	800	845	895	922	919	917	924	912	794
997	1118	1189	1206	1221	1193	1186	1202	1155	1138
1191	1312	1411	1423	1431	1438	1430	1412	1344	1290
1244	1385	1475	1497	1513	1527	1502	1479	1402	1313
1236	1368	1471	1501	1537	1551	1512	1482	1398	1272
1210	1327	1427	1472	1524	1530	1477	1442	1357	1242
1149	1274	1354	1388	1460	1488	1426	1382	1303	1201
1068	1193	1259	1317	1364	1368	1311	1283	1221	1146
971	1032	1123	1161	1176	1185	1150	1144	1099	1022
785	855	909	954	936	939	927	976	977	989

Front of Tent (open)

Measured in a 4 x 4 Tent with Apogee MQ-620 PAR Meter

GLMF-700-E
12" Mounting Height

917	897	936	926	902	915	917	910	846	836
1104	1093	1127	1150	1128	1119	1114	1088	1031	924
1193	1214	1257	1281	1273	1268	1256	1219	1140	1047
1159	1241	1293	1334	1335	1348	1327	1287	1459	1082
1118	1228	1291	1337	1359	1360	1340	1307	1421	1103
1131	1200	1265	1315	1340	1338	1319	1262	1372	1095
1101	1145	1205	1255	1279	1286	1267	1207	1292	1044
1040	1058	1116	1157	1177	1183	1170	1116	1183	1002
880	929	985	1025	1032	1026	1021	999	1018	874
755	796	861	884	884	879	885	899	786	886

Front of Tent (open)

Measured in a 4 x 4 Tent with Apogee MQ-620 PAR Meter

GLMF-700-E
24" Mounting Height

843	867	892	867	850	861	889	917	853	795
883	907	923	931	935	945	956	956	904	847
902	928	958	981	996	1005	1006	998	947	877
861	957	1002	1035	1056	1053	1059	1043	1000	918
865	964	1005	1044	1064	1070	1065	1048	985	894
835	925	982	1021	1040	1045	1041	1028	975	900
828	887	943	975	988	1004	996	984	948	895
802	831	877	902	913	922	921	914	900	881
721	757	791	923	834	834	842	836	829	886
710	717	721	736	745	749	745	777	809	826

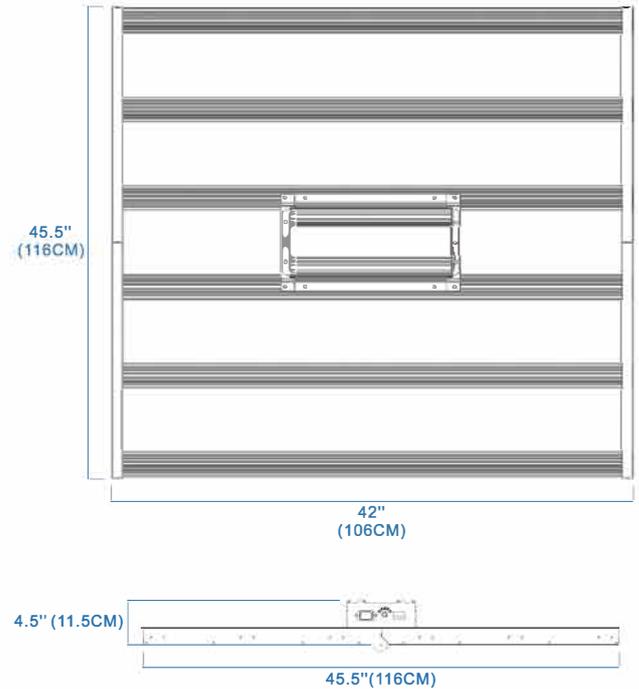
Front of Tent (open)

Measured in a 4 x 4 Tent with Apogee MQ-620 PAR Meter

SPECIFICATIONS

Model	GLMF-700E
Total Power	720W
Efficacy	2.7 $\mu\text{mol}/\text{J}$
PPF	1944 $\mu\text{mol}/\text{s}$
Input Voltage	120-277V
Number of light bars	6
LED Quantity	2220 pcs
Mounting Height	$> 6"$ (15cm) Above Canopy
Thermal Management	Passive
Lifetime	50,000hrs
Power Factor	$> 90\%$
Colour Rendering Index	80ra
Ambient Temperature	$-25\text{--}40^\circ\text{C}$
Storage Environment	$-40\text{X--}85^\circ\text{C}$ RH10%-95%
Chip	LEDSTAR 3030 302H
Fixture Dimensions	L45.5" * W42" * H4.5

DIMENSIONS



MAX AMPERAGE BY VOLTAGE SERVICE

Input power	Amps @120V Amps	Amps @208V Amps	Amps @240V Amps	Amps @277V Amps
720W	7.20A	3.46A	3.00A	2.60A

APPLICATIONS



Multi-Tiers

With a remotely mountable power supply, recommended mounting height of 6"–12" above canopy. Designed for multi-tier cannabis cultivation – from veg to bloom— over a 4'x4' canopy



Grow Room

Provide a high-performance top-lighting solution for commercial horticulture cultivation



Indoor Grow Tent

Provide a full-cycle top-lighting solution for home hobbyists