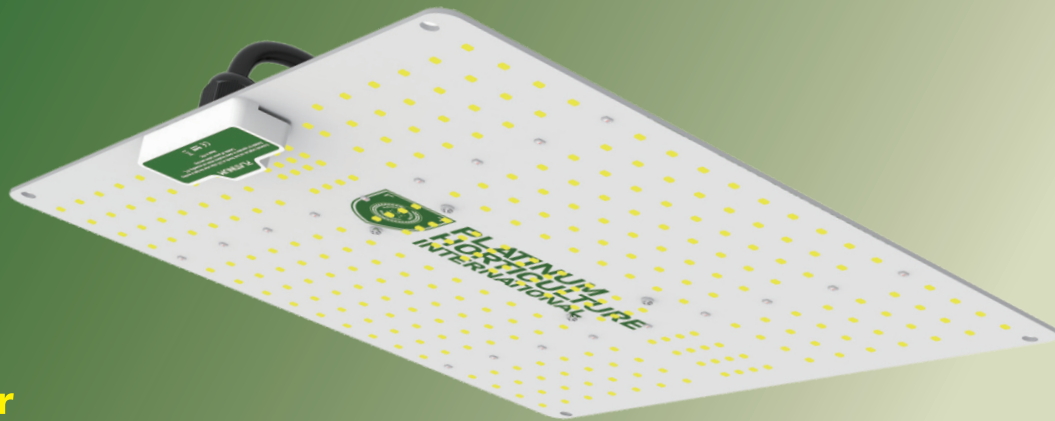


PLATINUM

LED Horticultural Light



Output Power 180W

With a wide-angle footprint
and Perfect Blend Ideal Spectrum,

2.5 $\mu\text{mol}/\text{J}$ Efficacy

Optimized Vegetative Spectrum

LED Horticulture Light
USER MANUAL

SAFETY RECOMMENDATIONS

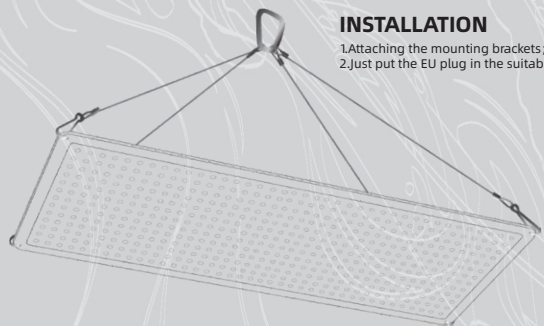
- Please read this manual thoroughly before attempting to install or operate any PLATINUM system.
- After successful installation and configuration of the system, be sure to retain this manual in a safe place for future reference. Safety is a key component to a long lasting and trouble-free installation.
- It is important you read, fully understand, and observe the subsequent safety precautions. If you are not comfortable with the installation of high performance lighting systems, you should seek the services of a qualified installation professional or call us for help.
- NOTICE: The LED are high-performance lighting systems. Do not touch while in operation.
- Connect the system only to the power sources of the appropriate voltage using the AC plug type received. Protect power cables from being pinched, walked on, or otherwise damaged. Be especially careful where the power cable enters the power outlet and the unit. Only connect the system to an electrical outlet or extension cord of appropriate type and rating. Connect the system only to the power sources of the correct voltage using the plug received.
- DO NOT defeat the safety purpose of a grounding or polarized plug by removing ground pins or using unsafe adapters. A polarized plug has two blades—one wider than the other. A grounding plug has a third ground prong in addition to the two main conductors. The wide blade or third grounding prong is provided for your safety. If the provided plug does not fit your outlet, consult an electrician to replace your obsolete outlet. If you replace the power cord, only use one of similar type and equal or greater current rating.

CULTIVATION BEST PRACTICES

Encourages everyone to experiment and pursue their own techniques.

Every crop is different and everyone has different goals. However, our internal research has given us insight into several strategies we would like to share.

- Regularly check your plants' growth and health. LED NATURAL LIGHT systems deliver high levels of PAR, typically more than experienced in nature. Adjustments to H₂O, CO₂, RH, nutrients, and temperature are typically required.
- Mount the fixture at least 6" from the top of your canopy to ensure optimal uniformity and consistent PPFD. The LED Series was designed to provide uniform light dispersion and requires precise deployment.
- Many plants prefer higher temperatures when exposed to high PPFD. Experiment with higher temperatures to achieve higher yields. Canopy temperature and room ambient temperature often vary. For accurate results, test at the canopy level to gauge leaf surface temperature.



INSTALLATION

1. Attaching the mounting brackets;
2. Just put the EU plug in the suitable position.

GENERAL CARE

LED Series systems are passively cooled with zero moving components. They are designed for harsh environments and years of maintenance-free performance. Some basic care will keep your system operating at peak performance cycle-after-cycle.

- Natural convection removes heat away from the heatsink. In order for the system to properly cool itself, at least one inch of space is required between the console and the roof of your grow area. Failure to do so may shorten the fixture's lifespan.
- To achieve the optimal lifespan and performance of your fixtures, routinely check for and remove excess dust, debris, and mineral build up from heatsink and LED array. Cleaning should always be done with the fixture unplugged from its power source using low-pressure compressed air or water to rinse away dirt from light bars.
- Never use a cloth to clean the diode array. Doing so can scratch or compromise the integrity of the silicon seal, or dislodge diodes entirely.
- To limit degradation, avoid touching the diodes with your hands, even in a powered off state.

LED solutions are high-performance lighting systems. Do not touch while in operation. Last and most important, please recycle all packaging material. Future generations will thank you.

Truly Full Spectrum for the Full Plant Lifecycle



Warm White LED
promotes plant germination.

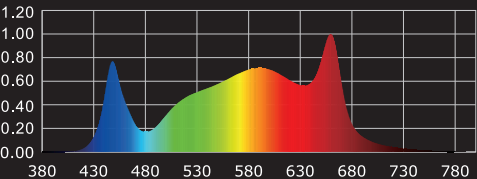


Cold White LED
Boosts Plant Flowering



RED LED
Promotes Plant Flower

Full-spectrum



Maximize plant growth and quality

This powerful, full-spectrum light source is intended for full-term plant growth - from the vegetative stages to higher-light-requiring bloom and finishing stages.

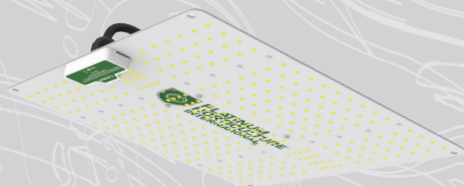


180W

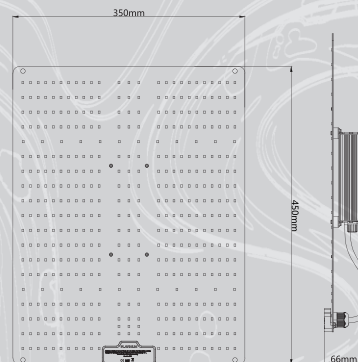
Quantum Board

TECHNICAL SPECS

Max.Power:	PLATINUM Quantum Board 180W±3%
Nominal Voltage:	200V-277V
Nominal Current:	0.64A-0.9A
Power Factor:	>0.95 @180W
Input Frequency:	50-60Hz
Plug Type:	EU E & F
Efficacy:	2.5umol/J
Output:	450PPF
Photon flux:	19962 lm
Color Temperature:	3400K
Length:	450mm
Width:	350mm
Height:	66mm
Weight:	3.1kg
IP Protection:	IP65
Diodes:	SAMSUNG
Diodes quantity:	453pcs
Beam Angle:	180°
Dimming:	20% 40% 60% 80% 100%
Waterproof Rating:	IP65
Temp. Range	~-30°C to 30°C
Operation Humidity:	10% to 95% rh
Certifications:	CE RoHS
Warranty Time:	3 years



FIXTURE DIMENSIONS



Par Distribution(4x4ft Coverage)

Height of 12"/30CM PAR Distribution

80	91	103	113	119	127	123	122	111	98	90	80	66
97	113	126	150	163	172	165	161	144	125	106	91	74
107	133	163	203	235	257	250	227	196	161	129	106	86
123	157	208	290	360	402	399	365	291	215	153	119	91
140	195	280	401	544	632	639	538	411	278	180	136	101
159	226	343	511	723	846	860	743	541	358	222	145	108
160	246	373	587	848	1046	1024	886	627	381	235	160	113
167	236	373	600	871	1023	1029	889	636	407	246	160	112
158	222	332	537	759	899	907	783	559	361	226	155	112
133	191	272	409	601	700	681	590	447	305	200	138	104
123	153	212	300	381	450	430	392	305	217	159	115	94
100	120	152	197	239	280	285	240	205	151	120	94	76
91	106	128	149	187	200	198	180	151	132	109	85	70

Height of 24"/60CM PAR Distribution

113	127	135	142	151	157	153	152	149	140	133	120	107
125	148	160	175	185	191	189	182	184	173	159	147	122
139	162	180	206	218	233	232	226	215	195	178	157	134
147	180	206	235	256	277	281	270	253	226	200	171	141
166	200	233	262	295	320	327	316	289	258	222	186	145
167	208	241	285	320	349	359	347	315	279	235	199	158
167	212	246	295	340	371	383	370	339	293	251	204	167
164	212	249	295	336	365	376	365	332	289	243	208	170
165	200	239	274	313	340	348	339	310	268	229	192	154
150	188	216	247	277	306	313	300	277	244	211	180	152
136	165	187	215	234	253	263	265	239	210	182	159	134
122	140	157	175	199	207	219	195	188	173	156	145	133
114	127	139	150	169	179	177	166	159	150	137	132	115

Height of 36"/90CM PAR Distribution

109	125	131	133	134	136	138	135	134	129	128	117	104
123	139	148	158	159	164	163	160	159	152	145	141	120
135	150	161	170	177	180	182	179	173	167	159	148	129
136	159	174	184	191	196	198	194	190	181	170	158	136
145	171	183	195	205	211	213	210	202	192	177	162	144
146	171	188	192	204	210	223	220	211	199	181	165	144
146	173	190	207	219	227	229	226	219	202	187	166	144
144	169	187	205	218	225	226	222	213	200	183	165	140
142	167	182	196	208	217	219	214	206	193	178	162	138
135	160	172	184	200	203	205	204	196	184	171	155	135
125	147	160	171	181	180	188	182	174	167	158	146	133
123	135	145	149	157	165	168	169	158	149	140	132	125
111	121	131	139	141	147	150	148	144	136	130	121	112

WARNING

Risk of electrical shock.
To reduce the possibility
of serious injury,
always take the proper
precautions and unplug
the fixture before moving
or cleaning.

WARNING

In the event that the module
or power supply enclosure
becomes submersed, first
disengage the circuit
breaker, then unplug
submersed components
before proceeding to
remove from water.

CAUTION

To prevent eye damage,
avoid looking directly at
the unshielded LEDs.

CAUTION

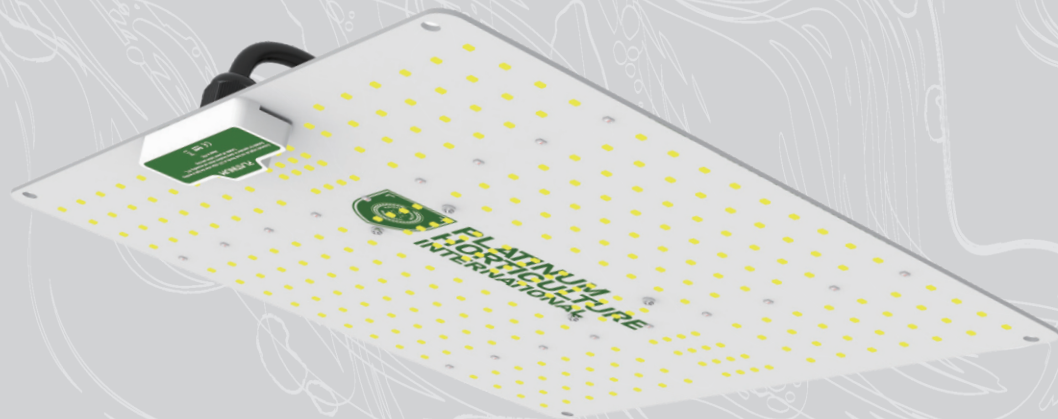
LED and heat sink
surfaces may be hot.
Allow sufficient cooling
time before handling.

CAUTION

To reduce the risk of
overheating or fire,
never place operating
fixtures face down on
a flush surface. Always
allow for adequate
ventilation of fixtures
and power supplies.

PLATINUM

LED Horticultural Light



180W | Quantum Board

