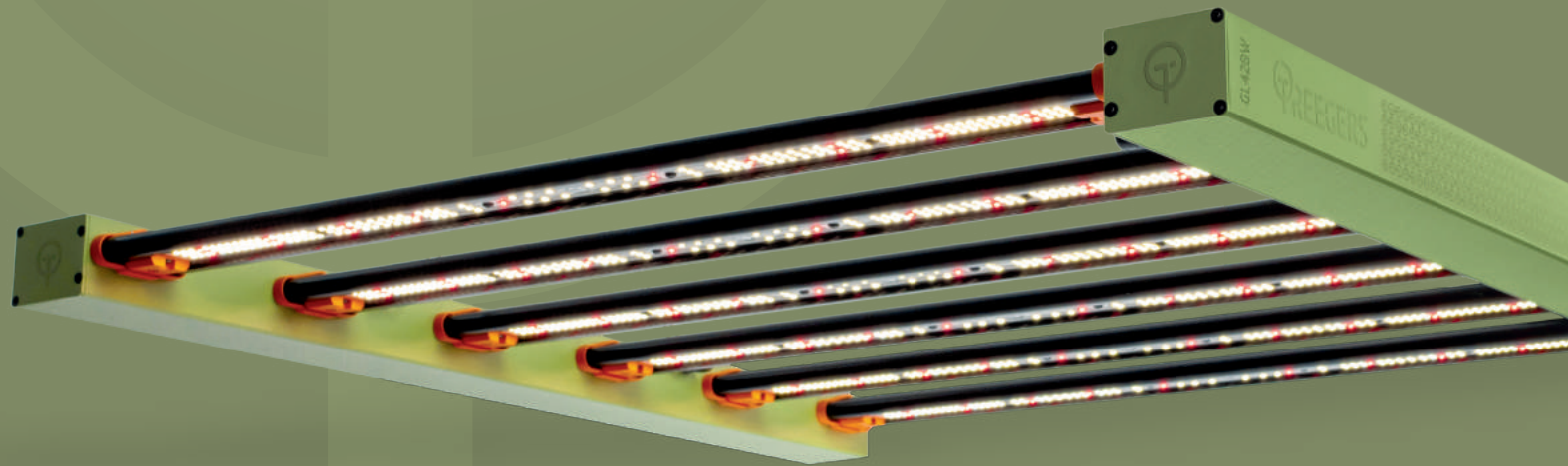


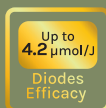
# TREEGERS GL420W LED FIXTURE

Maximize your yields with this unique LED grow light. Providing industry best uniformity with coverage of up to 1.2 x 1.2m. With six LED bars and an outstanding compact plug & play design, our **GL420W** delivers optimal light distribution and light penetration for your crops.

## PERFORMANCE DATA



TREEGERS GL420W LED FIXTURE - PERFORMANCE DATA



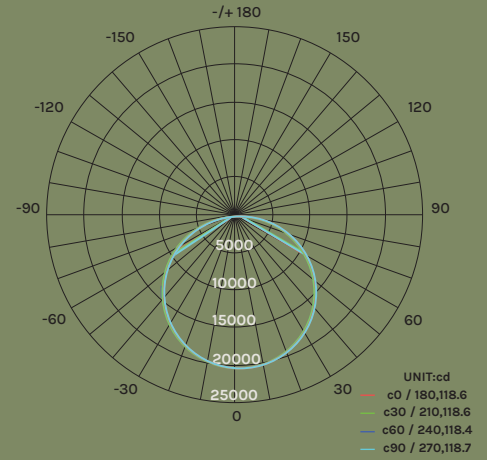
[treegers.com](http://treegers.com)

## SPECIFICATIONS:

**Product Code:** TGL0002  
**EAN/GTIN:** 9309001188047  
**Power Consumption:** 420W ±5%  
**Light Output PPF:** 1155 µmol/s  
**Fixture Efficacy:** 2.8 µmol/J  
**Coverage Area:** Minimum 1.0x1.0m up to Maximum 1.2x1.2 m  
**Application:** Grow Tent, Grow Room, Multi-layer  
**Thermal Management:** Passive Cooling  
**Input Voltage:** 120-277V, 50/60 Hz  
**Max. Ambient Temperature/Humidity:** 45°C / 90%  
**CCT:** 4000K  
**CRI:** +85  
**Power Factor:** >0.95  
**THD:** 20% max  
**Light Source:** Ledestar 4000K & 5000K White 3030; Ledestar 660nm Red 3535 1.24  
**No of LED Bars:** 6  
**No of Diodes Total:** White 1080; Red 96  
**No of Diodes per LED Bar:** White 180; Red 16

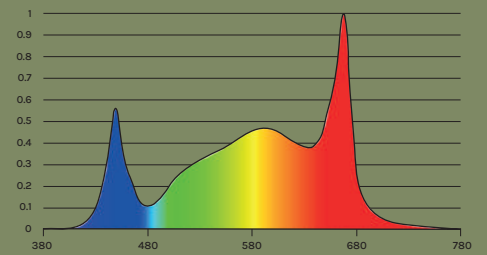
**Diodes Efficacy:** White 3030 3.25 µmol/J; Red 3535 4.2µmol/J  
**Driver:** Inventronics  
**Ingress Protection:** IP66  
**Lifetime LED Bars:** +60 000Hrs  
**Lifetime Driver:** +120 000Hrs under 80% loading  
**Dimming:** 0-10-20-30-40-50-60-70-80-90-100% (w/ Treegers Precise T Dimmer 0-10V)  
**External Control:** w/ Treegers Growcast or any Universal Controller  
**BTUs/h:** 1433  
**Fixture Dimensions:** 700x600x41 mm  
**Fixture Weight:** 5.26 Kg  
**Carton Dimensions:** 755x97x735 mm  
**Gross Weight:** 6.68 Kg  
**Certifications:** CE, UKCA, RCM, RoHS, SAA  
**Warranty:** 3 Years  
**Light Distribution:** 120°

## AVERAGE BEAM ANGLE (50%) : 118.6 DEG



## SQD SPECTRUM GRAPH:

## Full-Spectrum Fusion by TREEGERS



Full-Spectrum Fusion, used on our GL series of LEDs, is well-balanced and a perfect choice for Full-Cycle growing. Its total CCT and wavelength ratios also makes it an optimal choice for Propagation, Clones, Mothers and Vegetative stages.

## GL420W - MAXIMUM INPUT CURRENT

Input Volt	DIMMING	INPUT POWER (W)	INPUT CURRENT (A)
120VAC	100%	438.5W	3.86
230VAC	100%	420.2W	2.17
240VAC	100%	419.5W	2.09
277VAC	100%	418.8W	1.84

## TESTING PARAMETERS

**Tested Product:** Treegers GL420W LED Fixture  
**Distance from Canopy:** 30cm, 40cm, 50cm, 80cm, 100cm  
**Area:** 1.0x1.0m  
**Points:** 64 (8x8)  
**Testing Equipment:** Integrated 2m Sphere, Apogee & Treegers Quantum PAR Meters

**Reflection:** 0%  
**Fixture Power Intensity:** 100%  
**Fixture orientation:**



## WHAT'S IN THE BOX?

- 1 x GL420W LED Fixture (w/ 6 LED Bars, Integrated Driver & Frame)
- 1 x Power Cable (w/ 1.8 m length, plug & Jnicon connector)
- 2 x Stainless Cable Hangers (D2 x 105mm)
- 1 x User Guide

## PPFD MAPS PER CANOPY TO LIGHT DISTANCE

### PPFD Map at 30cm

237	352	457	517	517	455	350	239
386	643	838	944	943	834	639	387
547	822	1218	1375	1384	1211	914	549
622	1038	1365	1532	1519	1376	1044	628
628	1033	1365	1547	1536	1372	1039	617
543	817	1221	1388	1368	1224	926	549
388	640	843	936	947	833	649	382
237	351	461	522	520	453	349	237

Recommended Coverage: 1.0x1.0m  
 Uniformity Ratio: 0.29 at 1.0x1.0m, 0.58 at 0.8x0.8m  
 Canopy Average PPFD: 812.53 µmol/s/m<sup>2</sup>

### PPFD Map at 40cm

267	375	462	514	518	461	377	270
388	669	714	796	800	715	573	389
506	750	948	1060	1054	957	756	501
569	844	1070	1197	1201	1078	850	569
569	839	1078	1202	1198	1069	841	572
503	747	953	1063	1063	955	744	509
391	565	719	796	800	710	568	388
269	378	465	509	514	462	376	267

Recommended Coverage: 1.0x1.0m  
 Uniformity Ratio: 0.39  
 Canopy Average PPFD: 690.17 µmol/s/m<sup>2</sup>

### PPFD Map at 50cm

277	361	433	472	470	433	361	275
370	494	602	662	656	602	499	367
459	619	758	844	840	764	614	463
505	690	844	938	929	843	688	503
501	688	846	936	944	845	691	506
456	620	756	839	852	756	621	463
372	491	606	656	660	603	491	367
274	360	434	473	476	430	362	278

Recommended Coverage: 1.0x1.0m  
 Uniformity Ratio: 0.47  
 Canopy Average PPFD: 582.58 µmol/s/m<sup>2</sup>

### PPFD Map at 80cm

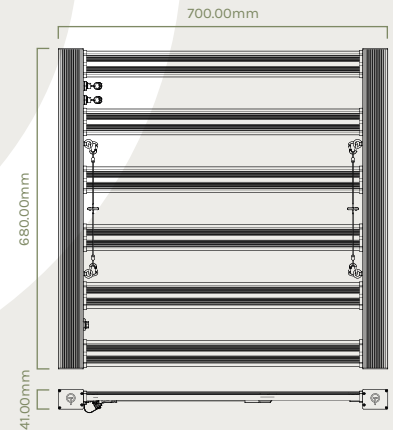
235	276	308	327	331	310	277	234
277	329	369	393	394	367	325	279
311	371	418	447	444	417	368	311
333	395	447	477	478	450	393	329
332	398	447	473	473	448	391	336
314	374	421	448	449	417	374	309
274	332	365	396	390	371	331	274
235	279	310	327	325	306	277	233

Recommended Coverage: 1.0x1.0m  
 Uniformity Ratio: 0.65  
 Canopy Average PPFD: 357.02 µmol/s/m<sup>2</sup>

### PPFD Map at 100cm

198	222	240	252	253	242	220	198
222	250	272	297	285	273	248	220
241	274	299	315	313	301	275	240
253	288	314	331	331	314	287	255
254	287	317	332	332	315	285	253
243	273	299	318	317	299	276	242
224	248	270	286	287	273	248	222
197	221	238	252	252	242	221	197

Recommended Coverage: 1.0x1.0m  
 Uniformity Ratio: 0.74  
 Canopy Average PPFD: 266.14 µmol/s/m<sup>2</sup>



TACTICAL GROW GEAR

For more please visit [treegers.com](http://treegers.com)  
 or Contact us at [support@treegers.com](mailto:support@treegers.com)