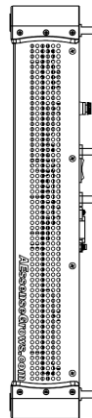
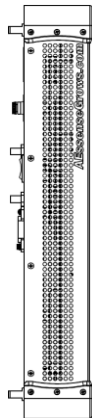
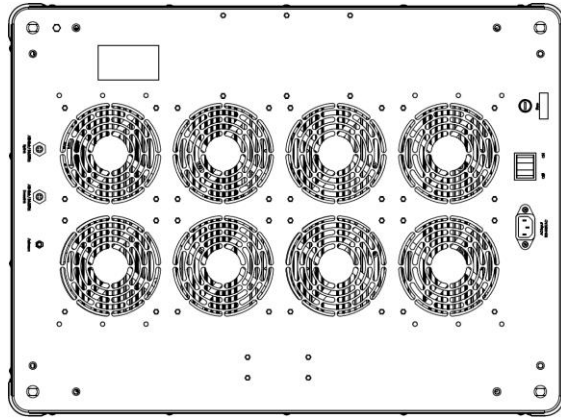
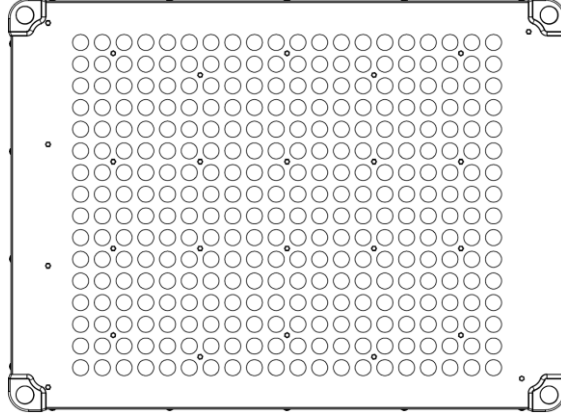




Apex

Grow Light, 100-240V, 500W

Data Sheet

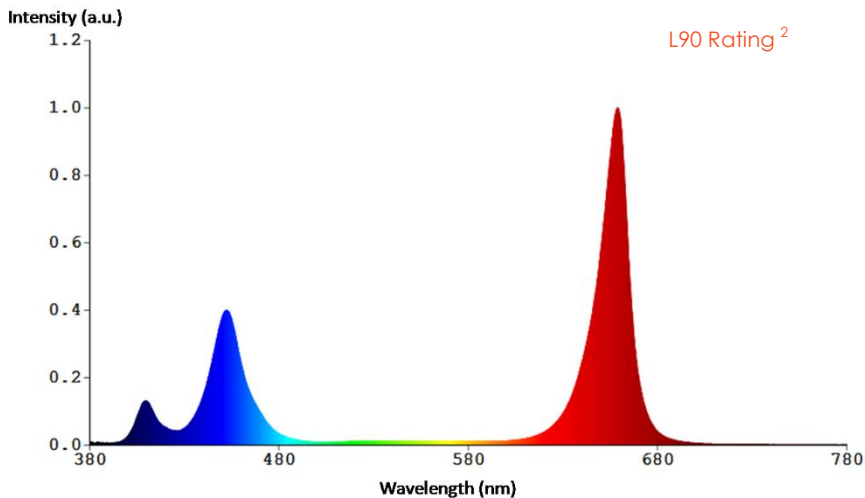


LED002 Specifications

	Min	Max
Input Voltage	100 V _{AC}	240 V _{AC}
Input Frequency	50 Hz	60 Hz
AC Power Draw	–	500 W
Heat Output	–	1,700 BTU/h
Operating Temperature	0 °C (32 °F)	40 °C (104 °F)
Storage Temperature	-25 °C (-13 °F)	55 °C (131 °F)
Turn-on Delay Time	–	7 s

Ingress Protection ¹	IP54
Power Factor	0.99
Average PPFD at 20" ^{2, 4, 6}	323 μmol/s/m ²
Average PPFD at 28" ^{2, 5, 6}	261 μmol/s/m ²
Average PPFD at 20" ^{2, 4, 7}	710 μmol/s/m ²
Average PPFD at 12" ^{2, 3, 8}	1,653 μmol/s/m ²
Uniformity (CV) at 12" ^{2, 8, 9}	0.3
Uniformity (U) at 12" ^{2, 8, 10}	0.37
White LED Count	20
Red LED Count	220
Blue LED Count	60
UV LED Count	20
Dimensions (L x W x H)	635 mm x 508 mm x 76 mm (25" x 20" x 3")
Weight	12.3 kg (27.1 lbs)
L70 Rating ²	80,000 hrs
L90 Rating ²	43,000 hrs

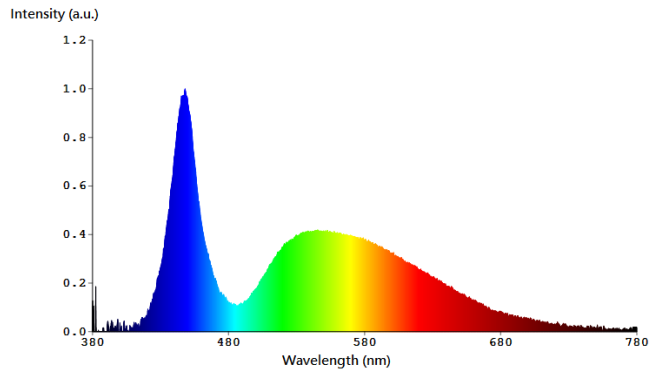
Spectrum ²



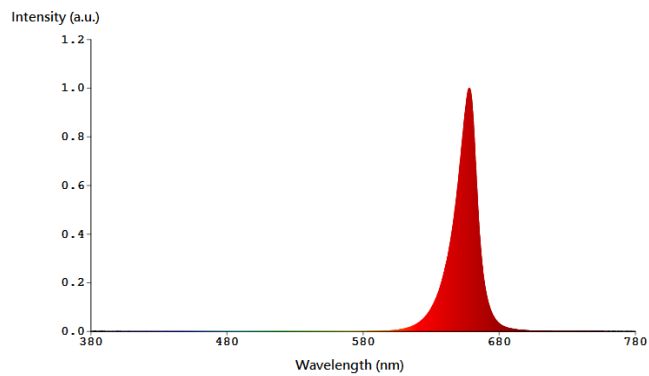
1. Certification in progress
2. At 100% light intensity
3. Average Photosynthetically Active Photon Flux Density (PPFD) over 40"x50" grow tray at 12" (30 cm) fixture height (top lighting, 100% intensity, single tray, no adjacent grow lights, no reflective walls)
4. Average Photosynthetically Active Photon Flux Density (PPFD) over 40"x50" grow tray at 20" (50 cm) fixture height (top lighting, 100% intensity, single tray, no adjacent grow lights, no reflective walls)
5. Average Photosynthetically Active Photon Flux Density (PPFD) over 40"x50" grow tray at 28" (70 cm) fixture height (top lighting, 100% intensity, single tray, no adjacent grow lights, no reflective walls)
6. 1 fixture installed over grow tray
7. 2 fixtures installed over the grow tray
8. 4 fixtures installed over the growth tray
9. Coefficient of Variation over a 40"x50" grow tray at 6" fixture height (top lighting, 100% intensity, single tray, no adjacent grow lights, no reflective walls)
10. Uniformity expressed as the ratio of the lowest PPFD value and the average over a 40"x50" grow tray at 12" fixture height (top lighting, 100% intensity, single tray, no adjacent grow lights, no reflective walls)

Channel Wavelength Distribution

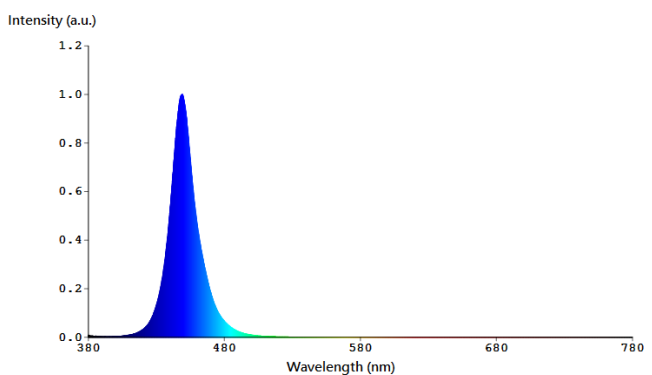
White channel



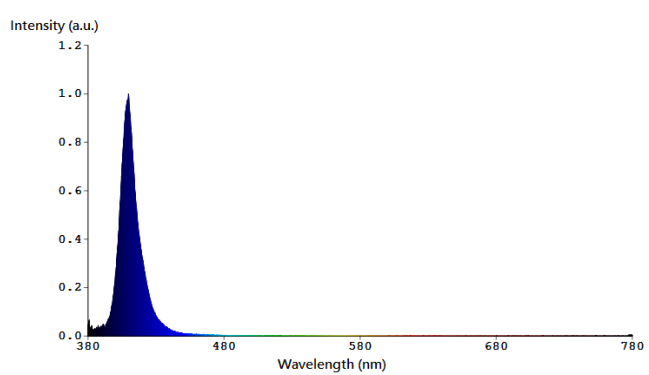
Red channel



Blue channel



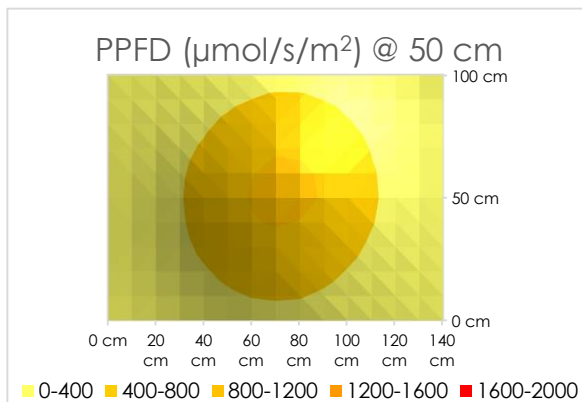
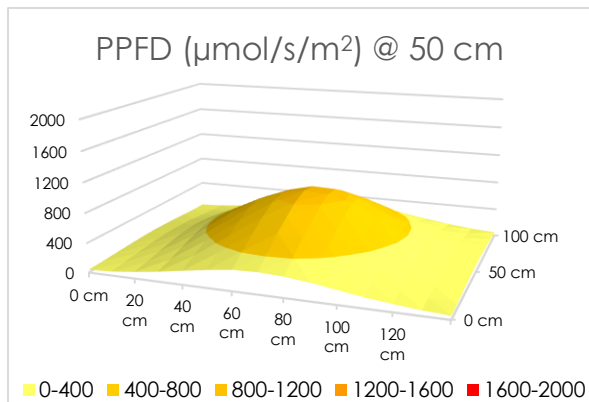
UV channel



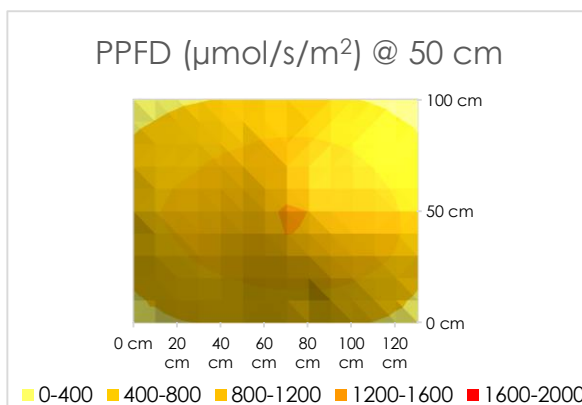
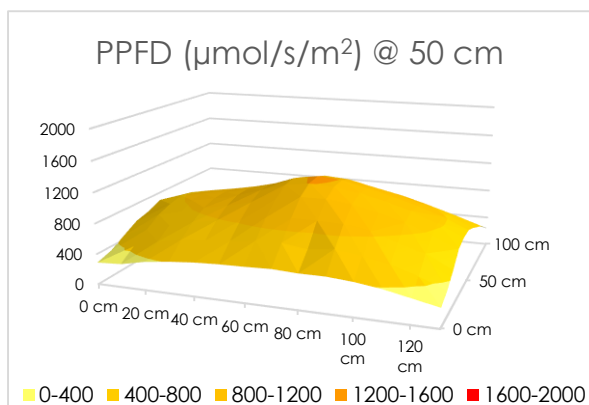
Photon Flux Distribution ¹

Measured at maximum LED power (100% light intensity) with fixture(s) centrally hanging at pre-determined height above a 40"x50" grow area.

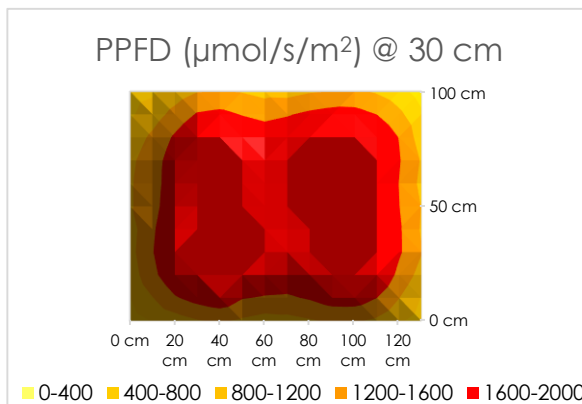
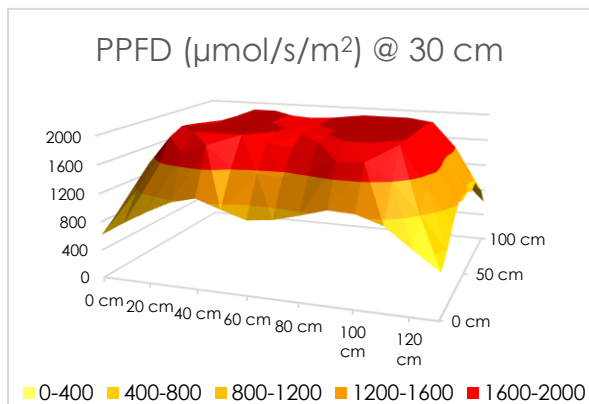
Single configuration



Dual configuration



Quad configuration



1. Average Photosynthetically Active Photon Flux Density (PPFD) over 40"x50" grow tray (top lighting, 100% intensity, single tray, no adjacent grow lights, no reflective walls)

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