ÆssenseGrows

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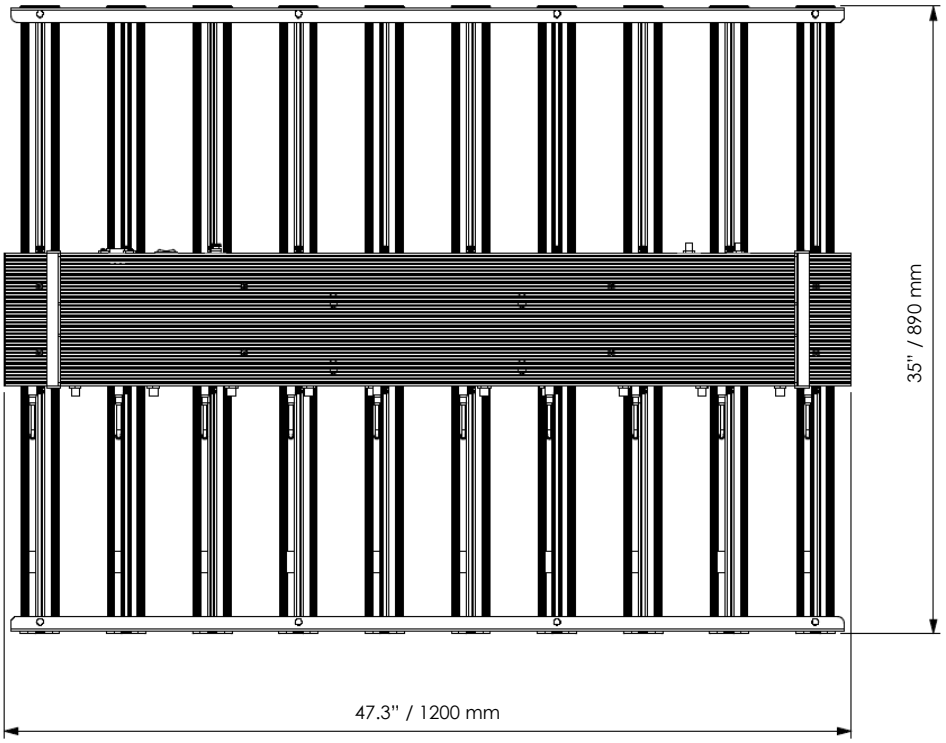
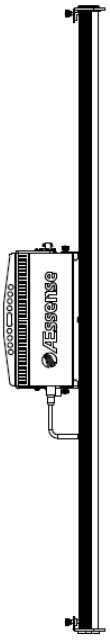
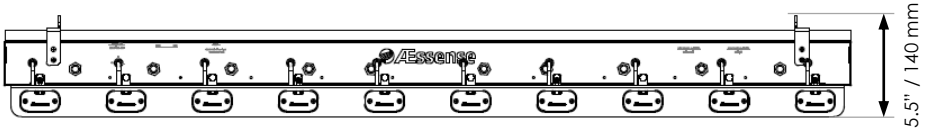
Grow Light, 90-305V, 580W

Data Sheet


35" / 890 mm
47.3" / 1200 mm



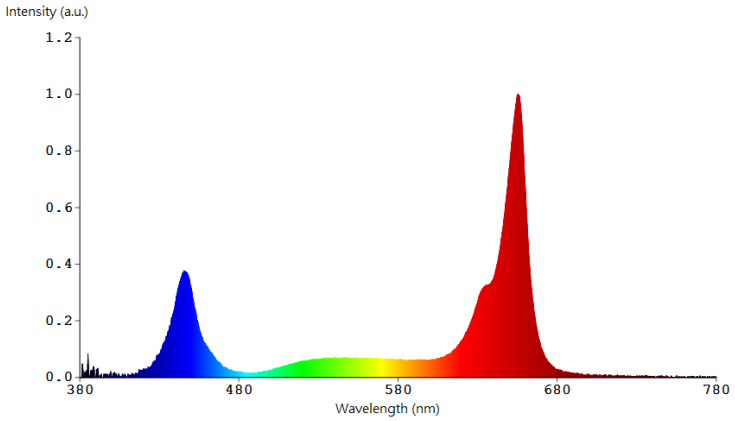

5.5" / 140 mm

LBR001 Specifications

	Min	Max
Input Voltage	90 V_{AC}	305 V_{AC}
Input Frequency	47 Hz	63 Hz
AC Power Draw	–	580 W
Heat Output	–	1,980 BTU/h
Operating Temperature	-20 °C (-4 °F)	40 °C (104 °F)
Storage Temperature	-40 °C (-40 °F)	60 °C (140 °F)
Turn-on Delay Time	6 s	8 s
Power Factor	0.93	–
Dimming	0% / 20%	100%

PPF [1]	959 µmol/s
Average PPFD at 15 cm [1, 2]	600 µmol/s/m²
Average PPFD at 30 cm [1, 3]	530 µmol/s/m²
Uniformity (CV) at 15 cm [1, 4]	0.48
Uniformity (U) at 15 cm [1, 5]	0.05
Comm. Interface	AES Link [6], DMX512
Dimensions (L x W x H)	1194 mm x 890 mm x 132 mm (47" x 35" x 5.2")
Weight	21.1 kg (46.5 lbs)
L70 Rating [7]	100,000 hrs
L90 Rating [8]	50,000 hrs

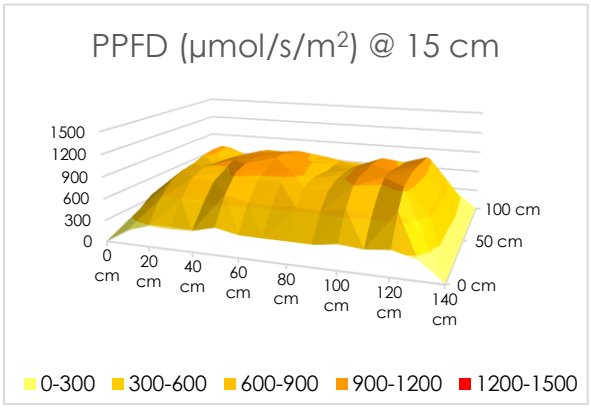
Spectrum

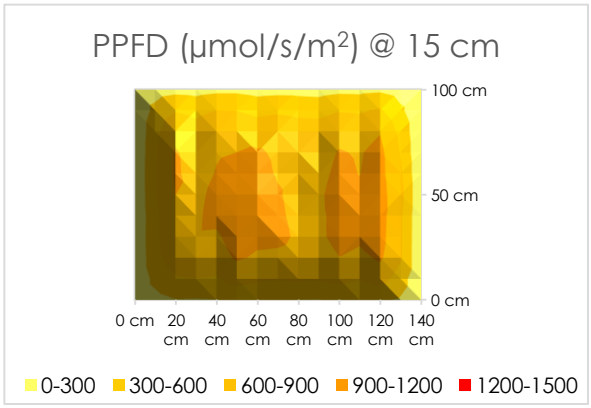


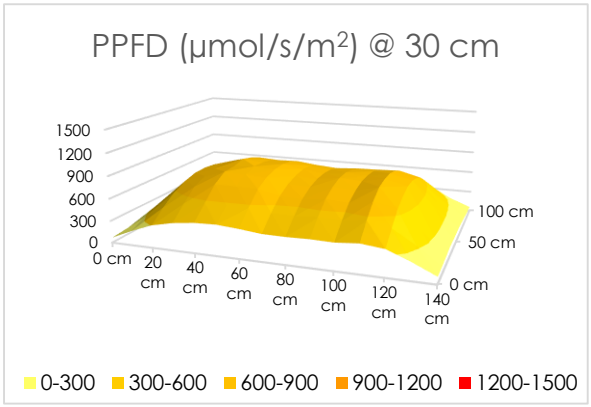
1. At 100% light intensity
2. Average Photosynthetically Active Photon Flux Density (PPFD) over a 40"x50" grow tray at 15 cm (6") fixture height (measured in isolation, 100% intensity, no adjacent grow lights, no reflective walls)
3. Average Photosynthetically Active Photon Flux Density (PPFD) over a 40"x50" grow tray at 30 cm (12") fixture height (measured in isolation, 100% intensity, no adjacent grow lights, no reflective walls)
4. Coefficient of Variation over a 40"x50" grow tray at 15 cm (6") fixture height (measured in isolation, 100% intensity, no adjacent grow lights, no reflective walls)
5. Uniformity expressed as the ratio of the lowest PPFD value and the average over a 40"x50" grow tray at 15 cm (6") fixture height (measured in isolation, 100% intensity, no adjacent grow lights, no reflective walls)
6. Wired communication protocol used in the AEtrium System
7. Hours of normal operation before 10% degradation in maximum light intensity
8. Hours of normal operation before 30% degradation in maximum light intensity

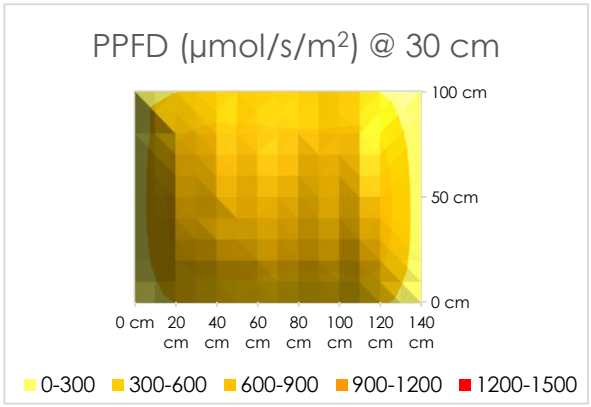
Photon Flux Distribution [1]

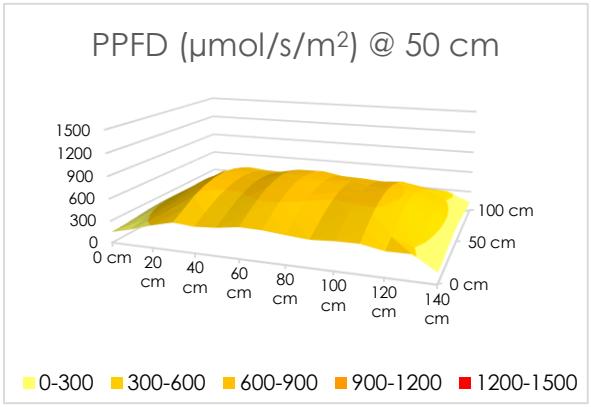
Measured in isolation at 100% light intensity with fixture centrally hanging at pre-determined height above a 40"x50" grow area.

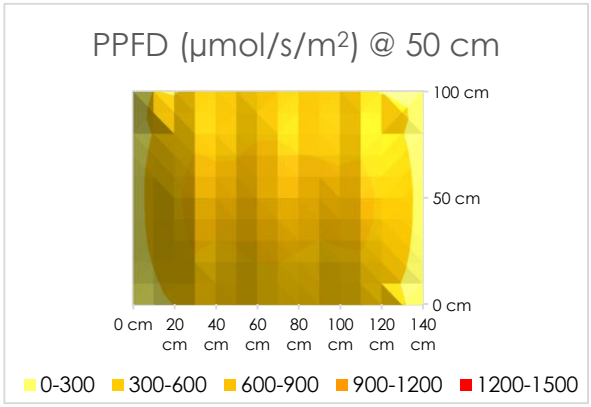












1. Average Photosynthetically Active Photon Flux Density (PPFD)

L03-A0001-01: LBR002 for the US and Canada

- Plug type: NEMA 5-15P and NEMA 6-15P
- 120V/60Hz and 208V/60Hz
- UL certified

L03-A0002-01: LBR001 for China and Australia

- Plug type: Type I
- 230V/50Hz

L03-A0003-01: LBR002 for the EU

- Plug type: CEE 7/7
- 230V/50Hz
- CE certified

L03-A0004-01: LBR002 for Switzerland

- Plug type: Type J
- 230V/50Hz
- CE certified

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