



ZELNA

Efficiency, quality and longevity make the AMTEK family of luminaires an integral component of your optimized lighting plan.

FEATURES

- Versatile and durable
- Easy to install and maintain
- Range of light spectrum emitted covers absorption peaks of all major photosensitive substances
- Extremely energy-efficient
- Dimmable lighting simulates sunrise/sunset



APPLICATION

Agricultural lighting, or “grow lights”, is widely used in various types of greenhouses, as well as in indoor controlled environments with no access to natural daylight. These lights either complement or replace natural sunlight, allowing the cultivation of a wide array of crops destined for food, medicine, and decoration, among other uses.

Naturally, the quality of the lighting used is crucial for the quality of the crop itself; yield and pigmentation, as well as growth, flowering, and fruiting rates are affected by the kind of light the plants are exposed to.

Enter **AMTEK’s ZELNA**. Our superior LED light series substitutes other traditional lighting products like HID lighting, covering more efficiently the complex full spectrum of light typically used by plants, including UV-A, UVA-B, and infrared.

For your convenience, **ZELNA** is available in a straight LED bar structure, as well as a folding LED bar structure.



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AMTEK GROUP, Suite #200, 550 Sherbrooke West, Montréal, Québec, Canada, H3A 1B9
Tel: +1(514) 819-1653 | www.amtekgroup.com

ZELNA *Straight Bar Model*

SPECIFICATIONS

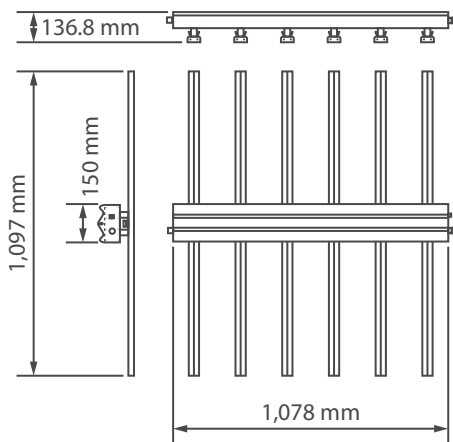
ZELNA STRAIGHT BAR: ALL MODELS (640-120 / 800-120 / 1200-120)

POWER
VOLTAGE
FREQUENCY
POWER FACTOR
LED BRAND
NO. OF LEDS
VISION ANGLE
LED PCB PROTECTION

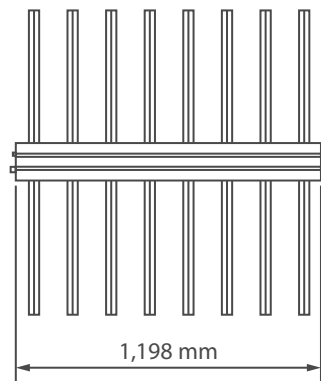
640 W / 800 W / 1200 W
100 / 277 VAC
50/60 Hz
> 0.95
Osram - Samsung
2,016 / 2,944 / 4,416
120°
Glue barrier: Allows for 96% light transmittance, improving watertightness and dust protection

No. OF LED BARS
GROW LIGHT PPF
GROW LIGHT PPE
OUTPUT WAVELENGTH
DIMMABLE
OPERATING TEMP.
THERMAL MGMT.
IP GRADE
LIFETIME
HOUSING MATERIAL
CABLE W/PLUG
MOUNTING HEIGHT
NET WEIGHT
WARRANTY
CERTIFICATION

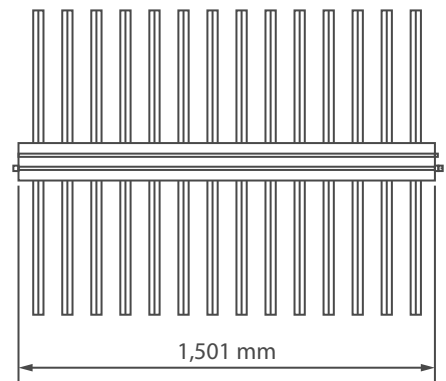
6 / 8 / 12
1,800 (μol/J) / 2,240 (μol/J) / 3,360 (μol/J)
2.8 (μol/J)
660 nm + 730 nm
0-10 V
-20°C to +35°C
Passive
IP 65
50,000 hrs.
Aluminum 6063
0.3 m.
Above Canopy ≥ 152 mm.
9.45 kg. / 12.22 kg. / 18.24 kg.
5 years
ETL



640 W
DIMENSIONS



800 W
DIMENSIONS



1200 W
DIMENSIONS



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ZELNA *Folded Model*

SPECIFICATIONS

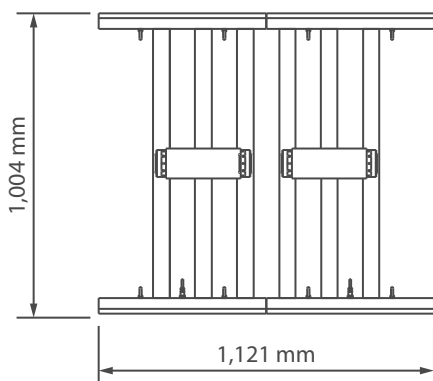
ZELNA FOLDED BAR: ALL MODELS (600-120 / 800-120 / 1200-120)

POWER
VOLTAGE
FREQUENCY
POWER FACTOR
LED BRAND
NO. OF LEDS
VISION ANGLE
LED PCB PROTECTION

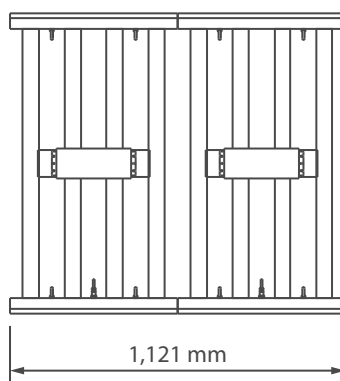
600 W / 800 W / 1200 W
100 / 277 VAC
50/60 Hz
> 0.95
Osram - Samsung
1,026 / 1,368 / 2,052
180°
Glue barrier: Allows for 96% light transmittance, improving watertightness and dust protection

No. OF LED BARS
GROW LIGHT PPF
GROW LIGHT PPE
OUTPUT WAVELENGTH
DIMMABLE
OPERATING TEMP.
THERMAL MGMT.
IP GRADE
LIFETIME
HOUSING MATERIAL
CABLE W/PLUG
MOUNTING HEIGHT
NET WEIGHT
WARRANTY
CERTIFICATION

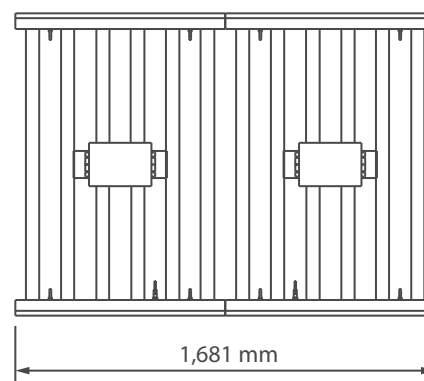
6 / 4 / 6
1,500 (μol/J) / 2,000 (μol/J) / 3,000 (μol/J)
2.8 (μol/J)
400 - 850 nm
0-10 V
-20°C to +35°C
Passive
IP 65
50,000 hrs.
Aluminum + Silicone Coat
2 m.
Above Canopy ≥ 152 mm.
5.9 kg.
5 years
ETL



600 W
DIMENSIONS



800 W
DIMENSIONS



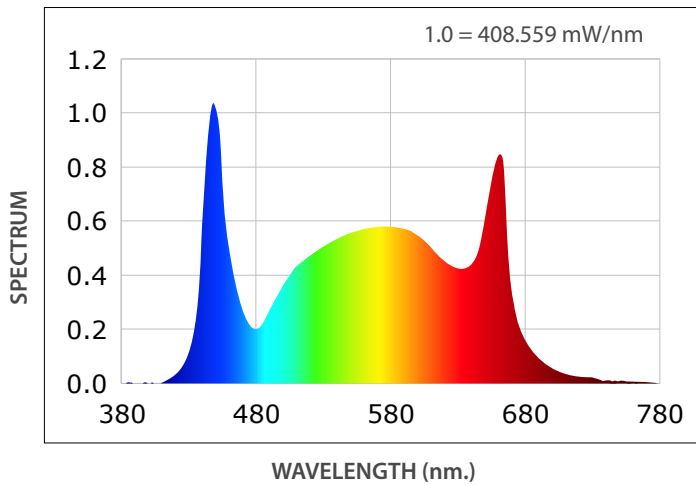
1200 W
DIMENSIONS



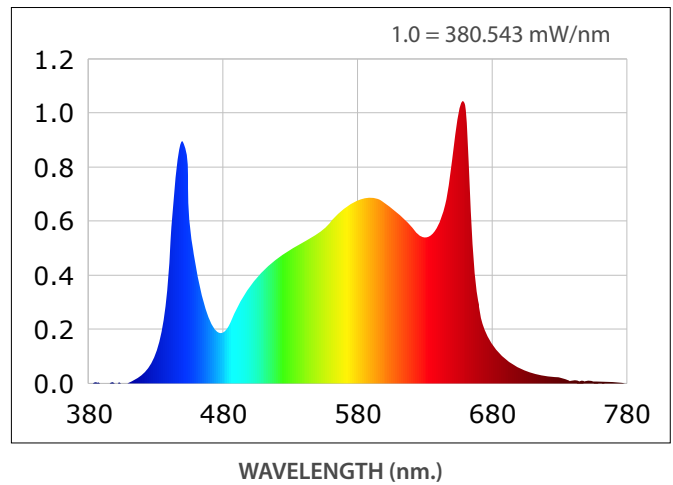
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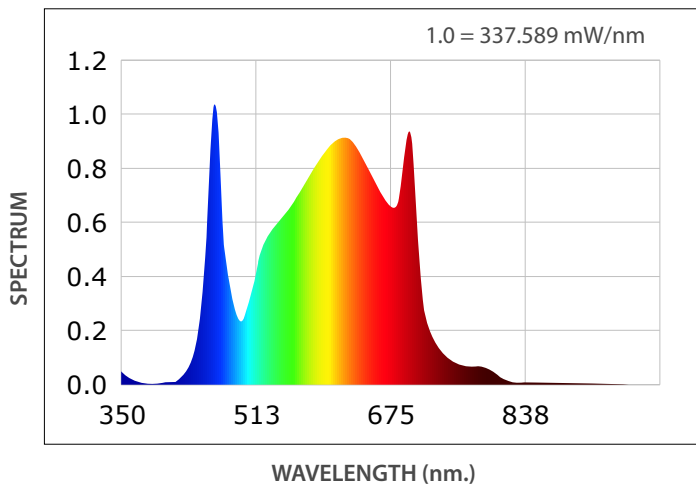
ZELNA *Spectrum Data*



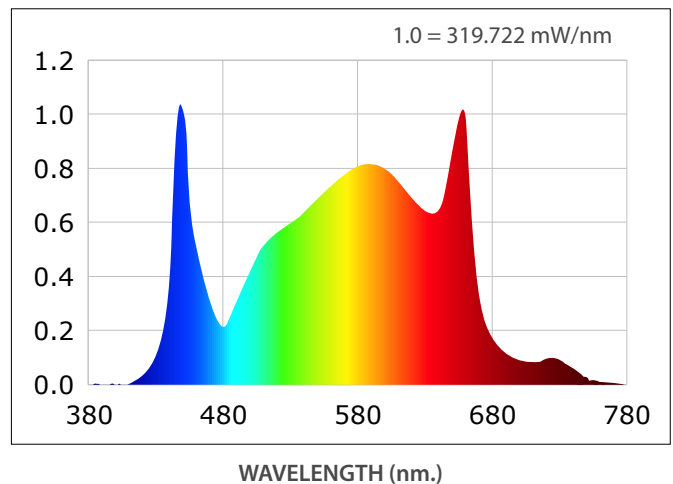
INDOOR



GREENHOUSE



INDOOR + 730



GREENHOUSE + 730

The graphs show the **AMTEK ZELNA's** full-spectrum coverage (385 nm. to 750 nm.). **ZELNA** features high efficiency LEDs with a proprietary phosphor coating to achieve an 80%-to-90% match to the McCree curve, with extra far-red (IR) light to maximize photosynthesis.

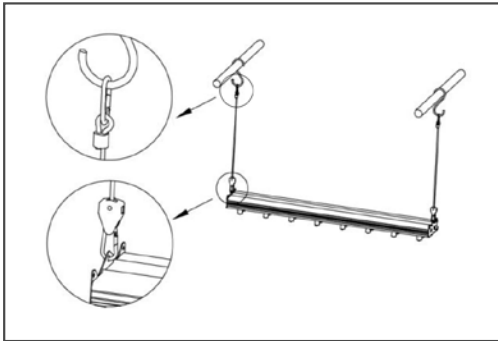


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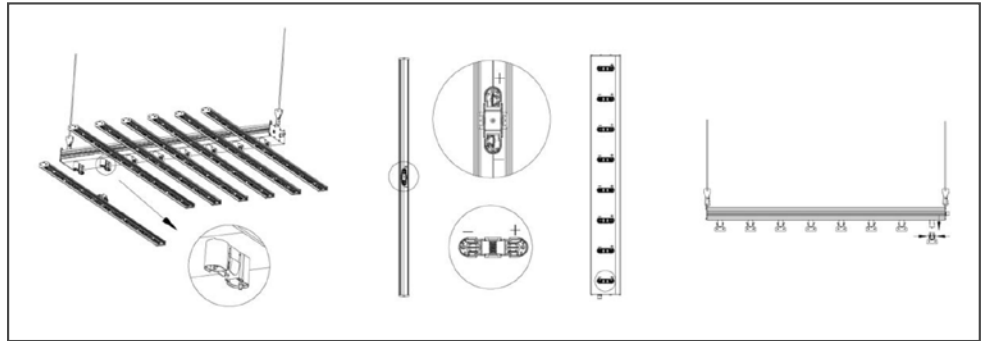
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ZELNA *Installation Manual*

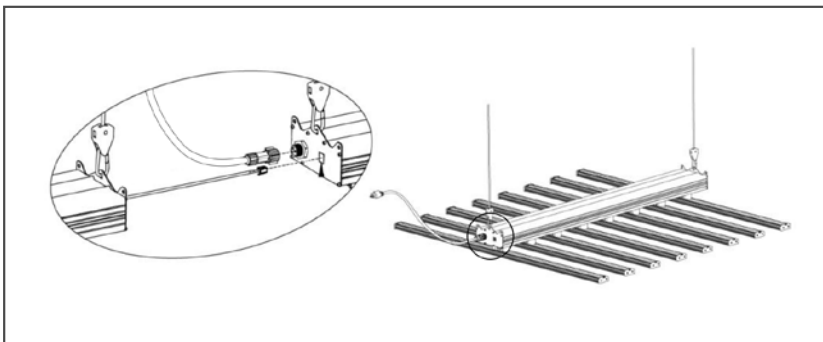
ZELNA STRAIGHT BAR LED LAMP



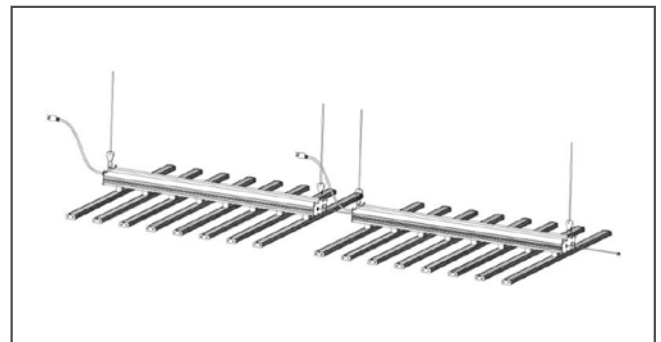
1. Attach the cables to the beam or ceiling.
Hang the ballast.



2. Plug (or unplug, if replacing) the LED bars onto the ballast.

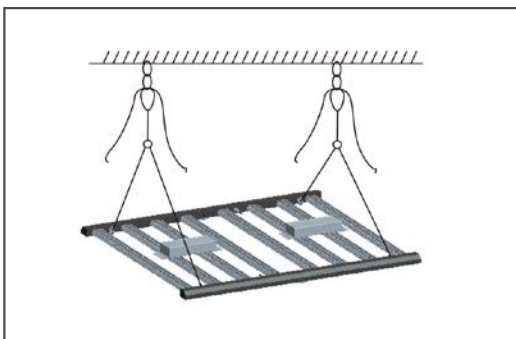


3. Connect the dimmer cables between lamps. Connect the power cord to each lamp.

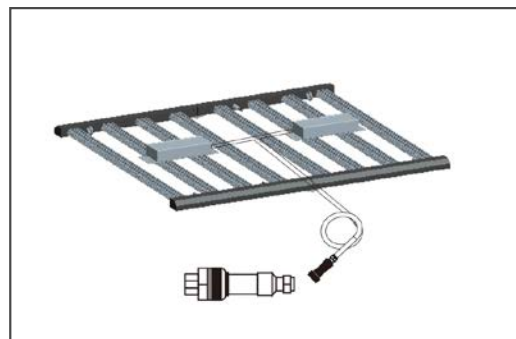


4. All done!

ZELNA FOLDED BAR LED LAMP



1. Attach the cables to the beam or ceiling.
Hang the lamp frame as indicated.



2. Connect the light and the driver, and
plug to the power source.



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