

# enLux 120V LED Grow Lights

## A versatile alternative for artificial greenhouse lighting

### Advantages of the enLux LED Grow Light

**Life: 50,000 hours** – lit for 8 hours/day, 365 days/year, it will last over 17 years

**Efficiency: 15W Typical** (22W max) - uses 1/5 of the power of a 100W colored incandescent floodlight

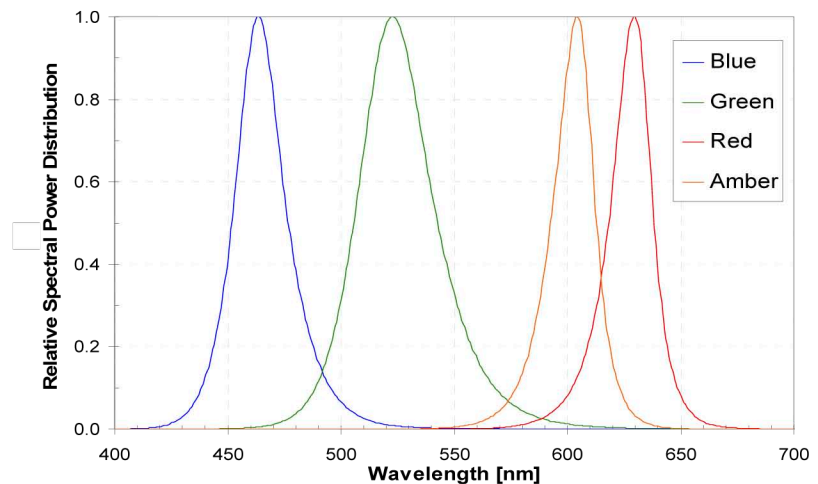
**Color purity:** specific wavelength; and no UV emitted



| COLOR | Dominant Wavelength (nm) |         |     |
|-------|--------------------------|---------|-----|
|       | Min                      | Typical | Max |
| Blue  | 460                      | 468     | 485 |
| Green | 510                      | 528     | 540 |
| Red   | 612                      | 619     | 625 |
| Amber | 590                      | 599     | 603 |

### Grow Light can be used in three different ways for plant growth

1. Provide all the light a plant needs to grow.
2. Supplement sunlight, especially in winter months when daylight hours are short.
3. Increase the length of the “day”, in order to trigger specific growth and flowering.



Light level is one of the important variables for optimizing plant growth, others being light quality, water, carbon dioxide, nutrients and environmental factors.

Plants need light for photosynthesis, therefore for growing. Researchers have found that blue and red light is essential for plant growth. LEDs (light-emitting diodes) can be calibrated to emit a specific wavelength.

LED light is good for places where direct light from the sun is not enough or inexistent. It is also good for plants where light from the sun is too strong and can harm the plants with the high emission of UV. One of the most important advantages in using the enLux LED Grow Light is there is no UV emitted.

The quality of light is as important as the quantity. Plants, respond more effectively to red light and to blue light, the peak being in the red region at around 630 nanometers. Red light provides the most efficient food for plants.

A plant illuminated only with red or orange light will fail to develop sufficient bulk. Leafy growth (vegetative growth) and bulk also require blue light. Just as humans need a balanced diet, plants need balanced, full spectrum light for good health and optimum growth

# enLux LED Grow Lights

## enLux 120V LED Grow Light Specifications:

- Expected Life: 50,000 hrs
- Power Usage: 15W Typical (22W max)
- Power Source: 120V AC line current
- Light Source: enLux patented Light Engine
- Light Output: Roughly twice the light output of a 100W incandescent floodlight with a colored lens.
- Beam Angle: 80 degree
- Operating Temperature : Open air fixtures: -4°F to 105°F (-20°C to 40°C)
- Ventilation: For use only in "open air" or nearly "open air" fixtures, such as exposed track and outdoor fixtures.  
Cannot be used in fully enclosed fixtures.
- Weight: 0.5 lbs
- Warranty: 2 years
- Sockets: For use in medium screw based sockets(E27).  
Do not use with 3-way sockets.  
Dimmable with specific dimmer models, contact us at [info@enluxled.com](mailto:info@enluxled.com).

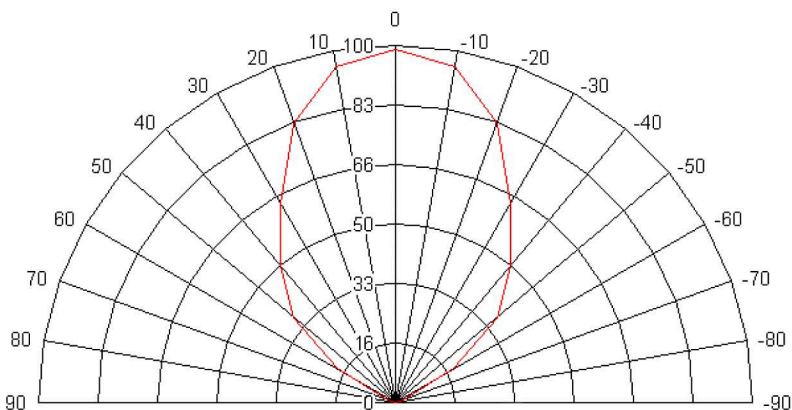


UL approved for wet and dry locations. However, in wet environments, the enLux LED floodlight should be aimed downward to prevent water from contacting the screw base.

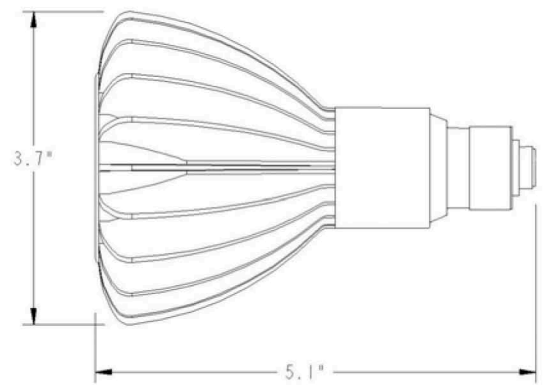
| COLOR | Dominant Wavelength (nm) |         |     |
|-------|--------------------------|---------|-----|
|       | Min                      | Typical | Max |
| Blue  | 460                      | 468     | 485 |
| Green | 510                      | 528     | 540 |
| Red   | 612                      | 619     | 625 |
| Amber | 590                      | 599     | 603 |

## Available in 4 Dominant Wavelengths and 6 Fin Colors

|       | Color Fins  | White Fins  | Black Fins  | Silver Fins   |
|-------|---|---|---|---|
| Red   |     |    |    |    |
|       | P/N 1609  | P/N 1600  | P/N 1601  | P/N 1602  |
| Blue  |     |    |    |    |
|       | P/N 1909  | P/N 1900  | P/N 1901  | P/N 1902  |
| Green |   |  |  |  |
|       | P/N 1809  | P/N 1800  | P/N 1801  | P/N 1802  |
| Amber |  |  |  |   |
|       |   | P/N 1700  | P/N 1701  | P/N 1702  |



Light Distribution (as percentage of center beam power)



Featuring a standard, medium screw-in base, installation is as simple as screwing in the enLux LED Grow Light and turning it on.