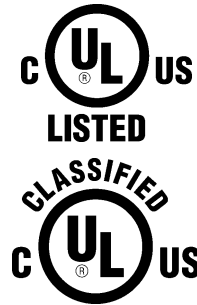




LED GROW LIGHTS BY LIGHT EFFICIENT DESIGN



Description:

17 watt full spectrum LED Grow Light. Effectively replaces a 4 foot long, 32 watt T8 grow lamp. It can be installed in an open or closed fixture, and accepts an input voltage of 120-277VAC (single end power.)

Several of the key benefits of this light include:

- Light Spectrum is efficiently absorbed by plants
- Save money on maintenance and electricity
- UL listed for damp location
- Long lasting – 50,000 hr expected life
- Cool running so light can be mounted close to plants
- White light is easy to work under and attractive

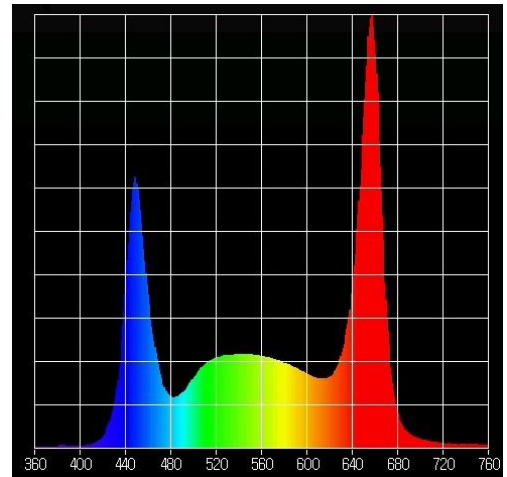
Applications:

These lamps can be used for all phases of growing, and are typically used for germination and vegetative growth. They can also be used for flowering of smaller plants including succulents, flowers, and orchids.

Due to the low heat output and narrow profile, these lamps are well suited to shelf or vertical grows. Typically these lamps are mounted between 4" and 6" from the plants. Coverage area is typically up to 1 foot wide by 4 feet long.

Notes:

- When installing retrofit lamps, the ballast must be bypassed when present.
- All specification information falls within a +/- 5% range and is subject to change without notice.
- Light Efficient Design is providing this information to the general public. Please note that all products contained herein are trademarked, copyrighted and/or have patents pending. Any use of these designs is strictly prohibited without prior written consent. Light Efficient Design protects its proprietary information vigorously in the courts of the United States of America.



Technical Specifications	
Type	Retrofit
Mounting	G13 Bi-Pin
Material	Aluminum / Polycarbonate/ Other
Input Voltage	120-277 VAC
Power Consumption	17 watts
Power Factor	> 0.95
PAR Output (Center)	
6 inches	84 $\mu\text{mol}/\text{m}^2/\text{s}$
8 inches	42 $\mu\text{mol}/\text{m}^2/\text{s}$
10 inches	28 $\mu\text{mol}/\text{m}^2/\text{s}$
12 inches	20 $\mu\text{mol}/\text{m}^2/\text{s}$
LED Colors	Full Spectrum White and Deep Red
Coverage area	up to 4' by 1'
Dimmable	No
Beam Angle	Wide
Rated LED Life	50,000 hours
Length	48"
Width	1.0"
Height	1.2"
Mercury/Lead content	None
Warranty	5 year limited