GREEN PHOSPHOR O.R. LAMP

For Minimally Invasive Surgical Suites

VISTA
Healthcare Lighting Solutions

Specifier's Reference

Project Name	Type
Catalog No.	
Comments	


Combination Green & White Lamps


All White Lamps

Vista's LM50G green phosphor lamp produces green light at a 550 NM wavelength. In a fixture equipped with white lamps, the addition of 550 NM green boosts the relative power of the light frequency to which the eye is most responsive. The result is a more calm feeling environment, less stressful and more visually comfortable. Eye-strain and fatigue are reported to be less prevalent when green light is introduced.


Combination Green & White Lamps

During Minimally Invasive procedures, it is quite common to reduce, or eliminate altogether, the level of white ambient illumination while viewing high definition monitor screens. 550 NM green results in lower levels of contrast glare with good visibility.

Specifications

LM550G-4

- 100 Hour Lumens 4,100
- 100 Hour Lumens per Watt 128
- Mean Lumens 3,900
- 40% Life Lumens 3,850
- UL / CUL.

LM550G-2

- 100 Hour Lumens 1,850
- 100 Hour Lumens per Watt 109
- Mean Lumens 1,740
- 40% Life Lumens 1,640
- UL / CUL.

Ordering Information

-LM550G
32W T8

-LM550G-2
17W T8

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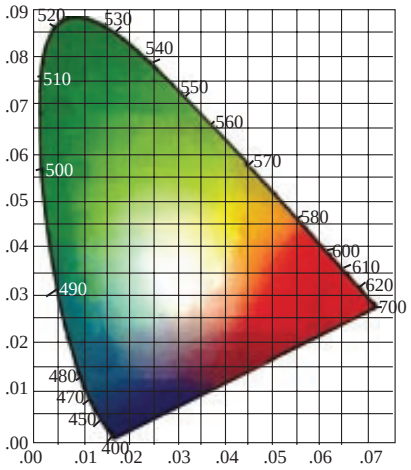
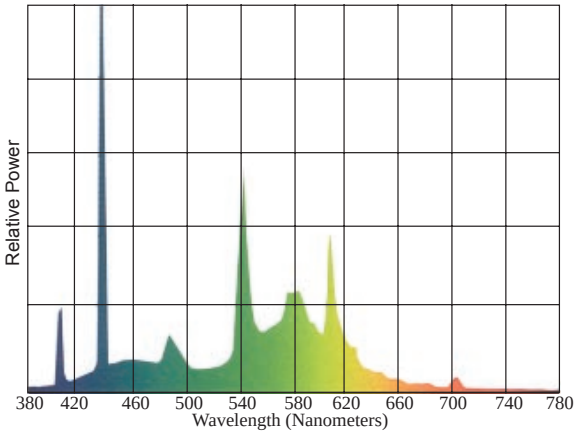
About 550NM Green Light

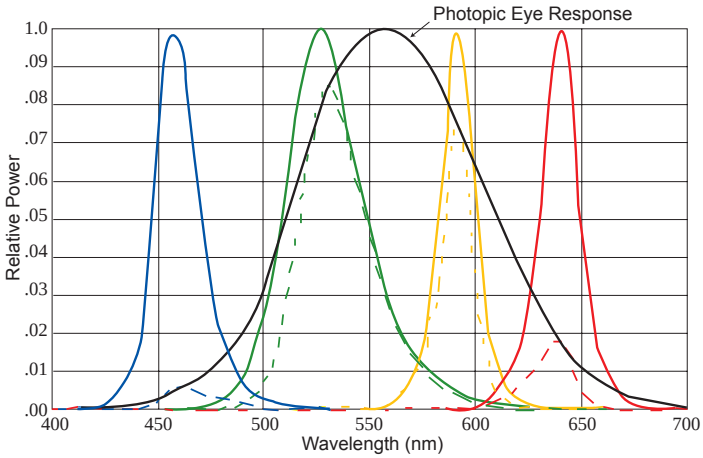


The above CIE chart illustrates the many colors of green. Green light when combined with Red and Blue produces a white light source. A translucent sleeve of any green when applied over a white lamp will drastically reduce lumen output.

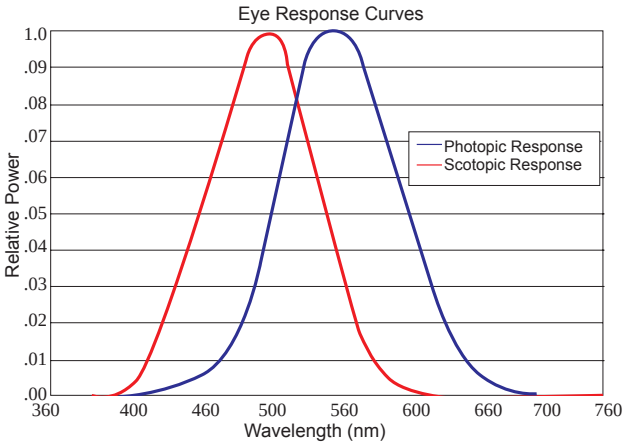
In addition to cutting the lumen output, green sleeves are expensive and must be replaced as they age.



This Spectral Distribution Curve indicates the relative power of the color contained within an ordinary white fluorescent lamp.



The chart above illustrates Photopic Eye Response to the various colors inherent in white light. 550 NM green is near the top of the response curve.



The curves above indicate frequencies of peaks in both Photopic and Scotopic eye responses.

VISTA
a Genlyte company

Hg Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org.

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