Maximum luminous efficiency of optical module

To be precise, luminous efficacy establishes the direct relationship between the luminous flux generated by a light source and the electrical power consumed.

Luminous efficacy is defined as a measure of how bright radiation is perceived by the average human eye, expressed in lumens per watt (lm/W). The maximum luminous efficacy, 683 ...

The response of the eye as a function of frequency is called the luminous efficacy of the eye. It has been tabulated for both the light-adapted (photopic) case and the dark-adapted (scotopic) case. Source: ...

Luminous efficacy, quantified in lumens per watt, is a measure of the ability of a light source to produce a visual response from its power. In the photopic region, luminous efficacy peaks at 683 lumens per ...

Luminous efficacy can be normalized by the maximum possible luminous efficacy to a dimensionless quantity called luminous efficiency.

Here, not only for LEDs but for any light source, we numerically calculate the SPDs which maximize luminous efficacy of radiation (LER) in ...

The article clarifies the two common reference points for this maximum: either the ideal value of 683 lm/W for monochromatic green light, or the maximum possible for a given optical spectrum, which is ...

The constant, Km, relates the photometric quantities and radiometric quantities, and is called the maximum spectral luminous efficacy of radiation for photopic vision.

Luminous efficacy is a measure of how well a light source produces visible light. It is the ratio of luminous flux to power, measured in lumens per watt in the International System of Units (SI).

Luminous Intensity describes the quantity of light that is radiated in a particular direction. This is a useful measurement for directive lighting elements such as reflectors.

Module designation LED-1294/830 Colour temperature 3000 K Colour rendering index CRI > 80 Module luminous flux 1385 lm Luminaire luminous flux 887 lm Luminaire luminous efficiency 75,2 lm / W

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