



# Convert solar luminosity to watts

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Here is a list of useful conversions:Length:

&#9;1 ly = 9.4605x10<sup>15</sup> m = 9.4605x10<sup>12</sup> km (light year)&#9;1 pc = 3.0857x10<sup>16</sup> m = 3.0857x10<sup>13</sup> km = 3.2616 ly = 206265 AU (parsec)&#9;1 Mpc = 10<sup>6</sup> pc = 3.2616x10<sup>6</sup> ly (Megaparsec)Angles:

I'm very sorry to report that an error has occurred with this calculation.

Please contact me if you continue to see this error (error: "+xhr.status+").

Disclaimer: Whilst every effort has been made in building our calculator tools, we are not to be held liable for any damages or monetary losses arising out of or in connection with their use. Full disclaimer.

When buying lightbulbs, you'll see commonly see several measurements listed on the packaging. Perhaps the most recognisable one, which has existed for decades, is the wattage. However, times are a changing, and innovation has led us into updating how we rate and reference our bulbs. Enter the lumen.

The Watt is a unit of power. The Lumen is a measurement of light output. For our lightbulbs, the lumen defines the perceived brightness of a specific bulb (such as an LED fixture).

In the past, we commonly bought conventional bulbs on the basis of wattage. We knew that a 75W lightbulb produced more light than a 40W bulb. Over time, the technology involved in lightbulb manufacturing has improved to allow the production of more energy-efficient bulbs (CFL, LED). These bulbs produce the same levels of brightness (lumens) as older incandescent and halogen bulbs, but with a fraction of the power (watts). As an example, to produce 480-720 lumens of light might require 40W of power for an incandescent bulb, but only 6-7W for an energy-efficient LED bulb.

If you're in the process of replacing your light bulbs, consider looking at our LED Savings Calculator to see how much money you could save on your energy bill by switching to LED lighting.

Now, it may be that you've been told you need a certain amount of lumens of brightness to light your room, and you may be wondering how what wattage lightbulb you should look for. That's where a conversion can come in handy to guide you.

If you want to carry out a conversion from lumens to watts, you can use the following formula:

lm/W stands for lumens per watt and is a unit measuring luminous efficacy and energy efficiency - how much visible light is produced for a given amount of electricity. As an example, a 60W incandescent light bulb may



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produce around 900lumens, giving it a luminous efficacy of  $900/60 = 15 \text{ lm/W}$ .

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