

3/2/16

UV Emitted by RemPhos LED Lamps

Dear Customer:

We sincerely appreciate the opportunity and acknowledge the support from you in choosing RemPhos to supply environmentally friendly, efficient LED lighting for your projects.

We would like to offer the following important information on our products.

Often we are asked if there is an ultraviolet (UV) component in our LED lamps/retrofit kits and fixtures.

This letter is designed to address these questions.

Often UV can be:

- harmful to people who are sensitive to UV radiation
- harmful to environments such as clean rooms with materials which are sensitive to UV radiation.

RemPhos carefully selects the LED diodes and packages used in its products to ensure that UV is not an issue.

The following graph discusses what if any UV is contained in our products. For this testing A-lamp or MR16 is used for ease of comparison, but the UV is no different for any other format of our products (LED tubes, fixtures, retrofit kits etc.).

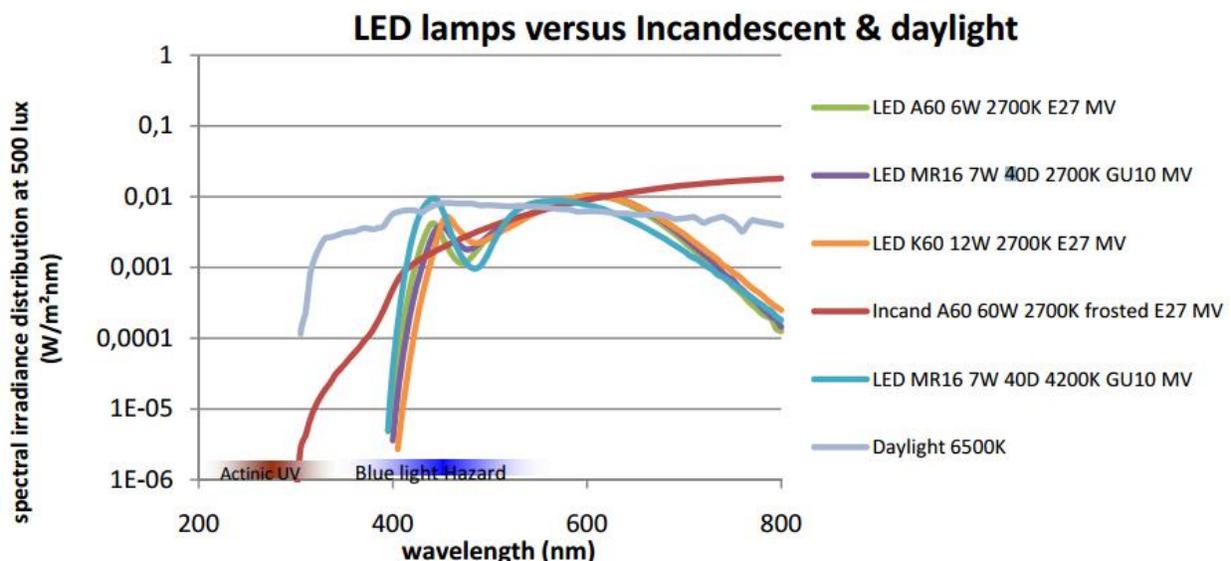


Diagram 1



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As can be seen in Diagram 1 by the purple, orange, green and aqua lines (all which represent LED from 2700k to 4200k of various wattages), there is a sharp cut off in the wavelength ~400nm. One can also note that the baby-blue line representing Daylight 6500k (sunlight) and the red line representing a typical 60W incandescent A-lamp have high components of UV.

UV starts around 100nm and goes up to 400nm. From 400nm to 700nm, this is visible light and then anything above 700nm is considered infrared. This can be seen in Diagram 2.

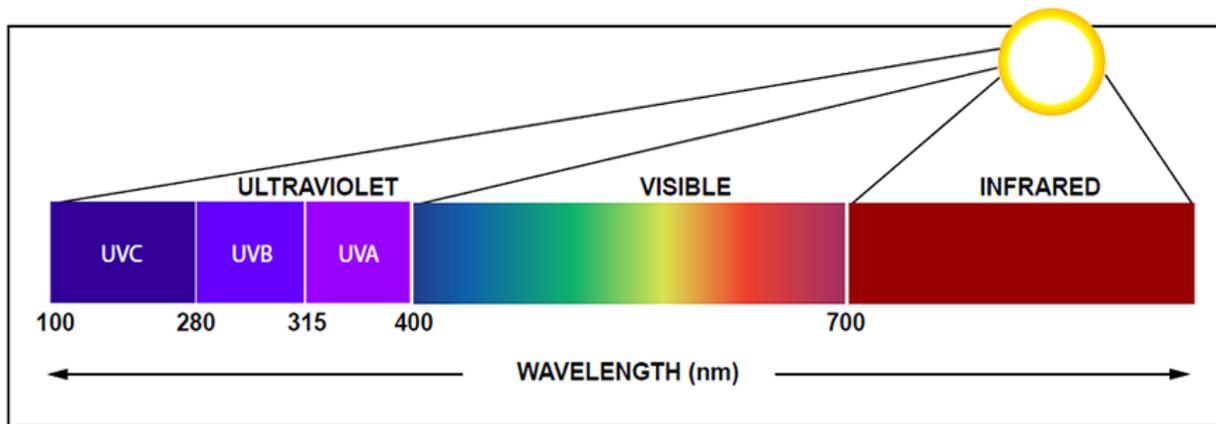


Diagram 2

In summary, RemPhos products contain virtually no measureable UV light that would have negative effects on people or materials sensitive to UV.

Our team looks forward to working with you on this and many more exciting projects.

Thank you for the opportunity,
RemPhos Technologies LLC

