

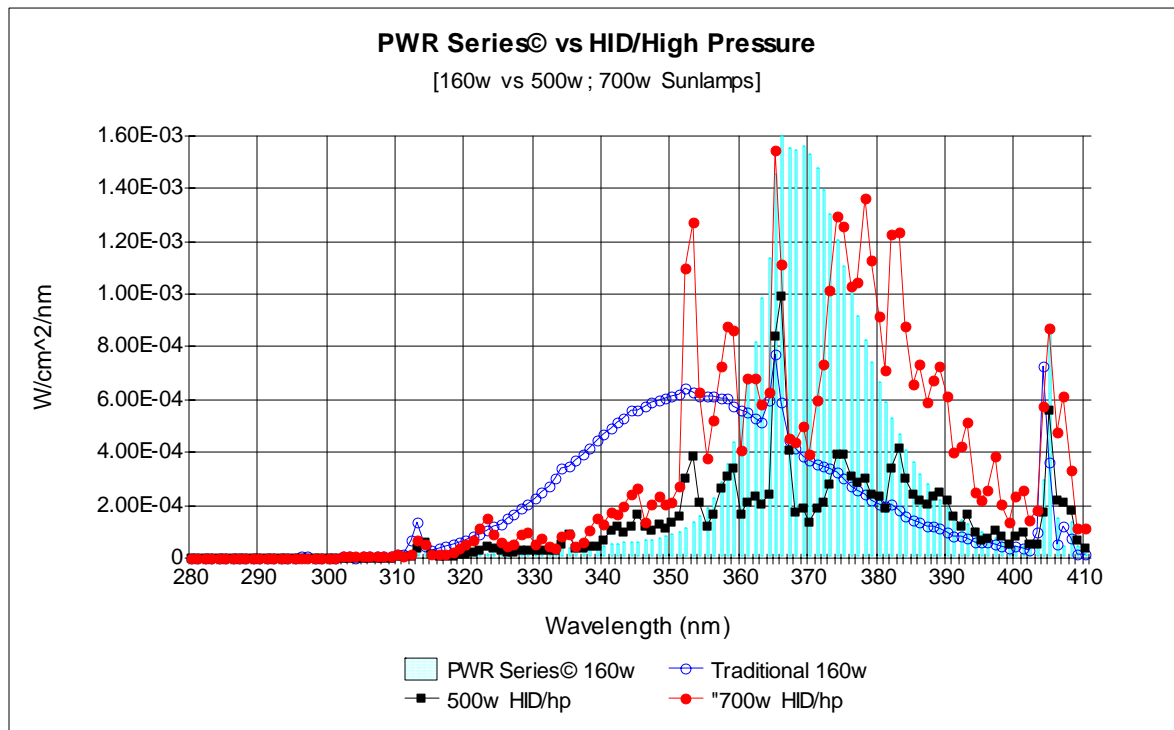
## **The Search For The Ideal Sunlamp** ***Part 5: Spectral Matching***

By John J. Andros

*Editors Note: John Andros is Vice President and Business Leader of the Specialty Lamp Division (which includes the sunlamps manufactured for the indoor tanning industry) of Voltarc Technologies, Inc. The article "The Search For The Ideal Sunlamp" is the first of a series of articles intended to educate and inform tanning salon professionals about sunlamps so that they, in turn, can educate and inform their clients.*

**Spectral Matching.** In previous advertorials we have discussed the fact that the PWR Series© sunlamps (1) increase the number of tanning photons (more of what you want), and, (2) decrease the number of the photons associated with (a) skin damage, and, (b) immuno-suppression (less of what you don't want). In this installment, I will discuss why better "spectral matching" between the PWR Series© sunlamps and HID/high pressure sunlamps is so important. Indeed, it is now possible to achieve a much better "spectral match" in sunbeds utilizing both modalities and that is "good news" for tanning salon owners.

The graph below shows (1) how a "traditional" 160w sunlamp (blue line) compares with (2) the PWR Series© sunlamp (turquoise bars); and how both the traditional 160w sunlamp and the PWR Series© 160w sunlamp compare with (a) a 500w HID/high pressure sunlamp (black line), and, (b) a 700w HID/high pressure sunlamp (red line). As you can see, the PWR Series© 160w sunlamp more closely "matches" the spectral distribution pattern of both the 500w and 700w HID/high pressure sunlamps than does the traditional 160w sunlamp and has (a) significantly more total irradiance than the 500w HID/high pressure sunlamp, and, (b) about the same total irradiance as the 700w HID/high pressure sunlamp.



**Should you switch to the new PWR Series© sunlamps in your salon? Only if you want an unfair advantage over your competitors!** For more information, call (888) VOLTARC or go to [www.voltarc.com](http://www.voltarc.com).

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