

Introducing the Circadian Score Database: Product iQ®

Differentiate luminaires with circadian ratings

Lighting designers, architects, building owners and manufacturers have a critical role to play in the impact of indoor lighting on building occupants and their circadian rhythms. When humans are exposed to lighting conditions that provide "bright days and dim nights," applied research has shown that sleep quality and quantity increase at night, sleepiness during the day is reduced, and negative health impacts are less prevalent. Luminaires and control systems designed for positive impacts to human health are becoming more prevalent in homes, offices, and commercial spaces.

Our circadian services measure photometric characteristics for luminaire categories such as recessed troffers, pendants, wall washers, wall sconces, downlights, desk lamps and reflective surfaces. Circadian scores are calculated for the three published methods, and this data is now available in a simple, searchable online database through the Circadian Product iQ® tool from UL Solutions.



Benefits of inclusion in Circadian Product iQ® for lighting manufacturers:

- Differentiate your products to lighting designers, architects and building owners looking for optimal healthy lighting choices
- Share your product's circadian data through an easy-to-use parametric search
- Highlight product imagery and features of your tested products

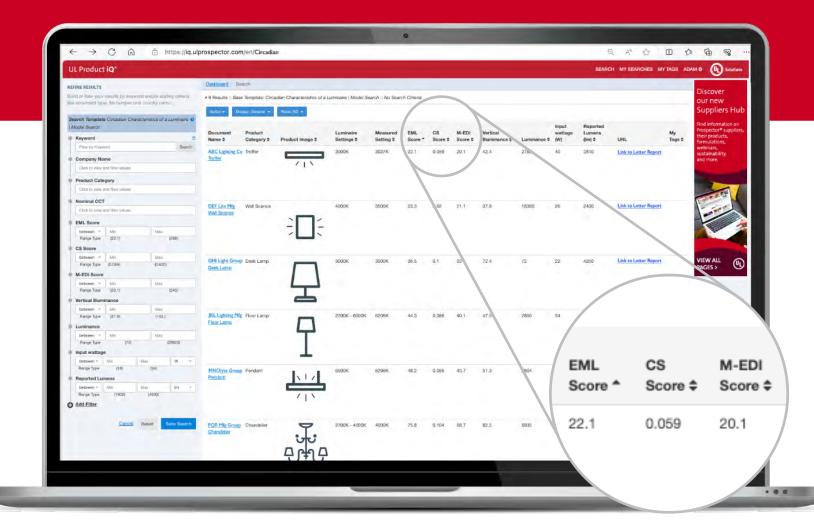


Benefits of using Circadian Product iQ[®] for lighting designers, architects, and building owners:

- Find products with a simple parametric search by product or company
- Easily sort and compare circadian scores
- Save searches and tags (optional paid feature) to save time and work more efficiently



Circadian scores searchable by manufacturer, product category, or wattage





Easily search the circadian scores of luminaires in the database.





Why UL Solutions?

With our Circadian Product iQ[®] tool, lighting designers can explore the non-visual aspects of luminaires and help determine what products to specify in their next lighting design project. Search for circadian luminaire scores and luminaire reports and easily compare circadian test results of tested products.

UL Solutions measures the spectral power distribution (SPD) of luminaires at the vertical plane of the observer's retina in our customized laboratory space. We then use three algorithms to report the circadian score of the luminaire, which measures its circadian effectiveness, in the Circadian Product iQ® tool:

- EML: based on International WELL Building Standard
- CS: based on UL Design Guideline 24480
- M-EDI: based on DIN Technical Spec 67600

A higher circadian score indicates that the luminaire delivers more circadian effectiveness to the building occupant during the day. In other words, the luminaire more effectively supports a healthy circadian rhythm for people spending time in that building.

Lighting designers and architects can now compare the circadian score of luminaires and select the best product for their upcoming project.

Manufacturers

Contact us at <u>performancelighting@ul.com</u> to start a quote for circadian luminaire testing and to discuss how UL Solutions can help advance visibility of your circadian stimulus readings to your audience.

Explore the Circadian Score Database: Product iQ® at UL.com/CircadianiQ

More resources, on-demand webinars and videos demonstrating the power of circadian lighting are available online at UL.com/circadian



Access to view Product iQ[®] requires the one-time setup of a complimentary account, with optional paid features available.

