

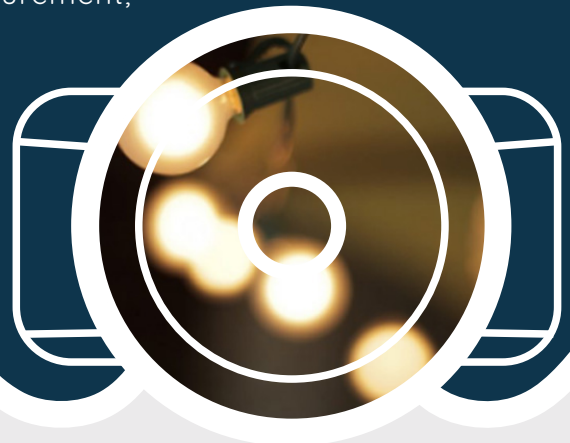
# WAVE FOR: LIGHTING DESIGN

According to the Environmental Protection Agency (EPA), we're now spending more than 90% of our time indoors.

This increased exposure to artificial light is having a growing impact on our lives, on our mood, health and wellbeing.

As more is known about how the quality of light impacts what it illuminates, moving beyond the simple lux meter to monitor the entire light spectrum becomes critical.

Wave is helping architects, designers, electrical engineers and more to deliver truly appropriate light through complete light measurement, advanced calculations, and reporting.



## Wave for Lighting Professionals

We all need the right lighting to survive and thrive. The wrong amount, quality or spectral distribution of light can affect work, sleep, mood, focus and ability to complete a task. After all, light is the main stimulus that helps the body's circadian entrainment with the 24-hour day.

Whether managing illumination vs. preservation in an art gallery or delivering human-centric lighting in a healthcare facility or workspace, you can use the Wave solution to **turn light measurement into value for your customers.**

The Wave solution offers unique insights coinciding with recent evidence-based research on the affects of lighting on human and animal health. Explore equivalent melanopic lux, circadian stimulus, circadian potency/photopic ratio, circadian blue potency and relate light levels, color temperature, and complete spectral composition to a variety of health issues.

Understand the power of UVA, UVB, and UVC light for disinfection applications which are becoming more important to regularly manage the cleanliness of high touch surfaces (coming soon).

**While the science of lighting is complex, with Wave, the measurement of lighting is easy.**

### Benefits for designers and manufacturers:

- Design and manage healthy lit environments by utilizing the latest lighting technology and measured light metrics
- Adjust white or tunable fixtures to compensate for ageing LEDs, seasons, or changes in room color palette
- Easily archive your lighting data to share with others, now and in the future
- Equip employees with professional tools that enable ease of sale and demonstrate high professionalism
- Co-brand custom apps with unique functionality for your lighting portfolio or field staff

### Benefits for installers and service providers:

- Check lighting compliance for different scenes (practice, study, gameday, cleaning, night time)
- Compile data for new energy saving schemes
- Craft project proposals with lighting facts to gain approvals for renovations
- Unlock revenue streams in lighting services to augment other on-site work
- Uncover potential issues before they lead to excessive maintenance costs
- Document long term results in the cloud for insurance and facilities management



What our customers say

'Arup uses the Wave Solution to monitor lighting in our own offices, as well as in the installations we do for our clients, in order to improve the wellbeing of the people we engage with.'

ARUP, Research & Development  
Global Resource Team



# Integrated Lighting Reporting and Analysis



## Project workflow

- 1 Specify/procure WaveGo professional measurement tool.
- 2 Take sequential measurements throughout your lit environment based on predetermined locations, horizontal/vertical orientation, and height.
- 3 Export multiple measurements in single CSV file. Match location names on project drawing.
- 4 Distribute results to client/company.



## Easily compare measurements side by side

- A See UTC time stamp, device location/orientation information.
- B See all calculated lighting metrics like Lux, CCT, CRI, CS, CPFR.
- C Compare lighting metrics side by side in each column to uncover variance, check measurement to design standard, and calculate averages.
- D See complete spectral information in 1nm increments from 400nm - 800nm and displayed in µW/cm<sup>2</sup>/nm.

## Measurements

Absolute Irradiance Spectrum	Equivalent Melanopic Lux
Dominant wavelength	Circadian Stimulus
Lux	Circadian Potency/ Photopic Ratio
CCT (K)	Circadian Blue Potency
CRI (Ra, R1-15)	UV Dosage
TM30 (Rf & Rg)	Flicker



## Services & Support

We are passionate about light and helping people use the Wave Solution to harness its power. Check our additional services available to Wave customers, including:

- Annual calibration
- Global technical support
- Application knowledge and consulting
- Custom app development

