BIOS® SPEC LANGUAGE

As interest in healthy spaces and overall wellness increases — and the benefits of circadian lighting become more widely understood — specifiers are being asked to implement lighting that meets both visual and biological needs.

Understanding circadian lighting, however, can prove to be quite daunting from a specification standpoint. Which performance characteristics are important? How should these characteristics be described? These questions can leave many designers and specifiers at a loss for what to include in their deliverables.

BIOS offers LED circadian lighting solutions that are unparalleled in the lighting industry, boasting the highest melanopic to photopic ratios (m/p) for a given color temperature while maintaining color quality.

When specifying BIOS circadian lighting solutions, there are several key performance metrics that can be included to help designers hold spec and get the quality and performance needed to achieve the most effective and comfortable circadian lighting. To include BIOS circadian lighting solutions in a lighting specification package, use the key performance metrics and language noted right.

For tabulated data use this link:
http://bioslighting.com/spectabulated

When inserting BIOS into your ordering code, use the following naming conventions where you provide CCT options:

BIOS Naming Convention
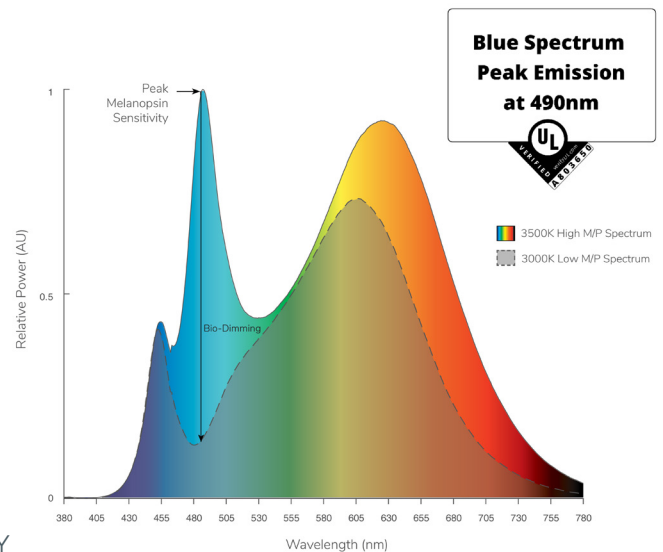
BIOS 3000K Dynamic (m/p 0.70)	30BIOSDY	30BIOS/DY
BIOS 3500K Dynamic (m/p 0.80)	35BIOSDY	35BIOS/DY
BIOS 4000K Dynamic (m/p 0.90)	40BIOSDY	40BIOS/DY
BIOS 3000K Static (m/p 0.70)	30BIOSST	30BIOS/ST
BIOS 3500K Static (m/p 0.80)	35BIOSST	35BIOS/ST
BIOS 4000K Static (m/p 0.90)	40BIOSST	40BIOS/ST

OR

How to Specify BIOS

- Melanopic to photopic ratio (m/p) of at least 0.70 @ 3000K

- Melanopic to photopic ratio (m/p) of at least 0.80 @ 3500K

- Melanopic to photopic ratio (m/p) of at least 0.90 @ 4000K

- Blue Spectrum Peak Emission at 490nm.

- CRI 80+ and R9 >80

- For Healthcare Applications - Cyanosis Observation Index (COI) of 3.3 or lower.

- For Bio-Dimming Applications - Spectral control and intensity via single dimming interface (see graph below.)

Blue Spectrum Peak Emission at 490nm

Peak Melanopsin Sensitivity

Bio-Dimming

■ 3500K High M/P Spectrum
■ 3000K Low M/P Spectrum

Relative Power (AU)

Wavelength (nm)

BIOS IS A PROUD WINNER OF THE 2019 SAPPHIRE AWARD FOR BEST PRODUCT FOR HEALTH AND WELL-BEING