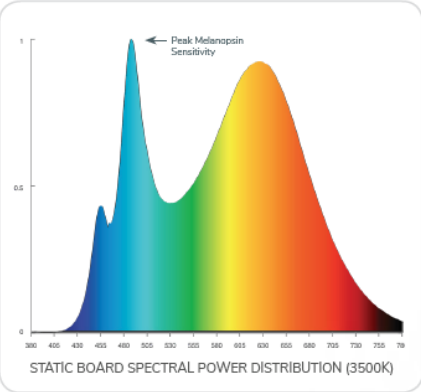
Swell™

STATIC SPECTRUM ENGINE vs DYNAMIC SPECTRUM ENGINE

BIOS® SkyBlue® lighting solutions provide full daytime circadian stimulus, communicating directly with human circadian biology through a non-visual photo receptor in the eye. With SkyBlue, there's no need for color-tuning, color temperature adjustments or extra illumination. It's circadian lighting without compromise.

STATIC LIGHT ENGINE

The SkyBlue Static Spectrum Light Engine delivers the industry's best melanopic-to-photopic (m/p) ratio, with R9 greater than 90 at each color temperature. Easily integrated into existing LED fixtures and compatible with all LED drivers, the SkyBlue Static Spectrum Light Engine is the ideal replacement for static color light fixtures.



LUMINAIRE PROFILES

- Troffers
- Linear Fixtures

PRIMARY APPLICATIONS

- Assisted Living Facilities
- Hospitals
- Offices
- Schools
- Factories

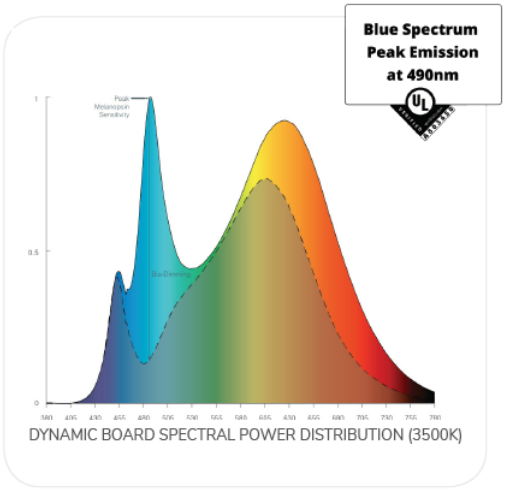
NOMINAL PERFORMANCE

CCT	M/P Ratio[1]	Efficacy [lm/W]	CRI	R9	COI[2]
3000K	0.70	109	82	94	3.0
3500K	0.80	116	83	91	3.1
4000K	0.90	120	83	91	3.1

1. M/P is a ratio that describes the relative melanopic lux (M) versus the photopic lux (P)
2. COI - Cyanosis Observation Index

DYNAMIC LIGHT ENGINE

The SkyBlue Dynamic Light Engine automatically calibrates the light level, reducing melanopic lux while keeping photopic lux at a constant. When paired with the BIOS Bio-Dimming module it operates using any single channel CC LED driver, using any dimming interface. Optionally, it could work with existing two channel control systems. Available in 3000K (dim to 2700K), 3500K (dim to 3000K), and 4000K (dim to 3500K).



BIOS High M/P LED Spectrum (3500K)

Low M/P LED Spectrum (3000K)

LUMINAIRE PROFILES

- Troffers
- Linear Fixtures
- Downlights
- Accent Lights

PRIMARY APPLICATIONS

- Assisted Living Centers
- Hospitals
- Hospitality
- Offices
- Schools
- Factories

NOMINAL PERFORMANCE

Daytime CCT	Daytime M/P Ratio	Nighttime CCT	Nighttime M/P Ratio	Efficacy [lm/W]	CRI	R9	COI[3]
3000K	0.74	2700K	0.45	104	83	90	3.3
3500K	0.83	3000K	0.50	106	83	90	3.1
4000K	0.95	3500K	0.55	110	83	90	3.1

3. COI values as noted pertain to Daytime CCT only