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|----------|--------------|-------|
| Project: | Catalogue #: | Type: |
| Notes: | | |

Product Description

The Bevel is a BIOS-enabled premium-grade, recessed, lay-in T-Bar troffer featuring two angled lenses with a flat center rail. Its modern styling provides depth and high visual comfort with increased glare control. For use with indoor applications where high-efficiency, high performance and ease of installation are required.

This fixture is equipped with BIOS SkyBlue® circadian LED technology, specifically for increased melanopic lux and circadian stimulus for daytime applications. This luminaire can be configured with either BIOS Static for applications where a constant level SkyBlue® content is desired, or BIOS Dynamic for applications requiring variable SkyBlue® content based on time of day. Provides minimum melanopic (M/P) ratio of >0.7 at 3000K, CRI 80+, R9>90; and cyanosis observation index (COI) less than or equal to 5.4.



Applications

Office Areas, Retail Stores, Classrooms, Hospitals, Nursing Homes, Hospitality

Features

- 1x4, 2x2, 2x4 and 20x60 configurations
- Standard low voltage 1% dimming (0-10V)
- For use in insulated ceilings

Featured Options

- Intellect occupancy/daylight sensor
- Tunable white
- Circadian lighting
- Emergency lighting battery pack

Optical System

Two angled frosted diffusers.

Mounting

This luminaire has been specifically designed for T-Bar applications. Integral earthquake clips.

Construction

Die-formed, cold rolled heavy-gauge steel housing assembly. Wiring access plates and knockouts are provided on back of housing.

Finish

White, polyester powder painted housing.

Electrical

Long life LEDs coupled with high efficiency drivers provide quality illumination. Rated to deliver L80 performance > 50,000 hours. Standard low voltage dimming (0-10v) driver.

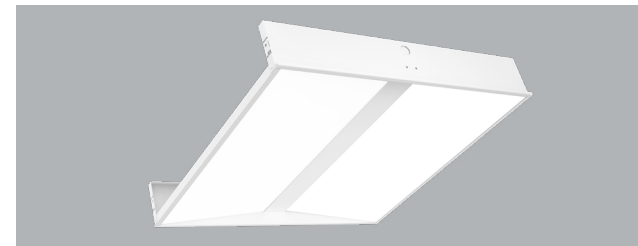
Warranty

5 year limited warranty. For complete warranty, click here: 

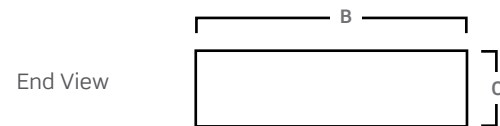
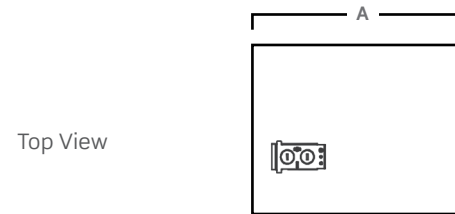
Approvals

- ETL listed. Suitable for damp locations

All configurations may not be DLC qualified. Check www.designlights.org/QPL for qualified configurations.



Dimensions



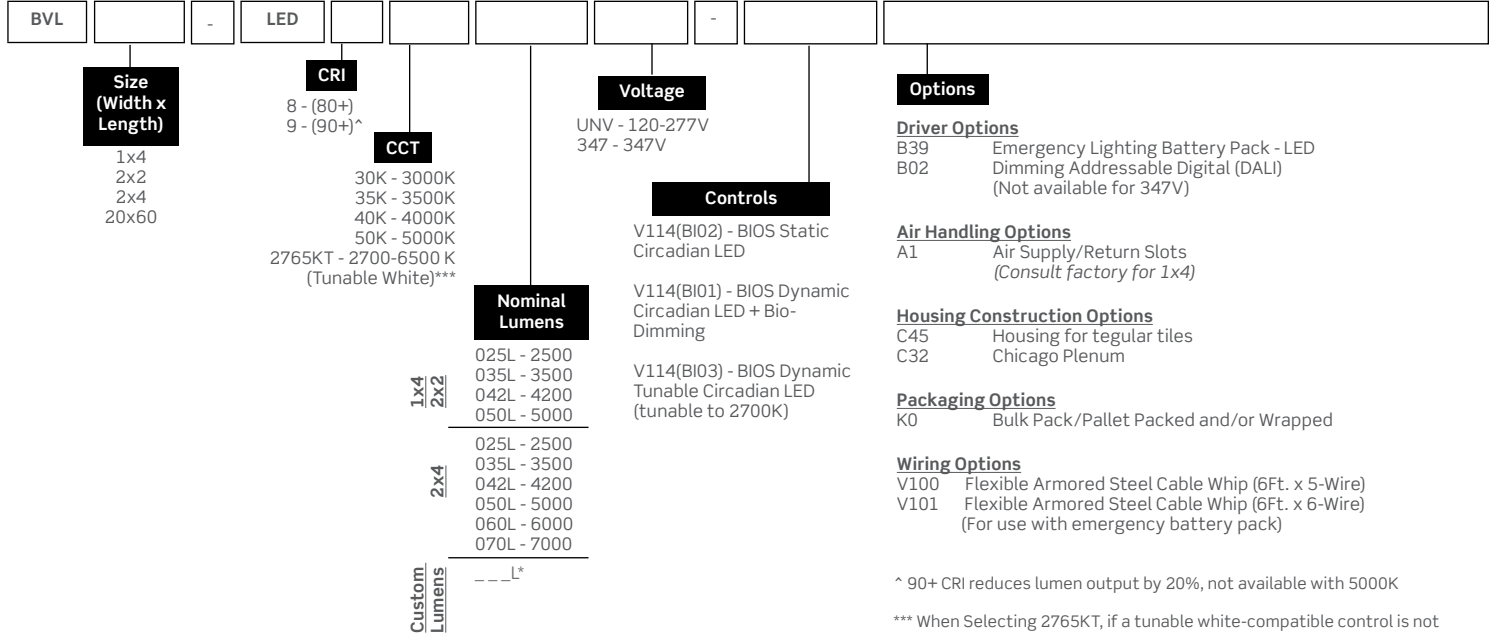
| Size | A | B | C |
|-------|--------|--------|----|
| 1x4 | 47.75" | 11.75" | 4" |
| 2x2 | 23.75" | 23.75" | 4" |
| 2x4 | 47.75" | 23.75" | 4" |
| 20x60 | 59.75" | 19.75" | 4" |

Consult installation guide for exact dimensions.

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Order Key

EXAMPLE: BVL2x2-LED840K042LUNV



[^] 90+ CRI reduces lumen output by 20%, not available with 5000K

^{***} When Selecting 2765KT, if a tunable white-compatible control is not selected the luminaire will come standards with two sets of 0-10V wires for dimming and color tuning (see tunable white diagram for details). For compatible control options please consult factory.

Other options may be available, consult factory. Specifications and data subject to change without notice.

Performance Data

| LED Performance Data | | | | |
|----------------------|----------------|------------------|-------|-----------------|
| Size | Nominal Lumens | Delivered Lumens | Watts | Lumens Per Watt |
| 1x4 | 2500 | 2533 | 19.3 | 131.4 |
| | 3500 | 3533 | 27.3 | 129.3 |
| | 4200 | 4269 | 33.5 | 127.6 |
| | 5000 | 4995 | 39.7 | 125.8 |
| 2x2 | 2500 | 2523 | 18.8 | 134.2 |
| | 3500 | 3526 | 27.3 | 129.4 |
| | 4200 | 4251 | 33.7 | 126 |
| | 5000 | 5040 | 39 | 118 |
| 2x4 | 2500 | 2518 | 17.3 | 145.6 |
| | 3500 | 3524 | 24.5 | 143.6 |
| | 4200 | 4242 | 29.9 | 142 |
| | 5000 | 5050 | 36.1 | 140.1 |
| | 6000 | 6043 | 43.9 | 137.7 |
| | 7000 | 7049 | 52.1 | 135.3 |

| *Custom Lumens | | |
|----------------|----------------------|---------|
| Size | Nominal Lumens Range | Watts |
| 1x4 | 2500 - 5000 | 20 - 41 |
| 2x2 | 2500 - 5000 | 21 - 43 |
| 2x4 / 20x60 | 2500 - 7000 | 20 - 60 |

*3000Lm Example:
BVL2x2-LED840K030LCUNV

| Flange Kits (Ordered Separately) | |
|----------------------------------|----------|
| Size (Width x Length) | Item No. |
| 1x4 | KIT00136 |
| 2x2 | KIT00137 |
| 2x4 | KIT00138 |

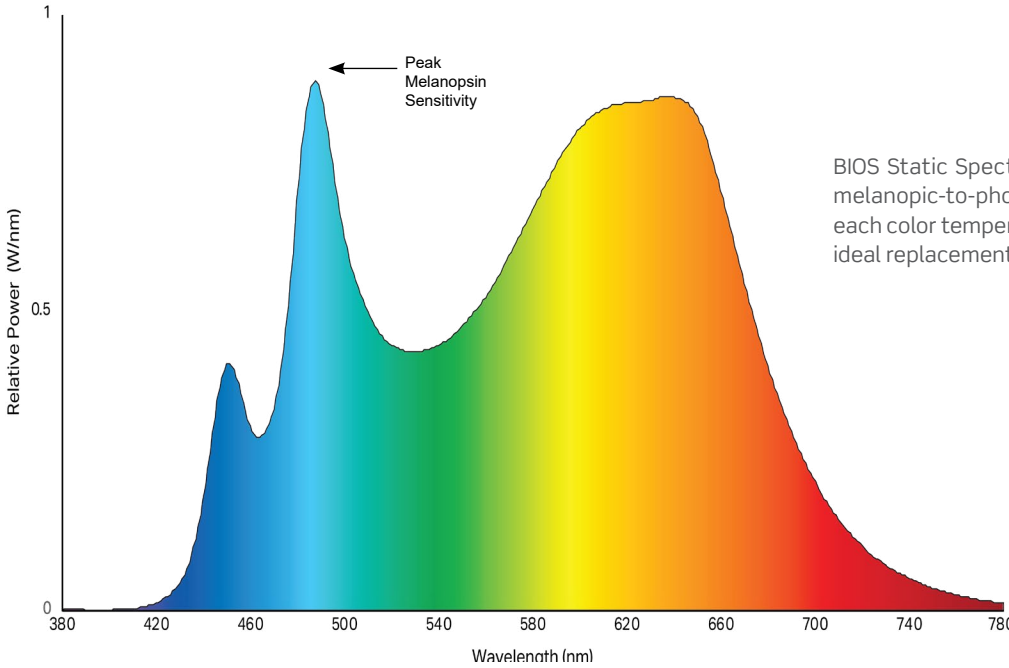
Ordering Key Example

| | |
|----------------------------------|--|
| BVL2x2-LED840K035LUNV-V114(BI02) | <ul style="list-style-type: none"> • Static CCT (4000K) fixture, output dimmable to 1% • SkyBlue™ is always present |
| BVL2x2-LED840K035LUNV-V114(BI03) | <ul style="list-style-type: none"> • 2-Channel Tunable (4000K - 2700K) fixture dimmable to 1% • SkyBlue™ is always present from 4000k-3000k |
| BVL2x2-LED840K035LUNV-V114(BI01) | <ul style="list-style-type: none"> • Single-Channel Bio-Dimming from 4000K with SkyBlue™ to >2700K • At 2700K, dim total output to 1% • At 2700K, SkyBlue™ no longer present |

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BIOS Static Circadian LED Solution - V114 (BI02)

BIOS SkyBlue® Spectrum lighting solutions support proper daytime circadian stimulus, communicating directly with human circadian biology through a non-visual photo receptor in the eye.



BIOS Static Spectrum Light Engine delivers the industry's best melanopic-to-photopic (M/P) ratio, with R9 greater than 90 at each color temperature. BIOS Static Spectrum Light Engine is the ideal replacement for static color light fixtures.

Static Engine Spectral Power Distribution (3500K)

Nominal Performance

| CCT | Melanopic Ratio (M/P) ¹ | CRI | R9 | COI ² |
|-------|------------------------------------|-----|----|------------------|
| 3000K | 0.74 | 81 | 90 | 5.4 |
| 3500K | 0.83 | 84 | 96 | 3.3 |
| 4000K | 0.92 | 84 | 95 | 1.5 |

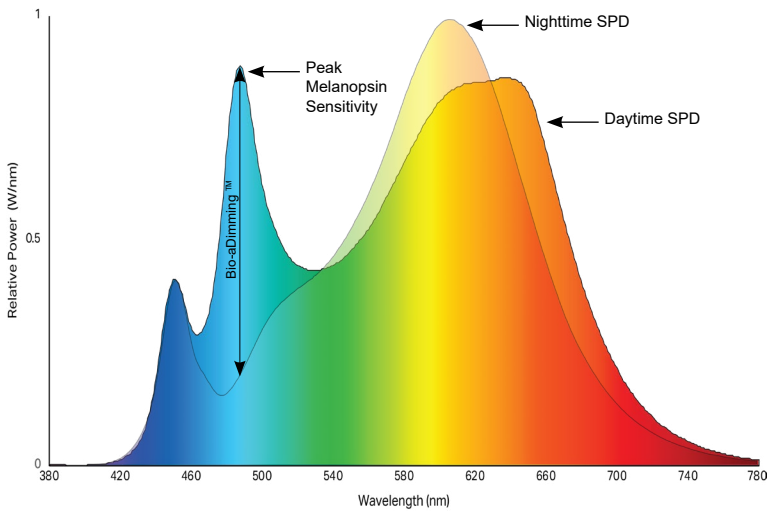
¹ M/P is a ratio that describes the relative melanopic lux (M) versus the photopic lux (P)

² COI - Cyanosis Observation Index

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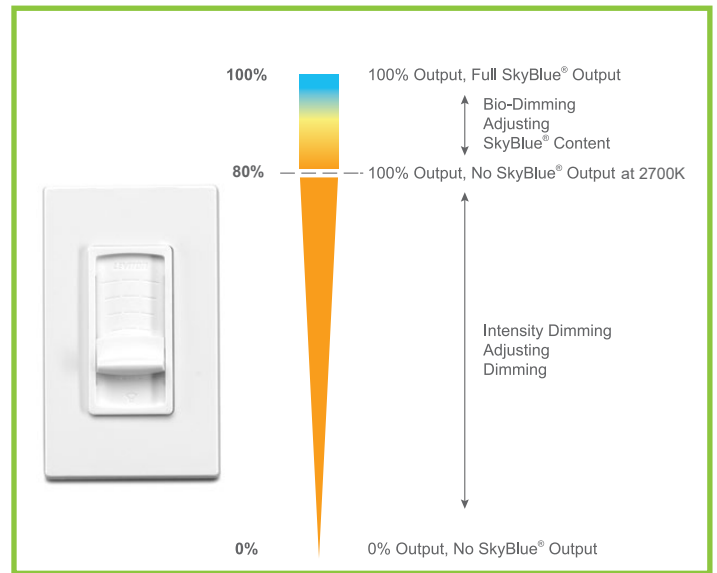
BIOS Dynamic Circadian LED Solution - V114 (BI01)

BIOS SkyBlue® Dynamic Light Engine provides full daytime circadian stimulus and can be dynamically adjusted via the Bio-Dimming™ module. Using a standard single channel 0-10V dimmer reducing melanopic lux while keeping light and CCT constant³. When the SkyBlue® content has been removed (at 2700K), the light level can be adjusted. The Bio-Dimming™ module also detects the preferred light levels over time and will adjust the high end trim of the system to those preferences.



Dynamic Engine Spectral Power Distribution (3500K)

BIOS Dynamic Circadian LED + Bio-Dimming™



Nominal Performance

| CCT | | Melanopic Ratio (M/P) ¹ | | CRI | R9 | COI ² |
|---------|------------|------------------------------------|-------------|-----|----|------------------|
| Daytime | Night-time | Daytime | Nitght-time | | | |
| 3000K | 2700K | 0.74 | 0.47 | 81 | 90 | 5.4 |
| 3500K | 2700K | 0.83 | 0.47 | 84 | 96 | 3.3 |
| 4000K | 2700K | 0.92 | 0.47 | 84 | 95 | 1.5 |

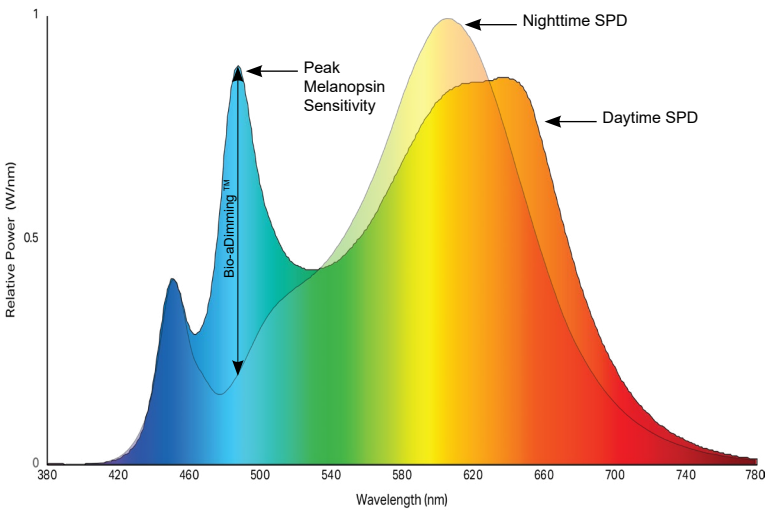
³CCT may vary by up to 500K

⁴Value as shown represents COI provided by daytime LED Spectrum.

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BIOS Dynamic Circadian LED Solution - V114 (BI03)

BIOS SkyBlue® Dynamic Light Engine provides full daytime circadian stimulus and can be dynamically adjusted via tunable circadian LED module. Using a standard two channel 0-10V dimmer reducing melanopic lux and adjusting the output light level while keep CCT constant³. The SkyBlue® below 3000K no longer present. The tunable module also detects the preferred light levels over time and will adjust the high end trim of the system to those preferences.



Dynamic Engine Spectral Power Distribution (3500K)

BIOS Dynamic Tunable Circadian LED (tunable to 2700K)

The diagram illustrates two sliders. The left slider, labeled 'Adjusting SkyBlue® Content', ranges from 0% ('No SkyBlue® Output Below 3000K') to 100% ('Full SkyBlue® Output'). The right slider, labeled 'Intensity Dimming Adjusting Dimming', ranges from 0% ('Light Output') to 100% ('Light Output'). Below the sliders are two physical white slider controls.

Nominal Performance

| CCT | | Melanopic Ratio (M/P) ¹ | | CRI | R9 | COI ² |
|---------|------------|------------------------------------|-------------|-----|----|------------------|
| Daytime | Night-time | Daytime | Nitght-time | | | |
| 3000K | 2700K | 0.74 | 0.47 | 81 | 90 | 5.4 |
| 3500K | 2700K | 0.83 | 0.47 | 84 | 96 | 3.3 |
| 4000K | 2700K | 0.92 | 0.47 | 84 | 95 | 1.5 |

³CCT may vary by up to 500K

⁴Value as shown represents COI provided by daytime LED Spectrum.