

Project:	Catalogue #:	Type:
Notes:		

Product Description

Premium-grade, recessed, lay-in T-Bar luminaire featuring a single piece luminous lens. For use with indoor applications where high-efficiency, high-performance and ease of installation are required. This IC-rated luminaire's low-profile design is ideal for shallow or obstructed plenum applications.

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.

Features

- Ideal for shallow or obstructed plenum applications
- Enhanced, uniform lighting delivers a balanced amount of light to walls, cubicles, work surfaces and people
- Standard low voltage dimming (0-10v, 1%)
- 100% serviceable from below (easy access to driver and LED modules)
- Available in 1x4, 2x2, 2x4 configurations
- No door frame for maximum luminous opening

Featured Options

- Emergency lighting battery pack
- Optional lenses, see ordering key

Optical System

Frosted single-piece Polycarbonate diffuser is standard.

Mounting

This luminaire has been specifically designed for T-Bar applications. Holes provided for chain-mounting support to building structure. Integral earthquake clips for additional support.

Construction

Die-formed and riveted, heavy-gauge steel housing assembly. Precision-formed steel reflector. Wiring access plate 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.

Warranty

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



Approvals

- Approved to CSA/UL standards. UL listed for insulated ceilings
- Tested in accordance to IESNA LM-79
- Suitable for damp locations

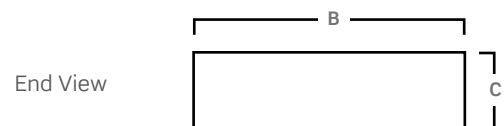
DesignLights Consortium® Qualified, check www.designlights.org/QPL for qualified configurations.



Dimensions



Top View



End View

Size	A	B	C
1x4	47 3/4"	11 3/4"	3 1/2"
2x2	23 3/4"	23 3/4"	3 1/2"
2x4	47 3/4"	23 3/4"	3 1/2"

Consult installation guide for exact dimensions.

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Order Key

EXAMPLE: LRTG2x4- LED840K074LUNV-P94

LRT

G

-

LED

-

P94

Type

Size
(Width x Length)

CRI

CCT

Voltage

Nominal Lumens

Lens

Control

Options

8 - (80+)

30K - 3000K
35K - 3500K
40K - 4000K

UNV - 120-277V
347 - 347V

040L - 4000
037L - 3700
050L - 5000

040L - 4000
050L - 5000
074L - 7400
092L - 9200

P94 - Single Piece Polycarbonate

V114(BI02)
BIOS Static
Circadian LED

V114(BI01)
BIOS Dynamic
Circadian
LED + Bio-Dimming

V114(BI03)
BIOS Dynamic
Tunable
Circadian LED
(tunable to 2700K)

Driver Options

B39 Emergency Lighting Battery Pack - LED

Lens Options

C24 Shield Rectangular Perforated Matte White with
Decorative Lens Rails

C26 Shield Perforated Hole Pattern Matte White with
Decorative Lens Rails

C70 Decorative Lens Rails

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

Flange Kits for hard ceiling installation (Ordered Separately)

Size (Width x Length)	Item No.
1x4	KIT00136
2x2	KIT00137
2x4	KIT00138

Performance Data

LED Performance Data				
Size	Nominal Lumens	Delivered Lumens	Watts	Lumens per Watt
1x4	4000	4255	29	145
2x2	3700	3805	28	137
	5000	5068	39	131
2x4	4000	4255	29	145
	5000	5012	35	143
	7400	7447	54	137
	9200	9236	69	133

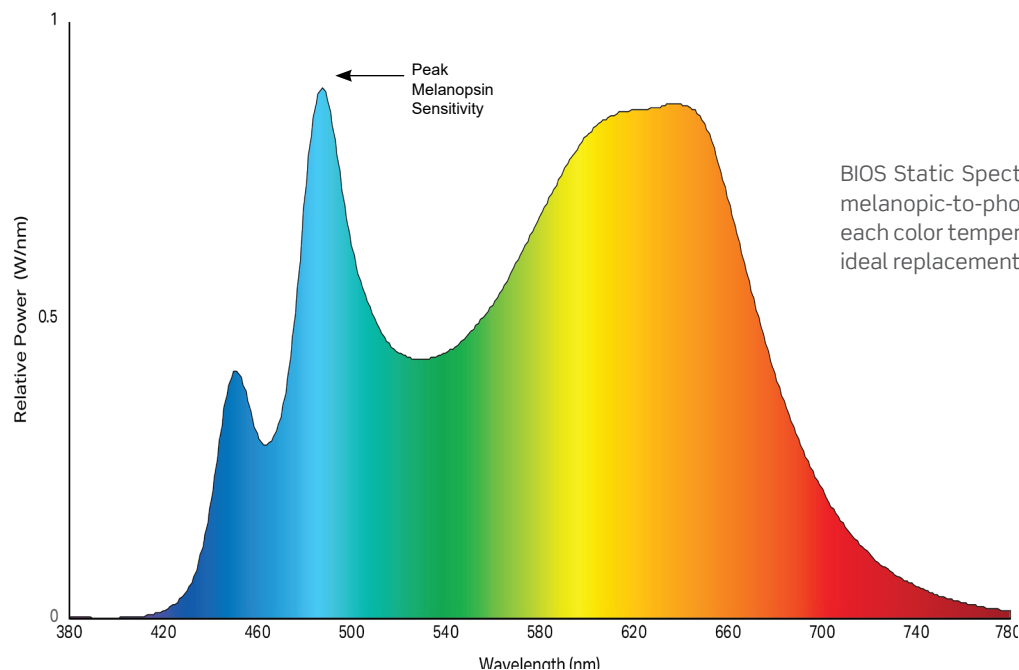
Ordering Key Example

LRTG2x2-LED840K037LUNV-V114(BI02)	• Static CCT (4000K) fixture, output dimmable to 1% • SkyBlue™ is always present
LRTG2x2-LED840K037LUNV-V114(BI03)	• 2-Channel Tunable (4000K - 2700K) fixture dimmable to 1% • SkyBlue™ is always present from 4000k-3000k
LRTG2x2-LED840K037LUNV-V114(BI01)	• 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

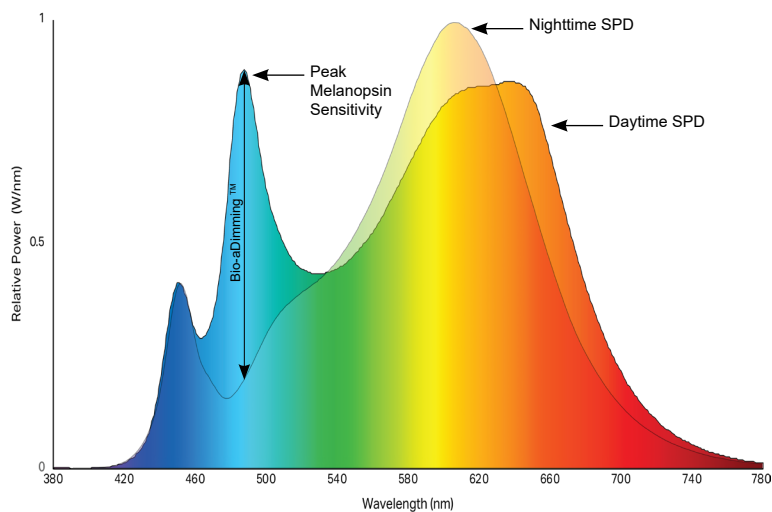
¹ M/P is a ratio that describes the relative melanopic lux (M) versus the photopic lux (P)

² COI - Cyanosis Observation Index

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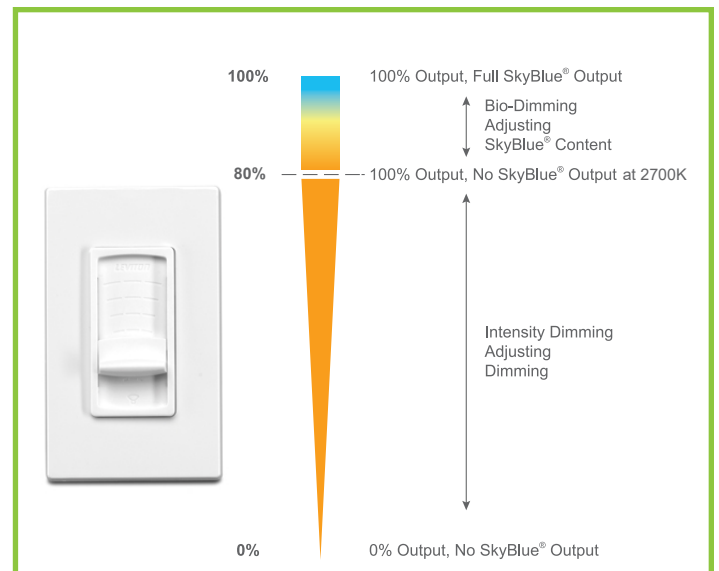
BIOS Dynamic Circadian LED Solution - V114 (BI01)

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

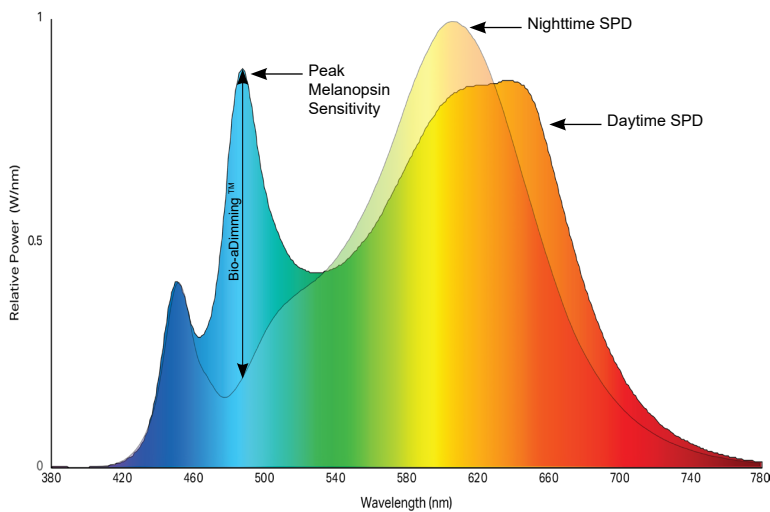
³ CCT may vary by up to 500K

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

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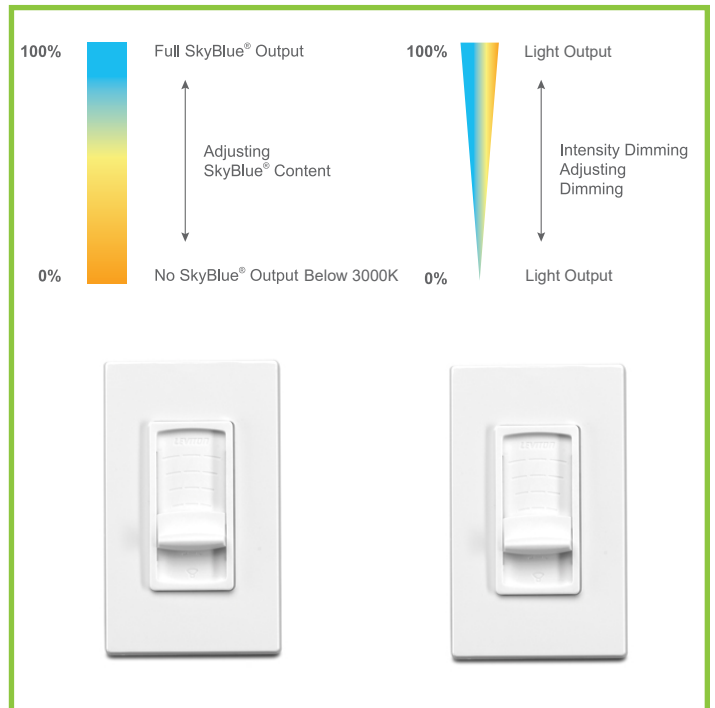
BIOS Dynamic Circadian LED Solution - V114 (BI03)

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)



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.