LED Architectural Premium-Grade Recessed Static Shallow T-Bar Luminaire with BIOS

Project:

Catalogue #:





Notes:

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Туре:

Product Description

Premium-grade, recessed, lay-in T-Bar luminaire featuring asingle piece luminous lens. For use with indoor applicationswhere high-efficiency, high-performance and ease of installationare 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

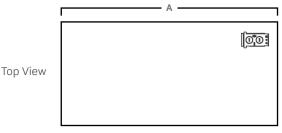
- Approved to CSA/UL standards. UL listed for insulated ceilings
- Tested in accordance to IESNA LM-79
- Suitable for damp locations

 ${\tt DesignLights}\ {\tt Consortium}^{\otimes}\ {\tt Qualified}, {\tt check}\ {\tt www.designlights.org}/{\tt QPL}\ {\tt for}\ {\tt qualified}\ {\tt configurations}.$

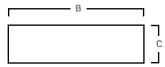








End View



Size	Α	В	С
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"	31/2"

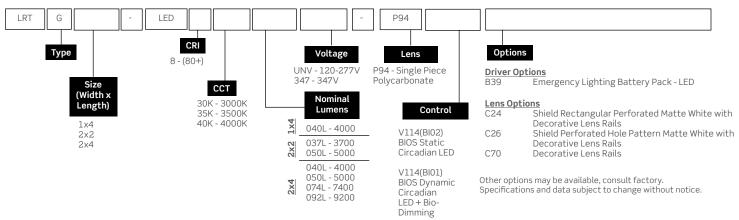
Consult installation guide for exact dimensions.

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Order Key

EXAMPLE: LRTG2x4- LED840K074LUNV-P94



V114(BI03) BIOS Dynamic Tunable

Circadian LED (tunable to 2700K)

Flange Kits for hard ceiling installation (Ordered Separately)			
Size (Width x Length) Item No.			
1x4	KIT00136		
2x2	KIT00137		
2x4	KIT00138		

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Performance Date

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

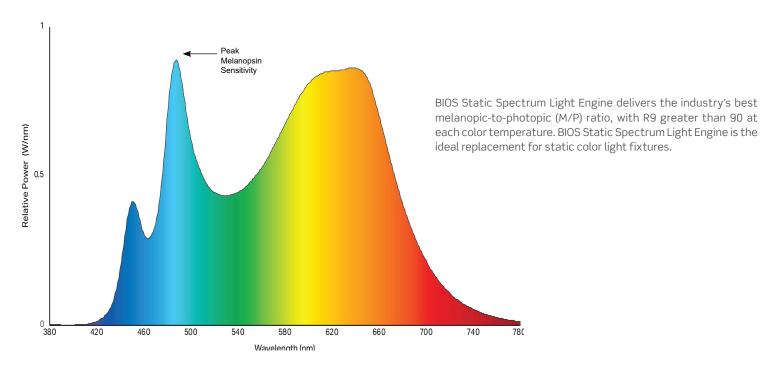
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BIOS Static Circadian LED Solution - V114 (BI02)

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.



Static Engine Spectral Power Distribution (3500K)

Nominal Performance

сст	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

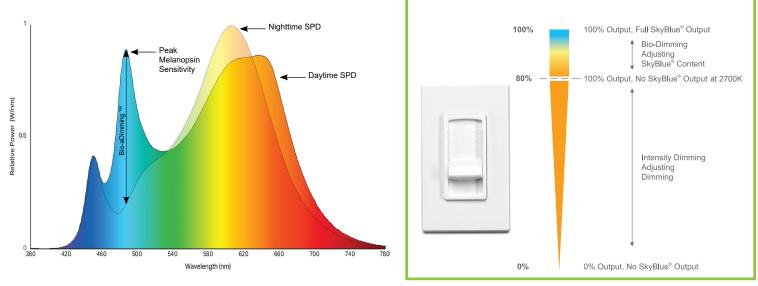
 1 M/P is a ratio that describes the relative melanopic lux (M) versus the photopic lux (P) 2 COI - Cyanosis Observation Index

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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)

Nominal Performance

C	СТ	Melanopic I	Ratio (M/P) ¹	CRI R9	COl ²	
Daytime	Night-time	Daytime	Nitght-time		Kġ	COI
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.

BIOS Dynamic Circadian LED + Bio-Dimming™

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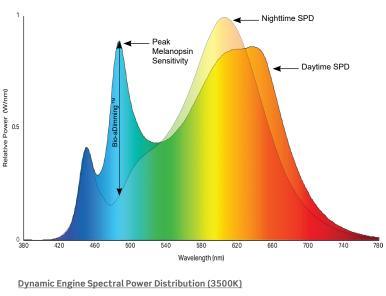
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BIOS Dynamic Circadian LED Solution - V114 (BI03)

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.



100% Full SkyBlue® Output 100% Light Output Adjusting SkyBlue[®] Content Intensity Dimming Adjusting Dimming 0% No SkyBlue® Output Below 3000K Light Output 0%

BIOS Dynamic Tunable Circadian LED (tunable to 2700K)

Nominal Performance

C	СТ	Melanopic I	Ratio (M/P)1	CRI R9	COl ²	
Daytime	Night-time	Daytime	Nitght-time		KS	COI
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.