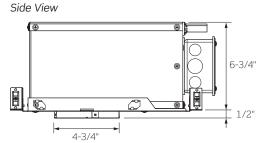
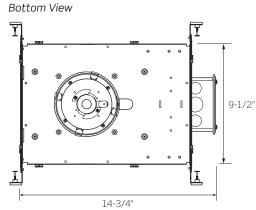


R4IC KB SERIES | 4-Inch Insulated Ceiling (IC)/StopAire™ Housing with BIOS SkyBlue™ Technology



Ceiling Opening: 4-7/8"
Ceiling Thickness: 1/2" - 1-1/2"





	R4SA1	R4SA2	R4SA3	R4SA4		
WATTAGE	12W	15W	21W	30W		
LUMEN OUTPUT ¹	700Lm	900Lm	1300Lm	1800Lm		
COLOR TEMPERATURE / CRI / R9	3000K / 81 CRI / 90 R9					
	3500K / 83 CRI / 95 R9					
	4000K / 83 CRI / 95 R9					
INPUT WATTAGE	12W	16W	21W	30W		
INPUT CURRENT (A) 120V/277V/347V	.08/.04/.03	.12/.06/.04	.17/.08/.06	.23/.11/.08		
INPUT VOLTAGE						
120V - 277V Standard Driver	90-305V AC, 50/60Hz					
347V Standard Driver	347V AC, 50/60Hz					
Lutron Eco-System® Driver	120VAC / 277VAC , 50/60H	l z				
eldoLED ECOdrive / SOLOdrive	120VAC / 277VAC , 50/60H	Hz				
DRIVER POWER FACTOR	> 0.90					
TOTAL HARMONIC DISTORTION (THD)	< 20%					
LISTINGS	cCSAus Certified to UL Sta	andards; Suitable for Damp	Locations			
	Conforms to Washington State Energy Code (WSEC) for Low Air Infiltration; tested in accordance with ASTM E283 (2.0 CRM or less)					
WARRANTY	Five (5) year replacement after date of purchase					
SYSTEM RATING	50,000 Hours @ 70% Lumen Maintenance					

^{1.} Approximate lumen output based on 3000K performance; see photometric test results for additional information





R4IC KB SERIES | 4-Inch Insulated Ceiling (IC)/StopAire™ Housing with BIOS SkyBlue™ Technology

ORDERING INFORMATION

Example Order:

R4IC130KBMVDBT

Housing/LED Series	Color Temp	Dimming	BIOS Protocol
R4IC1 - 12W/700lm	30KB - 3000K	MVD ² - 120 - 277V TRIAC/ELV/0 - 10V	BT - BIOS Tunable Dimming
R4IC2 - 15W/900lm	35KB - 3500K	34D2 - 347V 0 - 10V Dimming	BS - BIOS Static Dimming
R4IC3 - 21W/1300lm R4IC4 - 30W/1800lm	40KB - 4000K	MVD4 - Lutron Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black	
		MVD6 ² - 120 - 277V eldoLED ECOdrive 0 - 10V, 1% Dimming	
		MVD7 ² - 120 - 277V eldoLED ECOdrive DALI, 1% Dimming	
		MVD8 ² - 120 - 277V eldoLED SOLOdrive 0 - 10V, 0.1% Dimming	
		MVD9 ² - 120 - 277V eldoLED SOLOdrive DALI, 0.1% Dimming	

 $^{1. \ \}mathsf{TRIAC} \ \mathsf{and} \ \mathsf{ELV} \ \mathsf{Dimming} \ \mathsf{for} \ \mathsf{120V} \ \mathsf{only}$

Accessories Standard Hanger Bars Supplied with Housing HB-30 - T-Bar Hanger Set See "Trims for 4-Inch BIOS Downlights" Specification Sheet for compatible Trim information and details

^{2.} eldoLED Drivers are programmed for Linear Curve Dimming as standard; for Logarithmic Curve Dimming, consult factory



R4IC KB SERIES | 4-Inch Insulated Ceiling (IC)/StopAire™ Housing with BIOS SkyBlue™ Technology

PRODUCT DETAILS

Construction

- 4-Inch Specification Grade 16 Gauge Galvanized Steel Insulated Ceiling (IC)/StopAire™ Housing with Die-Cast Aluminum Heat Sink
- For use in applications with direct contact with insulation materials
- Quick Connect Light Engine; Drivers are fully accessible from below the ceiling
- Dual Nailer Hanger Bars are adjustable for 16- and 24-inch center joists (14-1/4 to 24-1/2 inch). Nailer Bars may be extended to rest on T-Bar ceilings; optional clip-on T-Bar Hangers available.
- Pre-wired Junction Box with eight (8) 1/2-inch Knockouts
- Output over-voltage, over-current and short circuit protection
- Approved for Through Circuit Wiring: max. eight (8) 12 AWG (4in/4out), wiring rated to 90°C

Performance Summary

- All R4 Downlights are available for non-dimming and dimming applications; for compatible Dimmers, refer to the Dimming Specification Sheet
- Flanged or Trimless Specification Grade Trims; See "Trims for 4-Inch BIOS LED Recessed Downlights" Specification Sheet for compatible trim information and details
- Trimless options require use of a Mud Frame (MF4, ordered separately) for securing housing and trim in 1/2- to 1-inch thick ceilings only
- Trimless options cannot be used with Remodel Housings (R4RM) or Slope Ceiling Adapters (RSA4L Series)
- UL8750 and Class 2 Compliant; RoHS Compliant, US only

BIOS SKYBLUE LED TECHNOLOGY DETAILS

- BIOS SkyBlue™ Circadian Lighting Technology brings the benefits of blue skies inside by emulating the makeup of nature's light spectrum.
- Light sends signals to the body that create biological responses, many associated with the body's circadian system. These responses impact mood, hormone production, energy levels, alertness, fatigue and more.
- This biological response to light can be measured by the melanopic (non-visual) to photopic (visible) ratio called the M/P ratio. During the day, a high M/P ratio is optimal, while at night a low M/P ratio is best.
- BIOS LEDs provide high daytime stimulus by pin-pointing the peak sensitivity of the "sky blue" visible light spectrum wavelengths, approx. 490nm, needed to effectively communicate and trigger circadian response.

			MELANOPIC I	RATIO (M/P) ¹
CCT	CRI	R9	DAY	NIGHT ²
3000K	81	90	0.74	0.47
3500K	83	95	0.83	0.47
4000K	83	95	0.92	0.47

- The Melanopic Ratios (M/P) provided have been calculated using the WELL v2 Methodology
- 2. 2700K CCT with SkyBlue (490nm) removed during Nighttime. Available only for Tunable BioDimming™, not available for Static BioDimming™

BIOS BIO-DIMMING™

The BIOS Bio-Dimming Modules deliver a completely customizable and spectrally-modulated light source. Two Modules are available, Tunable or Static, depending on desired performance, and can be used with any standard dimming interface.

Tunable Bio-Dimming™ is best suited for 24-hour facilities or evening applications, where full light output is desired as the day progresses, but also there is also the need to minimize circadian impact in the evening.

When dimming, the sky blue wavelengths are removed first, resulting in a modest color temperature shift to 2700K. This occurs within the first 20% of the dimming profile, the remainder of the dimming profile reduces light output, providing a standard linear reduction of the sky blue depleted spectrum.

TUNABLE BIO-DIMMING PROTOCOL								
DIMMER LEVEL	ССТ	SKYBLUE %	LIGHT OUTPUT					
100%	Initial CCT 3000K/3500K/4000K	100%	100%					
99% - 81%	Gradual Shift down to 2700K	100% - 0%	100%					
80%	2700K	0% No SkyBlue Wavelengths	100%					
79% - 0%	2700K	0% No SkyBlue Wavelengths	Linear Dimming					

Static Bio-Dimming™ supports proper daytime circadian stimulus, best suited for day-only applications.

A steady, invisible, sky blue signal boost to white light is delivered throughout the day for high daytime circadian stimulus. When dimming, these sky blue wavelengths remain as overall light intensity is dimmed down.

STATIC BIO-DIMMING PROTOCOL								
DIMMER LEVEL	LIGHT OUTPUT							
100%	Initial CCT 3000K/3500K/4000K	100%	100%					
99% - 0%	Initial CCT 3000K/3500K/4000K	100%	Linear Dimming					



TYPE DATE **PRO IFCT**

R4 KB SERIES | 4-Inch Downlights with BIOS SkyBlue™ Technology **Photometrics**

PHOTOMETRICS

R4*535KB12DBS / C4322M-CLR: 4-Inch Downlight, Medium Beam, Clear Reflector

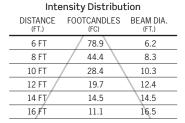
LM-63 Test No. G21092801; LM-79 Test No. S21093002

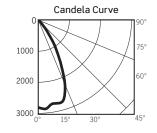
Fixture Delivered Lumens: 2240.8 Total Watts@120V: 38.5 Lumens Per Watt: 58.2 Center Beam Candle Power: 2841 Beam Distribution: 54.7° Spacing Criterion: 0.84

Color Rendering Index (CRI)1: 84.8 Color Temperature (CCT)2: 3241K

Peak Sensitivity: 490nm R9 Value: 93.2

Designed for 50,000 Hour Lamp Life³







R4*535KB12DBS / C4322W-CLR: 4-Inch Downlight, Wide Beam, Clear Reflector

LM-63 Test No. G21092802; LM-79 Test No. S21093002

Fixture Delivered Lumens: 2259.6 Total Watts@120V: 38.5 Lumens Per Watt: 58.7 Center Beam Candle Power: 1118 Beam Distribution: 82.0° Spacing Criterion: 1.25 Color Rendering Index (CRI)1: 84.8

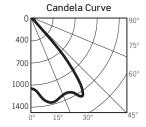
Color Temperature (CCT)2: 3241K Peak Sensitivity: 490nm

R9 Value: 93.2

Designed for 50,000 Hour Lamp Life³

Intensity Distribution

	DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIA. (FT.)
Ī	6 FT	31.1	10.4
	8 FT	17.5	13.9
Ι	10 FT	11.2	17.4
	12 FT /	7.8	20.9
	14 FT/	5.7	24.3
	16 FT	4.4	27.8



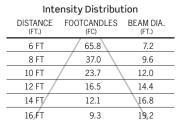


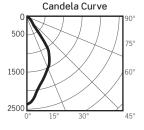
R4*535KB12DBS / C4322-PL: 4-Inch Downlight, Platinum Reflector

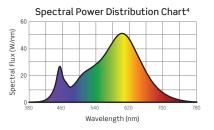
LM-63 Test No. G21092803: LM-79 Test No. S21093002

Fixture Delivered Lumens: 2006.3 Total Watts@120V: 38.5 Lumens Per Watt: 52.1 Center Beam Candle Power: 2371 Beam Distribution: 62.1° Spacing Criterion: 0.92 Color Rendering Index (CRI)1: 84.8 Color Temperature (CCT)2: 3241K Peak Sensitivity: 490nm R9 Value: 93.2

Designed for 50,000 Hour Lamp Life³







1. Accuracy of Rendering Colors 2. Color Appearance of Light Source 3. Dependent on Surrounding Temperatures 4. Colors Present within the Light Source

PHOTOMETRIC MULTIPLIERS

Lumen output values fluctuate based on Color Temperature (CCT), Color Rendering Index (CRI) and Wattage. To estimate lumen output of other combinations, multiply the published results by the following factors:

CCT MULTIPLIERS					
CCT	STANDARD CRI				
3000K	0.95				
3500K	N/A				
4000K	1.05				

OUTPUT MULTIPLIERS						
SERIES 1	SERIES 2	SERIES 3	SERIES 4			
0.31	0.43	0.61	0.81			

TRIM MULTIPLIERS							
C4322W-CLR	C4322-PL	C4322-WHT	C4322DF-SL	C4323-CLR			
1.01	0.90	0.92	0.67	0.51			





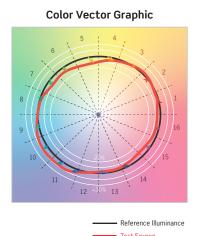
R4 KB SERIES | 4-Inch Downlights with BIOS SkyBlue™ Technology Photometrics

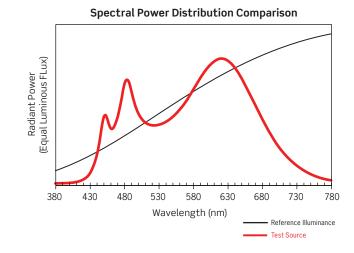
PHOTOMETRICS: TM-30 DATA

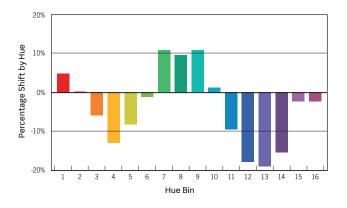
R4*535KB12DBS / C4322M-CLR

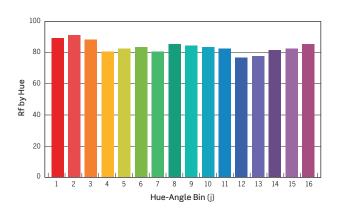
ANSI/IES TM-30-18 Color Rendition Report Test No. S21093002

R_f 86 R_g 96 CCT(K) 3241K D_{uv} -0.0098 u¹ 0.2468 v¹ 0.5032









HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	4%	0%	-5%	-11%	-7%	-1%	9%	8%	9%	1%	-8%	-15%	-16%	-13%	-2%	-2%
R _f VALUE	91	93	90	82	84	85	82	87	86	85	84	78	79	83	84	87

Colors are for visual orientation purposes only





R4 KB SERIES | Trims for 4-Inch LED Downlights with BIOS SkyBlue™ Technology

FLANGED TRIM OPTIONS

I company



C4321-WHT-PLWhite Reflector/Platinum Lower Cone



C4321 Cone Series Two Piece Reflector: Lower Cone and Flat Lens

3-7/8-Inch ID; 5-11/16-Inch OD. 3-1/8-Inch H

Two Piece Reflector: Upper Reflector with Lower Cone. Includes one (1) LF20-CL Clear Glass Lens. Approved for Wet Locations when Glass Lens is installed.



C4321-WHT-B White Reflector/Black Baffle



C4321 Baffle Series

Two Piece Reflector: Lower Baffle and Flat Lens

3-7/8-Inch ID; 5-11/16-Inch OD. 3-1/8-Inch H

Two Piece Reflector: Upper Reflector with Lower Baffle. Includes one (1) LF20-CL Clear Glass Lens. Approved for Wet Locations when Glass Lens is installed.

Reflector C4321-CLR - Clear C4321-WHT - White Lower Cone CLR - Clear PL - Platinum Reflector C4321-CLR - Clear C4321-WHT - White Lower Baffle **B** - Black

P - White



C4327-CLR-PL
Clear Reflector/Platinum Lower Cone/
Regressed Prismatic Convex Lens



C4327 Cone Series

Two Piece Reflector: Lower Cone with Prismatic Convex Lens

3-7/8-Inch ID; 5-11/16-Inch OD. 3-1/8-Inch H

Two Piece Reflector with Lens: Upper Reflector with Lower Cone and Prismatic Convex Lens. Lens has 1-1/2-inch regress. Wet Location Listed.



C4327-CLR-P

Clear Reflector/White Lower Baffle/ Regressed Prismatic Convex Lens



C4327 Baffle Series

Two Piece Reflector: Lower Baffle with Prismatic Convex Lens

3-7/8-Inch ID; 5-11/16-Inch OD. 3-1/8-Inch H

Two Piece Reflector with Lens: Upper Reflector with Lower Baffle and Regressed Prismatic Convex Lens. Lens has 1-1/2-inch regress. Wet Location Listed.

Reflector C4327-CLR - Clear C4327-WHT - White Lower Cone CLR - Clear PL - Platinum

C4327-CLR - Clear C4327-WHT - White

Reflector

Lower Baffle

B - Black **P** - White



C4322 - PL Platinum Reflecto



C4322 Series

Specification Grade Reflector 4-3/8-Inch ID, 5-11/16-Inch OD, 3-1/8-Inch Height

Specification Grade Reflector. For Wet Location approved trim, add "-C" for Clear Lens or "-SL" for Sandblast Lens after finish code.



C4322DF-SL Satin Silver Painted Reflector



C4322DF Series

ISOWET Dead Front Reflector Trim 4-3/8-Inch ID, 5-11/16-Inch OD, 3-1/8-Inch Height

Isolated, Wet Location approved Thermoplastic Reflector with Clear Glass Lens deeply regressed inside top of Reflector.

C4322N-CLR* - 35° Narrow Beam Clear Specular Reflector
C4322M-CLR* - 51° Medium Beam Clear Specular Reflector
C4322W-CLR* - 80° Wide Beam Clear Specular Reflector

C4322-PL* - 59° Platinum Reflector
C4322-PLWHE - 59° Platinum Wheat Reflector
C4322-WHT - 70° White Reflector

*Available with White Panted Flange, add "-WPF" to end of part number

REV0824

C4322DF-SL* - Satin Silver Paint **C4322DF-WHT** - Matte White Paint

*Available with White Panted Flange, add "-WPF" to end of part number



CATALOG NO.

DATE PROJECT TYPE

R4 KB SERIES | Trims for 4-Inch LED Downlights with BIOS SkyBlue™ Technology

FLANGED TRIM OPTIONS, CONTINUED



C4323 Series Lensed Wall Wash Reflector Trim 4-Inch ID; 5-11/16-Inch OD

C4323-CLR Clear Reflector



CTR4325L-WHT-P
Floating Glass Disc White Reflector



CTR4326L-CLR-P Floating Glass Ring Clear Reflector

C4323-CLR* - Clear Reflector C4323-PL* - Platinum Reflector

C4323-WHT - White Reflector

*Available with White Panted Flange, add "-WPF" to end of part number

CTR432*L Series

Floating Glass Reflector 4-3/8-Inch ID; 6-Inch OD

White Reflector with Floating Glass Disc, Clear Reflector with Floating Glass Ring; 1-1/4-inch drop from ceiling. Glass Ring has 3-1/2-inch center hole.

CTR4325L-WHT-P - Floating Glass Disc/White Reflector **CTR4326L-CLR-P** - Floating Glass Ring/Clear Reflector

TRIMLESS OPTIONS

Trimless Options require use of Mud Frame accessory (MF4, ordered separately)



CN4322 * - CLR Specular Clear Reflector Multiple Beam Spreads



CN4322 Series Specification Grade Trimless Reflector

4-3/8-Inch ID; 4-3/4-Inch OD. 4-3/8-Inch H

Specification Grade Specular Reflector.

Trim cannot be used on Remodel
Housings (R4RM) or with Slope Ceiling
Adapters (RSA4L). For use with 1/2- to
1-inch ceiling thicknesses only. For
Wet Location approved trim, add "-C" for
Clear Lens or "-SL" for Sandblast Lens
after finish code.



CN4323-PL Platinum Reflector

CN4323 Series

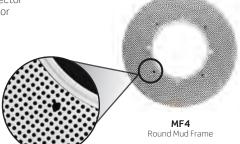
Trimless Lensed Wall Wash Reflector Trim 4-Inch ID: 4-3/4-Inch OD

Trim cannot be used on Remodel Housings (R4RM) or with Slope Ceiling Adapters (RSA4L). For use with 1/2- to 1-inch ceiling thicknesses only.

CN4323-CLR - Clear Reflector CN4323-PL - Platinum Reflector CN4323-WHT - White Reflector

CN4322N-CLR - 35° Narrow Beam Clear Specular Reflector CN4322M-CLR - 51° Medium Beam Clear Specular Reflector CN4322W-CLR - 80° Wide Beam Clear Specular Reflector

CN4322-PL - 59° Platinum Reflector - 70° White Reflector



MF4 Series Round Mud Frame

Required for use with trimless options. Die-cast Ring with Steel Mesh Frame. Painted white.

MF4 - 4-Inch Mud Frame





R4 and R6 LED Downlights with BIOS SkyBlue™ Circadian Lighting Technology

PRODUCT DETAILS

Dynamic 24-Hour Lighting Solutions to Regulate Circadian Systems and Create Healthier Spaces

BIOS SkyBlue™ Circadian Lighting Technology brings the benefits of blue skies inside by emulating the makeup of nature's light spectrum.

Light sends signals to the body that create biological responses, many associated with the body's internal 24-hour clock, or circadian system. These signals can impact mood, hormone production, energy levels, alertness, fatigue and more.

BIOS LEDs are expertly designed to generate psychological and biological responses, offering the most comprehensive approach to wellness lighting. BIOS LEDs provide high daytime stimulus by pin-pointing the peak sensitivity of the 'sky blue' visible light spectrum wavelengths, approx. 490nm, needed to effectively communicate and trigger circadian response.

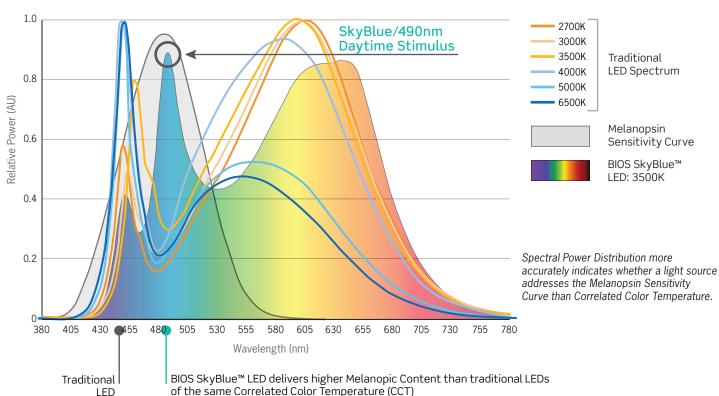
BIOLOGICAL BENEFITS

- Strengthens Your Circadian Rhythm
- Increases Alertness
- Enhances Productivity
- Boosts Mood
- Promotes a Better Night Sleep

PERFORMANCE COMPARISONS

Spectral Power Composition and M/P Ratios: BIOS SkyBlue™ LED Compared to Traditional LEDs

The body's biological response to light can be measured by the melanopic (non-visual) to photopic (visible light) ratio called the M/P ratio. During the day, a high M/P ratio is optimal, while at night a low M/P ratio is best.



For additional information, visit www.bioslighting.com





R4 and R6 LED Downlights with BIOS SkyBlue™ Circadian Lighting Technology

CIRCADIAN LIGHTING SOLUTIONS: TUNABLE AND STATIC BIO-DIMMING™ MODULES











Tunable Bio-Dimming™ Module

- Senior Living
- Hospitality
- Factories
- Residential
- Neonatal Intensive Care Unit/NICU

BIOS SkyBlue **Tunable** Bio-Dimming is best suited for 24-hour facilities or evening applications, where full light output is desired as the day progresses, but also a need to minimize circadian impact in the evening.

When dimming, the sky blue wavelengths are removed first, resulting in a modest color temperature shift to 2700K. This provides both psychological and biological benefits without a harsh change in CCT. This shift occurs within the first 20% of the dimming profile.

In the remaining 80% of the dimming profile, light output is reduced, enabling a standard linear reduction of the sky blue depleted spectrum.

Tunable Bio-Dimming adds the ability to fine-tune and dim-down the sky blue signal as desired, calibrate light levels and regulate spectral changes.

Compatible with all standard dimming and control protocols, making installation easy and inexpensive.

Static Bio-Dimming™ Module

- Schools
- Sports Facilities
- Offices
- Retail
- Healthcare Facilities
- Outpatient Clinics
- Factories

BIOS SkyBlue **Static** Bio-Dimming supports proper daytime circadian stimulus, best suited for day-only applications.

- Color of light remains constant throughout the day:
- 490nm 'Blue Boost' does not reduce during the day
- Apparent CCT of 3000K, 3500K or 4000K remains constant
- High Melanopic to Photopic (m/p) ratio:
- While m/p ratio will remain constant if light level is dimmed, EML (Equivalent Melanopic Lux) and CS (Circadian Stimulus) values will be affected due to reduced vertical illuminance

A steady, but invisible, sky blue signal boost to white light is delivered throughout the day for high daytime circadian stimulus. When dimming, these sky blue wavelengths remain as overall light intensity is dimmed down.

Compatible with all standard dimming and control protocols, making installation easy and inexpensive.

BIO-DIMMING™ PROTOCOLS

TUNABLE BIO-DIMMING PROTOCOL									
DIMMER LEVEL	ССТ	SKYBLUE %	LIGHT OUTPUT						
100%	Initial CCT 3000K/3500K/4000K	100%	100%						
99% - 81%	Gradual Shift down to 2700K	100% - 0%	100%						
80%	2700K	0% No SkyBlue Wavelengths	100%						
79% - 0%	2700K	0% No SkyBlue Wavelengths	Linear Dimming						

STATIC BIO-DIMMING PROTOCOL								
DIMMER LEVEL	MMER LEVEL CCT SKYBLUE % LIGHT OUTPU							
100%	Initial CCT 3000K/3500K/4000K	100%	100%					
99% - 0%	Initial CCT 3000K/3500K/4000K	100%	Linear Dimming					

For additional information, visit www.bioslighting.com

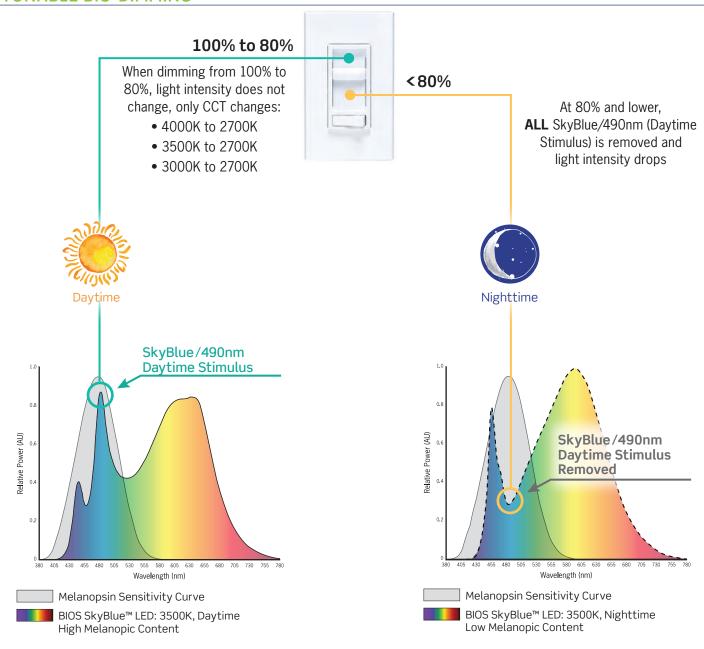






R4 and R6 LED Downlights with BIOS SkyBlue™ Circadian Lighting Technology

TUNABLE BIO-DIMMING™



For additional information, visit www.bioslighting.com





R4 and R6 LED Downlights with BIOS SkyBlue™ Circadian Lighting Technology

WELL BUILDING STANDARDS

BIOS SkyBlue™ LED contributes to satisfying Circadian Lighting Design Features and meets other features within the WELL Light Concept, including color quality and visual comfort metrics; helping buildings deliver more thoughtful and intentional spaces that enhance human health and well-being.

Circadian Lighting Design

WELL v2™ Feature L03

Provide users with appropriate exposure to light for maintaining circadian health and aligning the circadian rhythm with the day-night cycle

*EML (Equivalent Melanopic Lux) is a measurement of the effect of both natural and electric light on the human circadian rhythm.

BIOS SkyBlue[™] **LED**



Maintains Lighting Design Intent

- Highest M/P Ratio for a given CCT
- Most effective technology to help meet EML* vertical light requirements

Traditional White LED



Increase Fixture Quantity

- More luminaires required to achieve higher light levels on vertical surfaces
- Increases energy use and lighting power density within the space

Glare Control

WELL v2™ Feature L04

Manage glare by using strategies, such as calculation of glare and choosing the appropriate light fixtures for the space



Visually Comfortable / Energy Efficient

- Higher M/P Ratio means fewer luminaires needed to illuminate the space
- Naturally minimizes amount of glare



Increase Glare / Increase Energy

- Higher output luminaires are needed within the space to meet EML targets
- Increases energy use
- Probability of increased glare and visual discomfort in the space

Electric Light Quality

WELL v2™ Feature L07

Develop and implement strategies to create a visually comfortable lighting environment



Desirable CCT / Great Color Quality

- 80+ CRI
- Ultra High R9 (>90)



Increase CCT / Decrease Color Quality

- Higher CCTs (5000K, 6500K) required to achieve the target EML values
- Does not meet R9 requirements



R4 KB SERIES | 4-Inch LED Downlights with BIOS SkyBlue™ Technology Dimming Specifications

- Incandescent 120VAC Dimmers adjust the light with Forward Phase Control, where the Dimmer "chops" the forward part of the AC Wave to deliver less or more power to the light source. No Neutral Wire Connection required.
- Electronic Low Voltage 120VAC Dimmers adjust the light with Reverse Phase Control, where the Dimmer "chops" the back part of the AC Wave to deliver less or more power to the light source. Neutral Wire Connection required.
- 0-10V DC Low Voltage Dimmers operate using two (2) Low Voltage Dimming Wires that are separate from the 120VAC or 277VAC power. The Dimmer sends a Variable Output Voltage to the luminaire based upon the dimming level. 10V Corresponds to undimmed operation, 5V to 50% and so on. Switching On/Off is controlled with the line voltage power (120VAC or 277VAC) input to the Dimmer. Dimming operation is controlled with the 0–10V DC Low Voltage Wiring Connection between the Dimmer and the LED Driver. The Control Signal runs on two (2) low voltage control wires color coded Violet and Pink.
- Lutron EcoSystem Drivers provide continuous dimming from 1%–100%. For a complete list of compatible Dimmers and Controls, visit www.lutron.com.
- Use DALI approved Controls for dimming eldoLED ECOdrive, 1% Dimming (Dimming Option D7 or MVD7) and eldoLED SOLOdrive, 0.1% Dimming (Dimming Option D9 or MVD9).

			TRIAC, ELV, 0-10V DIMMING (12D, 27D or MVD Option*)	eldoLED ECOdrive 0-10V (12D6, 27D6 or MVD6 Option)	eldoLED SOLOdrive 0-10V (12D8, 27D8 or MVD8 Option)
Manufacturer	Product	Model	Light Output	Light Output	Light Output
Leviton	IllumaTech	IPI06-1LZ	1%-100%	N/A	N/A
Leviton	SureSlide	6631-2	1%-100%	N/A	N/A
Leviton	Vizia	VPE06	9%-100%	N/A	N/A
Leviton	Trimatron	6683-IW	6%-100%	N/A	N/A
Leviton	Decora	6161	15%-100%	N/A	N/A
Leviton	SureSlide	6633-P	1%-100%	N/A	N/A
Leviton	IllumaTech	IPE04	6%-100%	N/A	N/A
Leviton	IllumaTech	IP710-DLX	N/A	1%-100%	0.1%-100%
Cooper	Devine	DLC03P	1%-100%	N/A	N/A
Cooper	Skye	SLC03P	0%-100%	N/A	N/A
Cooper	Decorator	DAL06P	0%-100%	N/A	N/A
Pass & Seymour	Titan	CD4FB-W	N/A	1%-100%	0.1%-100%
Synergy		ISD BC	N/A	1%-100%	0.1%-100%
Watt Stopper	Miro Decorator	DCLV1	N/A	1%-100%	0.1%-100%
Lutron	Ariadni	TGCL-153P	1%-100%	N/A	N/A
Lutron	Ariadni	TG-600P	13%-100%	N/A	N/A
Lutron	Diva	DVCL-153P	1%-100%	N/A	N/A
Lutron	Diva	DV600P	6%-100%	N/A	N/A
Lutron	Diva	DVELV303P	6%-100%	N/A	N/A
Lutron	Diva	DVTV	N/A	1%-100%	0.1%-100%
Lutron	Faedra	FAELV500	12%-100%	N/A	N/A
Lutron	Lumea	LG600P	8%-100%	N/A	N/A
Lutron	Maestro	MAELV600	16%-100%	N/A	N/A
Lutron	Nova	NFTV	N/A	1%-100%	0.1%-100%
Lutron	Nova T	NTFTV	N/A	1%-100%	0.1%-100%
Lutron	Skylark	S-603PG	5%-96%	N/A	N/A
Lutron	Skylark	S600P	5%-100%	N/A	N/A
Lutron	Skylark	SELV300P	10%-100%	N/A	N/A
Lutron	Skylark	CT103P	9%-100%	N/A	N/A

*277V Triac Dimming is not available

NOTES

- 1. Testing was performed with a single luminaire connected to Dimmer.
- 2. Testing has been performed on these Dimmers, but this does not imply any warranty of compatibility.
- 3. Dimming performance can be influenced by different Loads, as well as variations in Dimmer Switches within the same Model.
- 4. Dimmer Maximum Load Rating with LED may differ from published Traditional Source Dimmer Ratings. Consult manufacturer for maximum Dimmer information.
- 5. Consult factory for additional dimming information.