M. OMX DALI TRUCOLOR™ RGBTW

48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS



REV 06.27.25



DESCRIPTION

Experience the radiance of Luca 3.5, a cutting-edge downlight that embodies its Latin namesake as the "Bringer of Light," a testament to the latest advancements in cutting-edge lighting technology, delivering high performance solutions designed to elevate hospitality, retail, commercial, and discerning residential spaces. Our Luca downlights distinguish themselves with precision optics and exceptional color rendering with <u>TruColor[™] RGBTW</u>.

Our Luca 3.5 TruColor[™] used with the PureEdge Unity 2 seamlessly integrates into all major Home Lighting Systems. Unlock the full potential of Luca's extensive color palette. Elevate your lighting experience with superior output, energy efficiency, smart control, and exceptional color consistency.

The Luca Downlight series delivers captivating illumination across a wide spectrum, creating a visually engaging experience within any space. With its extensive range of design and installation options, our Luca 3.5 Downlight is versatile for a wide array of new construction and remodel applications. Moreover, the compact form factor of the Luca 3.5 allows for installation in spaces with limited clearance.

Discover a new era of lighting performance and versatility, where superior optics, lumen performance, and outstanding color consistency converge to transform a space. For personalized quotes and expert layout assistance, share your drawings and concepts with our design team at <u>design@</u> <u>PureEdgeLighting.com</u>



Join us in creating a brighter and more sustainable world with Luca 3.5, the ultimate "Bringer of Light."

TRUCOLOR[™] RGB & TUNABLE WHITE LIGHT ENGINE

Pure Smart TruColor[™] technology uses five channels of tunable LEDs, composed of RGBTW red, blue, green, and Tunable White (1500K-6500K). With our precision-engineered proprietary color mixing, we produce one of the widest, most accurate spectrums available, giving our customers access to the warm glow of the sunset (1500K-2400K golden hour) to the pure white light of the mid-day sun (5700K) and everything in between. TruColor™ LED's achieve an average CRI-Color Rendering Index of 92+ and a Duv of +-.0020 in relation to the blackbody curve at any point on the spectrum of tunable white CCT. Dynamic Color Changing functionality provides millions of possibilities for intricate customization, rich saturated secondary colors, and unprecedented ease of installation, making RGBTW the ideal choice for residential and commercial applications. TruColor RGBTW adds more than just decorative flexibility; it also helps to support a healthy Circadian Rhythm and well-being. Let **TruColor**™ transform your space and the people within it. Experience the difference in white light with **TruColor**[™]. Transform both cherished and everydav items into vibrant masterpieces with PureEdge Lighting's unique ability to customize the colors within white light at specific correlated color temperatures (CCT). By adjusting the composition of white light, TruColor[™] enhances the vividness and lifelike quality of colors, enabling you to envision light that brilliantly accentuates objects, materials, and artwork.

SPECIFICATIONS

OPTIONS	Trim, Trimless, Round, Square, for both Fixed & Adjustable 30° Tilt, 360 Rotation			Keypads from:
ADJUSTABLE			CONTROLS	Lutron, Crestron, Vantage, Elan, Savant, Control 4, RTI,URC, Bit Wise, and Compass Control
OPTICS	Field Adjustable - 20°, 30°, 45°, 55° With Soft Diffusing Film		SYSTEM	Gateway Unity 2
WATTAGE (NOMINAL)	14W	19W	DIMMING	Dimmable from 100% - 0.1%
LUMENS @ 3000K, 30 Degrees	700Lm	933Lm	POWER SUPPL	Y 48 Volt Power Supply
EFFICACY	60Lm/W 60Lm/W		CUT OUT SIZE	Round: Ø 4" Square: 4"
CCT	16 Million Colors RGBTW, CCT 1500K-6500K			
CRI AVERAGE FROM 2000K-5500K	92+		ENVIRONMEN	Suitable for damp locations
INPUT VOLTAGE	48Volt, Class 2 wiring		CERTIFICATIO	ETL Listed. Meets Title 24 (JA8) requirements. NS Downlight Trim - Wet Listed. Adjustable - Damp listed*
CONSTRUCTION	IC Housing and NIC Fran			*Glass Lens to be used in showers and similar environment
	Heat Sink, Trims and Reflectors: Die-Cast Aluminum		AVERAGE LIFE	50,000 Hours
FINISH	Reflector: White, Black, Haze Satin Silver (low-glare) Trims: White, Black (Select finish options for Reflector and Trim separately)			5 Years
			WARRANTY	*See published warranty terms for detailed information
PROJECT			FIXTURE TYPE	DATE

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LUCA 3.5" DMX/DALI TRUCOLOR™ RGBTW

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Light Engine with Trim & 48VDC Low Voltage DMX Decoder **REMODEL NON-IC (Included with Standard Ordering Code)** Luca 3.5 comes complete with a DMX Decoder with 48VDC Input Class 2 Wiring with a remote power supply, up to 100 ft away. Order separately. The Class 2 Wiring 48V Input Quick Connect from Remote Power Supply standard ordering code serves both as a standalone option for remodeling and can also be utilized to incorporate new construction frames and housings. 30 55/16" 5¹/16" 5¹/16" RJ45 DMX (135mm) to Controls (129mm) (129mm) 48V DMX Decoder Ø3⁹/16"(Ø90mm) Ø3⁹/16"(Ø90mm) Ø3⁹/16"(Ø90mm) FIXED ADJUSTABLE Color Reflector Trim Type System Wattage Beam Spread Control Temperature Shape Function Finish Finish W W L35L 19W NF DMX TC R D DMX DMX/Home L35L Luca 3.5 Light 14W 13.5 Watts SP Spot 25° TC TruColor[™] RGBTW R Round D Downlight W White W White Narrow Flood 30 Engine 24V 19W 18.5 Watts NF Integration Red, Green, Blue, S Square Α Adjustable B Black B Black Low Voltage Flood 45° and Tunable White FL Pinhole/ C Custom L Trimless Wide Flood 55° 1500K-6500K Adjustable Ĥ Haze (Satin Silver) C Custom Input WF Refer to Pg. 9 for Aura *Only available Refer to Power Effect examples when filter is removed with black reflector and Supply Load Chart on Pg. 3 Trim trimless or white trim LUCA 3.5 Housings **NEW CONSTRUCTION FRAME NON-IC** 12.063" (175mm) 14.125" (358mm) 8.438" (215mm) Product Туре 6.875" (175mm) 5 3/0 L35L NCF NIC 2 L35L Luca 3.5 Downlight NCF New Construction Frame NIC Non-Insulation Contact 1/8" mix 1" max 2" (51mm) 3 1/2"-**NEW CONSTRUCTION HOUSING IC** 16.875" (428mm) 13.688" (347mm) Product Туре 14.313" (364mm 6.875" (175mm) .25" (285mm) 13.688" (347mm) NCH IC L35L 0 190mm)

NOMINAL DELIVERED LUMENS^{*}

NCF New Construction Housing

IC Insulation Contact

L35L Luca 3.5 Downlight

	30 D								DEGREE									
WATTS	14W							19W										
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS	420	482	530	625	700	787	968	621	505	573	676	741	825	933	1070	1263	881	757
LUMENS PER WATT (Im/w)	49	52	54	57	60	65	68	70	68	49	52	54	57	60	65	68	70	68
CRI	85.3	88.9	90.7	92.7	95.7	98	96.3	94.2	92.3	85.3	88.9	90.7	92.7	95.7	98	96.3	94.2	92.3
Duv	-0.0016	-0.0027	-0.003	-0.0029	-0.0017	-0.0008	-0.0003	-0.0029	-0.0024	-0.0016	-0.0027	-0.003	-0.0029	-0.0017	-0.0008	-0.0003	-0.0029	-0.0024
Rf	86	89	91	93	95	95	94	92	91	86	89	91	93	95	95	94	92	91
Rg	103	105	106	105	103	102	100	105	106	103	105	106	105	103	102	100	105	106
R9	90	90	90	90	97	96	84	92	83	90	90	90	90	97	96	84	92	83
R13	80	85	87	90	94	98	98	97	97	80	85	87	90	94	98	98	97	97
R15	90	91	92	93	96	98	96	95	93	90	91	92	93	96	98	96	95	93
WATTS	8.6	9.3	9.8	10.9	11.7	12.1	14.2	8.8	7.4	11.7	13	13.7	14.4	15.6	16.5	18.5	12.5	11.1

*Add 20% to values for Aura Effect by removing filters.

PROJECT		FIXTURE TYPE		DATE	
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3.125" 80mm)

7.5

🚇 🔬 💽 💧 DMX 🗖 LUCA 3.5" DMX/DALI TRUCOLOR™ RGBTW

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H: 2.3"

(5 8cm)

3.54' (9cm) 10/100

¹000000

2 75'

(7cm)

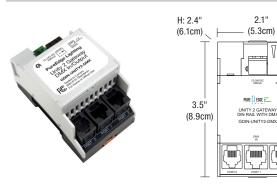
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PIIRF Pure Smart Lighting

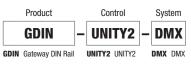
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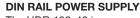
REQUIRED COMPONENTS





The Unity 2 DMX Gateway Intelligent IP Interface offers versatile control over an extensive range of lighting and motor control devices through wired or optional wireless Ethernet connection. This Unified Solution is a versatile platform that can handle diverse lighting and motor control needs with a single unit, reducing the need for multiple controllers. Designed for plug-and-play operation, the Gateway simplifies the setup process and typically requires just one unit for most applications..





The HDR-100-48 is a compact 100W DIN Rail power supply. It's adapted to be installed on TS-35/7.5 or TS-35/15 mounting rails. Adopting the full voltage range of 85VAC-264VAC (operational 277VAC condition). The HDR-100-48 is designed with an insulated housing protecting from electrical shock hazards. Can be remote located up to 100' away using WR 14 CL2 BR.





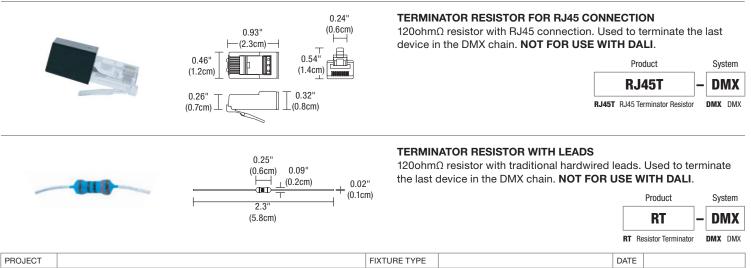
14 GAUGE	TWO CONDUCTOR CLASS 2 POWER WIRE

50 & 100ft per roll.



HDR-100-48 Load Calculations							
Fixture Wattage	Max Quantity	Wattage					
14	6	84					
19	5	95					

OPTIONAL COMPONENTS

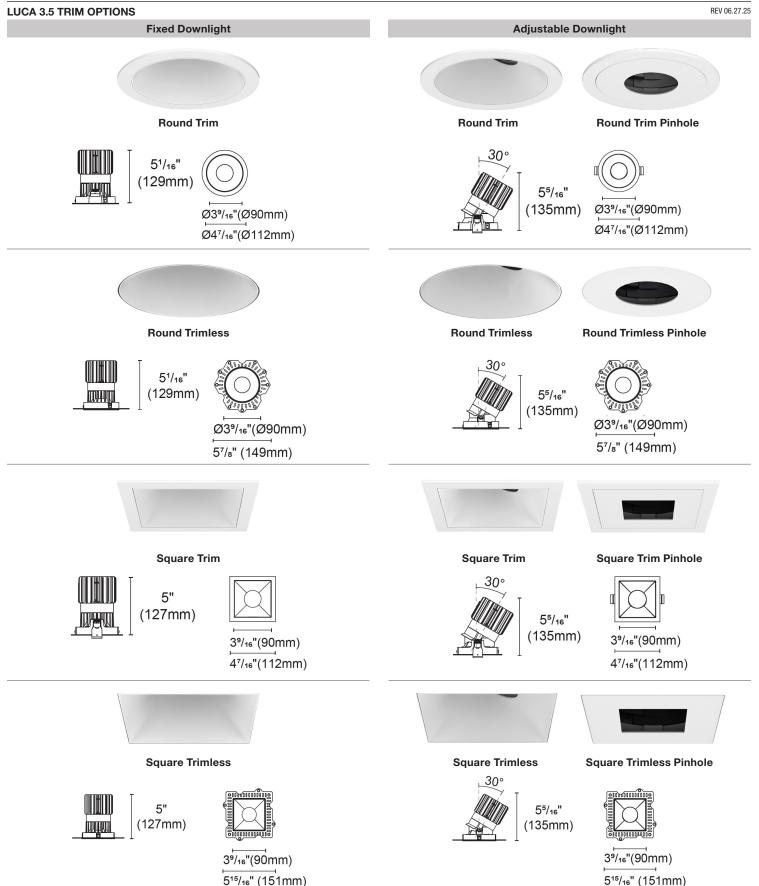


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FIXTURE TYPE

PROJECT

LUCA 3.5" DMX/DALI TRUCOLOR™ RGBTW

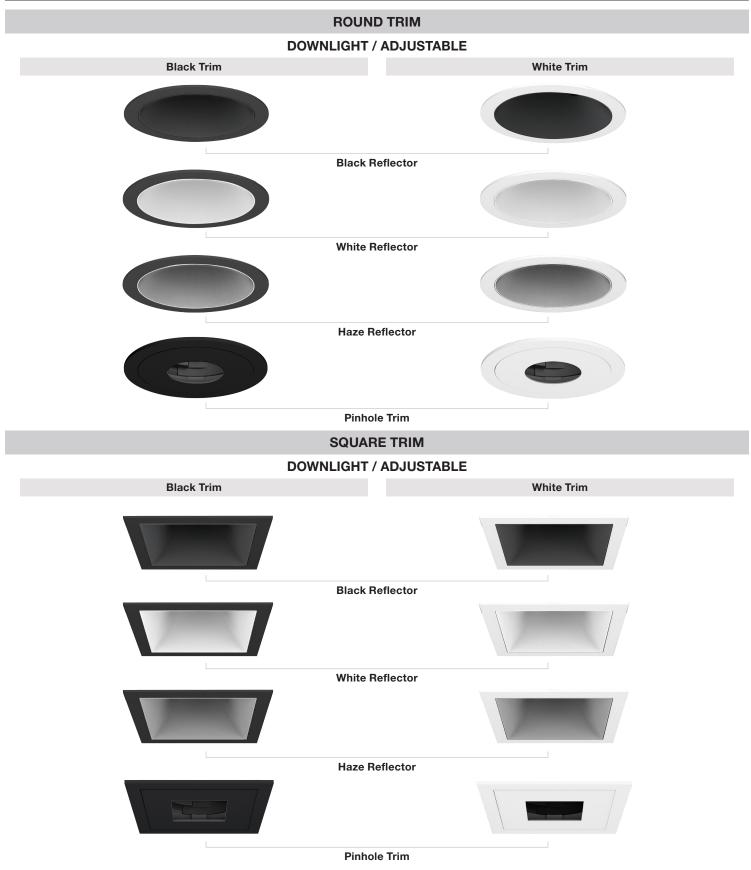
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LUCA 3.5 TRIM & REFLECTOR OPTIONS

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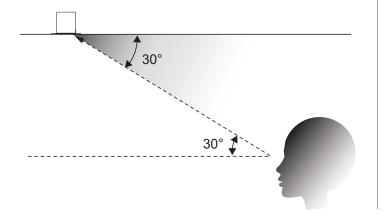
FIXTURE TYPE

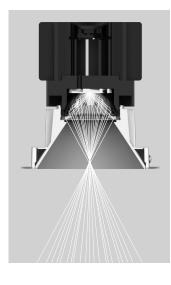
Model Constraints Model Constra

BEAM SPREAD & LENSES

LOW GLARE BAFFLE

Designed with a 30° cut-off angle, the Luca provides high output and efficiency while maximizing visual comfort.





SELECT UP TO TWO ACCESSORIES

OPTICS

Our Luca downlight has been meticulously designed to deliver exceptional performance and visual comfort. With its deep baffle design and a 30° cut-off, it effectively minimizes glare while providing a consistent and high-quality distribution of white light.

Pure Smart Lighting

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PIIRF

For added versatility, we proudly present our ADJUSTABLE DOWNLIGHT. Featuring a 30° tilt capability, it allows you to precisely direct the lighting at your desired surface.

ACCESSORIES

In addition to the standard glass wet Lens and soft diffusion film we offer a variety of beam spreads, and lens accessories to tailor the output and beam shape for specific applications. The Linear spread lens glass produces an oval illumination pattern, while the Wide diffused glass lens evenly distribute the light. Additionally, the Hexcell Louver is available for enhanced glare control.







Included with Fixture Ordering Code

Diffused Linear Spread





Wide Diffused Glass Lens

Conical Snoot

Hexcell

Louver

REPLACEMENT OPTICS



ACCI	ESSORIES (up to 2)			
	Product			Туре
	GL16	-		L
GL16	Glass 2" 50mm Diameter		L	Clear Glass Wet Lens Linear Spread Glass Lens Wide Diffuse Glass Lens
LF16	Lens Film 2" 50mm Diameter	:	S	Soft Diffusion Film
L016	Louver 2" 50mm Diameter	I	H	Hexcell Louver

SNOOT	
Product	Finish
STB16	– BK
STB16 Conical Snoot	BK Black



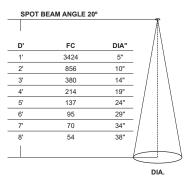
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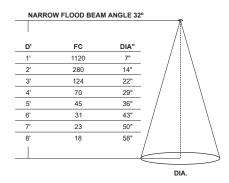
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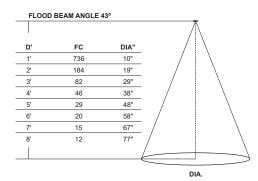
LUCA 3.5 FOOT CANDLE DISTRIBUTION

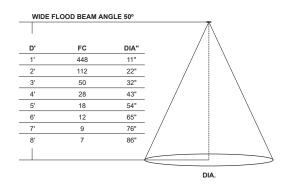
D - Distance From Luca fixture, FC - Initial foot candles at the center of beam, DIA - Diameter

14W at 3000K

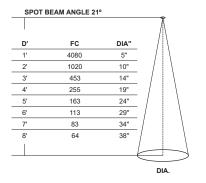


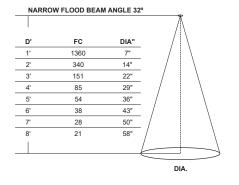


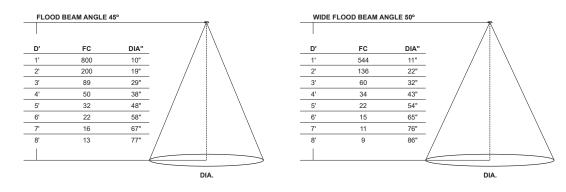




19W at 3000K







PROJECT

DATE

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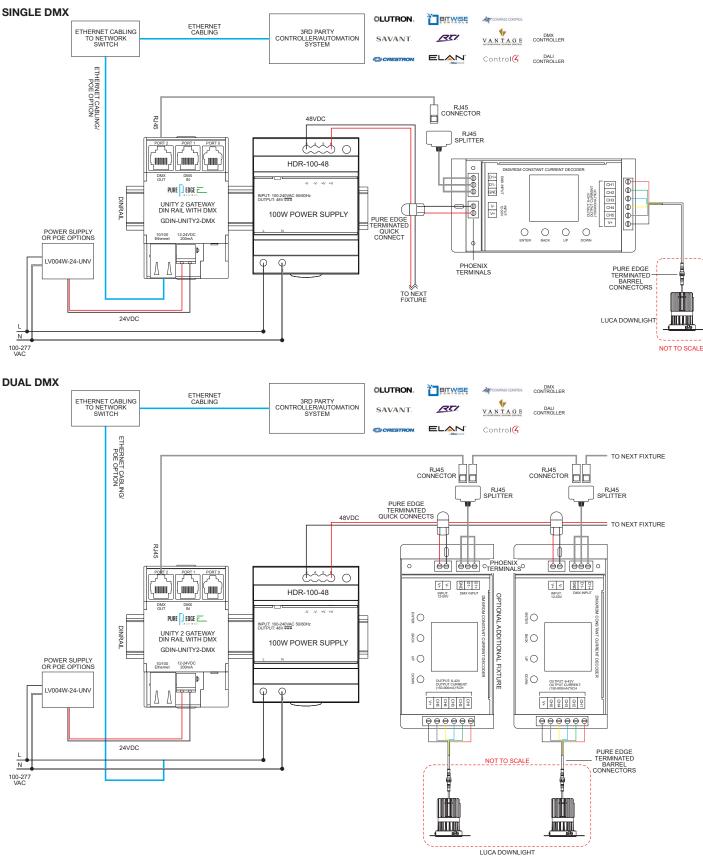
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FIXTURE TYPE

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NETWORK TOPOLOGY



PURE

EDGE 💳

Pure Smart Lighting

FIXTURE TYPE

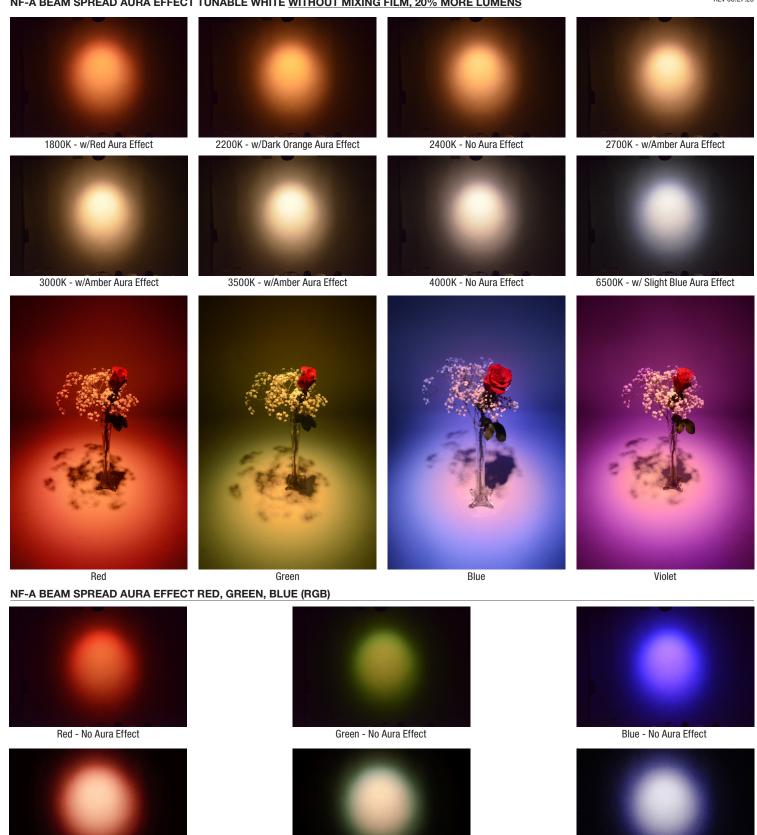
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NF-A BEAM SPREAD AURA EFFECT TUNABLE WHITE WITHOUT MIXING FILM, 20% MORE LUMENS



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Red Pastel Aura Effect

Green Pastel Aura Effect

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Blue Pastel Aura Effect

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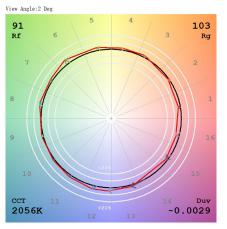
FIXTURE TYPE

EDGE Pure Smart Lighting

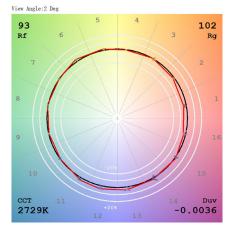
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TM-30-15 DATA: The data below is for TruColor[™] RGBTW. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

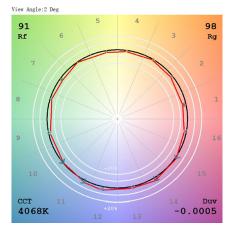
2000K (TruColor[™] RGBTW)



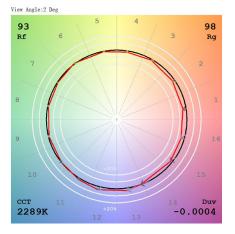
2700K (TruColor[™] RGBTW)



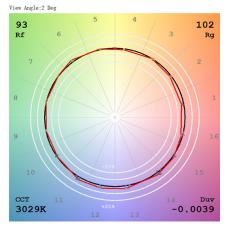
4000K (TruColor[™] RGBTW)



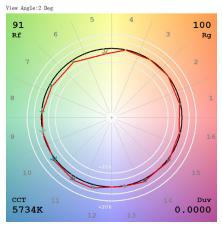
2200K (TruColor[™] RGBTW)



3000K (TruColor[™] RGBTW)

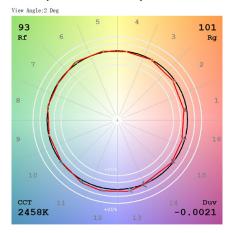


5700K (TruColor[™] RGBTW)

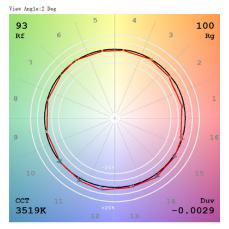


2400K (TruColor[™] RGBTW)

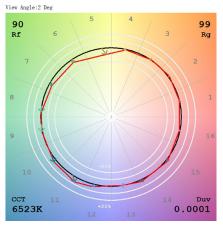
PURE



3500K (TruColor[™] RGBTW)



6500K (TruColor[™] RGBTW)



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