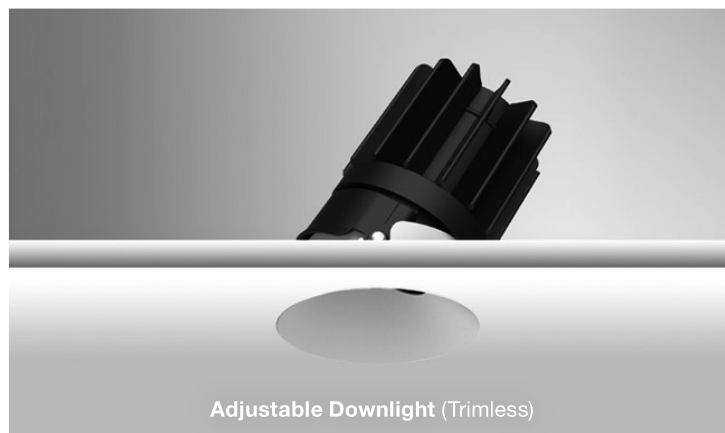


LUCA 2.7" DMX/DALI TRUCOLOR™ RGBTW 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS



Fixed Downlight (Trim)



Adjustable Downlight (Trimless)

DESCRIPTION

Experience the radiance of Luca 2.7, 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 **TruColor™ RGBTW**.

The Luca 2.7 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, Luca 2.7 is versatile for a wide array of new construction and remodel applications. Moreover, the compact form factor 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: design@PureEdgeLighting.com

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 ± 0.0020 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, soft pastels and unprecedented ease of installation, making **TruColor™ (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™ RGBTW** transform your space and the people within it. **TruColor™ RGBTW** is optimized for control with All Major Home Lighting Systems.

Join us in creating a brighter and more sustainable world with Luca 2.7, and class 2 wiring, the ultimate "Bringer of Light."

SPECIFICATIONS

TRIM OPTIONS	Trim, Trimless, Round, Square, for both Fixed & Adjustable		CONTROLS	Keypads from: Lutron, Crestron, Vantage, Elan, Savant, Control 4, RTI,URC, Bit Wise, and Compass Control
FINISH	Reflector: White, Black, Haze, (Satin Silver, low-glare) Trim: White, Black		SYSTEM	Gateway Unity 2
ADJUSTABLE	30° Tilt, 360° rotation		DIMMING RANGE	Dimmable from 100% - 0.1%
OPTICS	Field Adjustable - 25°, 35°, 45°, 55° With Soft Diffusing Film 35% more lumens without filter, colors RGB could have the Aura effect, see pg 13		POWER SUPPLY	48 Volt Power Supply
WATTAGE (NOMINAL)	14W	19W	CUT OUT SIZE	Round: Ø 3", Square: 3"
TOTAL LUMENS @ 3000K, 30°	641Lm	854Lm	CEILING THICKNESS	0.5" - 1"
EFFICACY	51Lm/W	60Lm/W	ENVIRONMENT	Suitable for damp locations
CCT	16 million colors RGBTW, CCT 1500K-6500K		CERTIFICATIONS	ETL Listed. Meets Title 24 (JA8) requirements. Downlight Trim - Wet Listed. Adjustable - Damp listed* <small>*Glass Lens to be used in showers and similar environment</small>
CRI AVERAGE FROM 2000K-5500K	92+		AVERAGE LIFE	50,000 Hours
INPUT VOLTAGE	48 Volt, Eco-consciousness Class 2 Wiring		WARRANTY	5 Years <small>*See published warranty terms for detailed information</small>
CONSTRUCTION	IC Housing and NIC Frame: Galvanized Steel Heat Sink, Trims and Reflectors: Die-Cast Aluminum			
ACCESSORIES	Clear Glass & Soft Diffusing Film (Included) Linear Spread Glass Lens, Wide Diffused Glass Lens, or Hexcell Louver			

PROJECT		FIXTURE TYPE		DATE	
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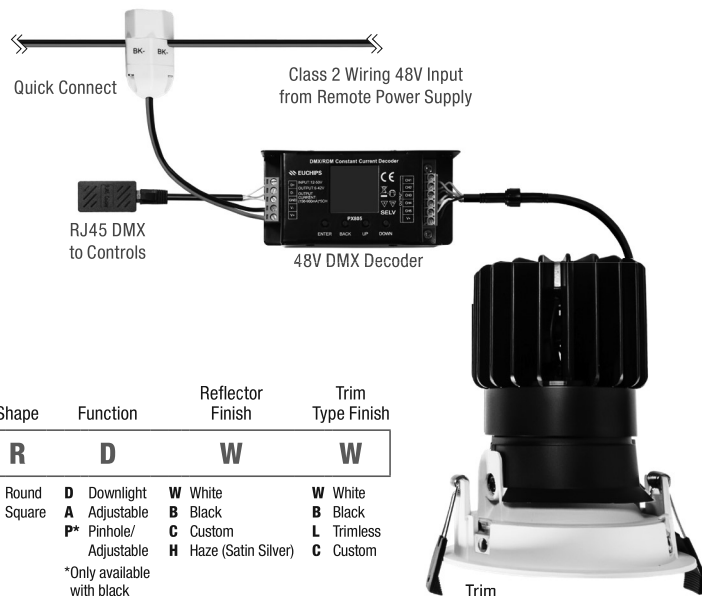
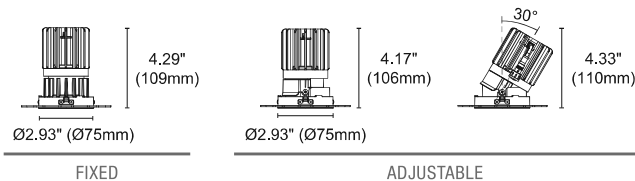
LUCA 2.7" DMX/DALI TRUCOLOR™ RGBTW 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

REV 06.27.25

Light Engine with Trim & 48VDC Low Voltage Smart Driver

REMODEL NON-IC (Included with Standard Ordering Code)

Luca 2.7 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 standard ordering code serves both as a standalone option for remodeling and can also be utilized to incorporate new construction frames and housings.

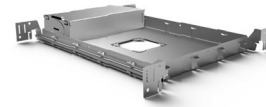
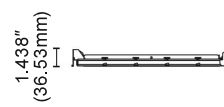
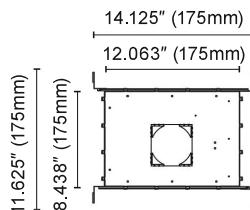


System	Wattage	Beam Spread	Control System	Color Temperature	Shape	Function	Reflector Finish	Trim Type Finish
L27L	19W	NF	DMX	TC	R	D	W	W
L27L Luca 2.7 Light Engine 24V Low Voltage input	14W 13.5 Watts 19W 18.5 Watts	SP Spot 25° NF Narrow Flood 35° FL Flood 45° WF Wide Flood 55°	DMX DMX/ Home Integration	TC TruColor™ RGBTW Red, Green, Blue, and Tunable White 1500K-6500K	R Round S Square	D Downlight A Adjustable P* Pinhole/ Adjustable	W White B Black C Custom H Haze (Satin Silver)	W White B Black L Trimless C Custom
	Refer to Power Supply Load Chart on Pg. 3	Refer to Pg. 9 for Aura Effect examples when filter is removed				*Only available with black reflector and trimless or white trim		

LUCA 2.7 New Construction Frames and Housings

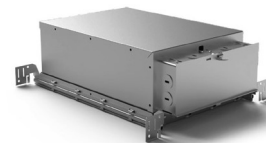
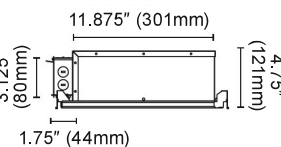
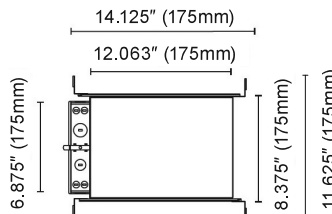
NEW CONSTRUCTION FRAME NON-IC

Product	Type
L27L	NCF - NIC
L27L Luca 2.7 Downlight	NCF New Construction Frame NIC Non-Insulation Contact



NEW CONSTRUCTION HOUSING IC

Product	Type
L27L	NCH - IC
L27L Luca 2.7 Downlight	NCH New Construction Housing IC Insulation Contact



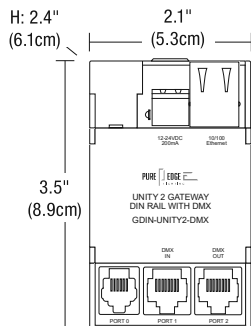
NOMINAL DELIVERED LUMENS

	30 DEGREES																	
WATTS	14W									19W								
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS	389	427	483	599	641	673	711	673	632	525	619	679	756	854	980	1157	807	693
LUMENS PER WATT (lm/w)	29	32	37	48	51	53	54	50	47	49	52	54	57	60	65	68	70	68
CRI	78.3	81.1	85.4	94.2	95.5	96.3	96.4	95.9	93.3	85.3	88.9	90.7	92.7	95.7	98	96.3	94.2	92.3
Duv	0.000	0.003	0.001	-0.0053	-0.0046	-0.0033	-0.0037	-0.0033	-0.0054	-0.0016	-0.0027	-0.003	-0.0029	-0.0017	-0.0008	-0.0003	-0.0029	-0.0024
Rf	81	81	87	93	94	94	93	93	91	86	89	91	93	95	95	94	92	91
Rg	101	97	102	105	105	104	101	104	105	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	13.2	13.2	13.2	12.5	12.5	12.7	13.2	13.4	13.4	11.7	13	13.7	14.4	15.6	16.5	18.5	12.5	11.1

PROJECT	FIXTURE TYPE	DATE
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LUCA 2.7" DMX/DALI TRUCOLOR™ RGBTW 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

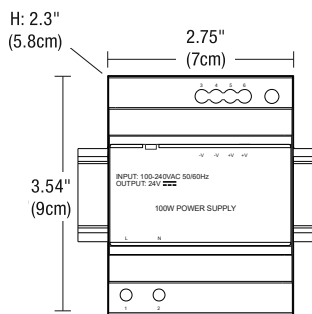
REQUIRED COMPONENTS



UNITY 2 DMX GATEWAY

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..

Product	Control	System
GDIN	UNITY2	DMX
GDIN Gateway DIN Rail	UNITY2 UNITY2	DMX DMX



DIN RAIL POWER SUPPLY

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.

Product	Wattage	Voltage
HDR	100	48
HDR Din Rail Power Supply	100 100 Watts, 2 Amp Max	48 48 Volts DC



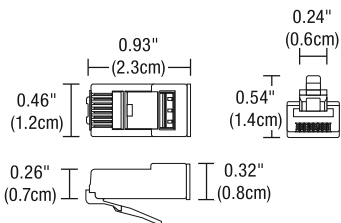
14 GAUGE TWO CONDUCTOR CLASS 2 POWER WIRE 50 & 100ft per roll.

Product	Gauge	Class	Conductors	
WIR	14	CL2	BR	100FT
WIR Wire	14 14AWG (American Wire Gauge)	CL2 Class 2	BR Black & Red Conductors	50FT 50 foot roll 100FT 100 foot roll

HDR-100-48 Load Calculations

L2.7 Fixture Wattage	Max Quantity	Wattage
14	6	84
19	5	95

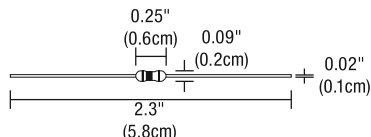
OPTIONAL COMPONENTS



TERMINATOR RESISTOR FOR RJ45 CONNECTION

120ohmΩ resistor with RJ45 connection. Used to terminate the last device in the DMX chain. **NOT FOR USE WITH DALI.**

Product	System
RJ45T	DMX
RJ45T RJ45 Terminator Resistor	DMX DMX



TERMINATOR RESISTOR WITH LEADS

120ohmΩ resistor with traditional hardwired leads. Used to terminate the last device in the DMX chain. **NOT FOR USE WITH DALI.**

Product	System
RT	DMX
RT Resistor Terminator	DMX DMX

PROJECT		FIXTURE TYPE		DATE	
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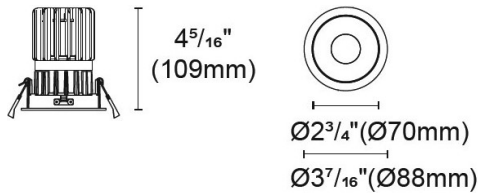
LUCA 2.7" DMX/DALI TRUCOLOR™ RGBTW 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

LUCA 2.7 WALL WASH TRIM OPTIONS

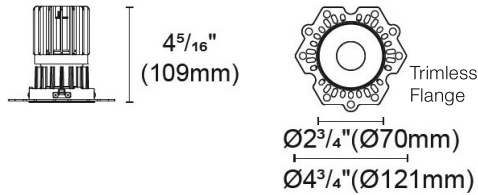
Fixed Downlight



Round Trim



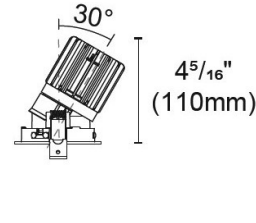
Round Trimless



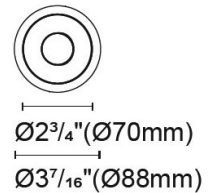
Adjustable Downlight



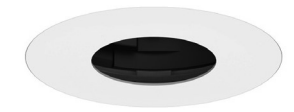
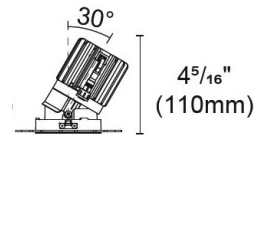
Round Trim



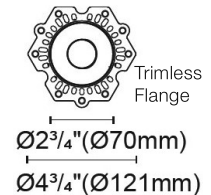
Round Trim Pinhole



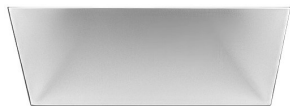
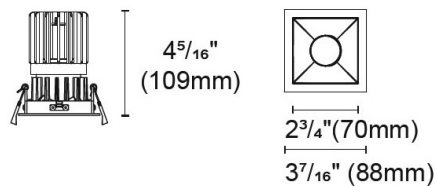
Round Trimless



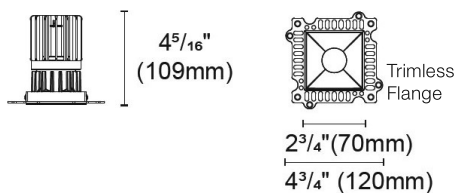
Round Trimless Pinhole



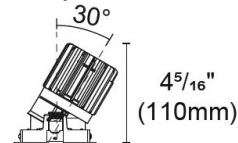
Square Trim



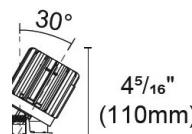
Square Trimless



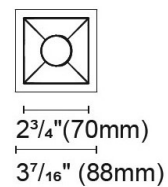
Square Trim



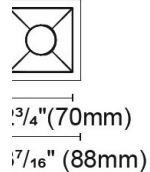
Square Trimless



Square Trim Pinhole



Square Trimless Pinhole



PROJECT		FIXTURE TYPE		DATE	
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LUCA 2.7" DMX/DALI TRUCOLOR™ RGBTW
 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

LUCA 2.7 TRIM & REFLECTOR OPTIONS

ROUND TRIM

DOWNLIGHT / ADJUSTABLE

Black Trim

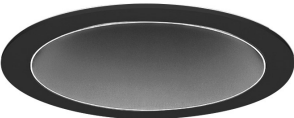
White Trim



Black Reflector



White Reflector



Haze Reflector



Pinhole Trim

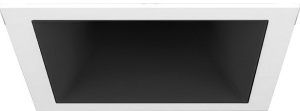


SQUARE TRIM

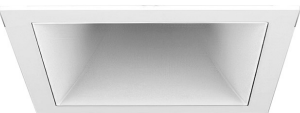
DOWNLIGHT / ADJUSTABLE

Black Trim

White Trim



Black Reflector



White Reflector



Haze Reflector



Pinhole Trim

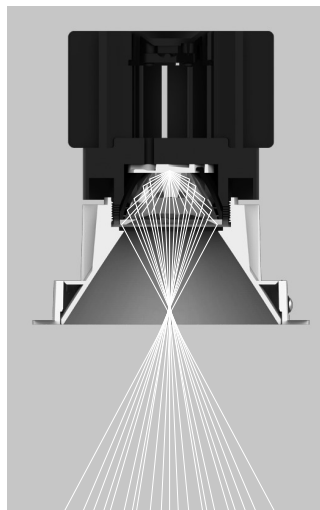
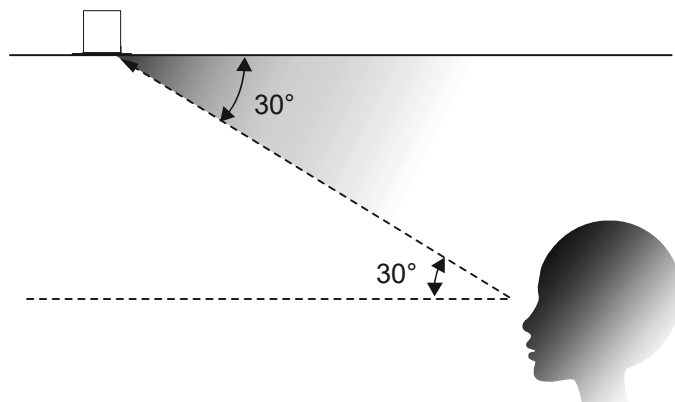


LUCA 2.7" DMX/DALI TRUCOLOR™ RGBTW 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

BEAM SPREAD & LENSES

LOW GLARE BAFFLE

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

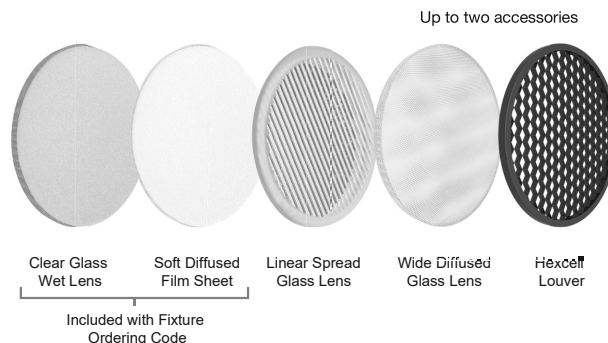


OPTICS

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.

Our Adjustable Downlight features a 30° tilt for precise aiming and control.

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.



REPLACEMENT OPTICS

Product	Type	Beam Spread	Diameter	Height
OPL	L27	NF	35MM	15MM
OPL Optical Lens	L27 Luca 2.7	SP Spot 25° Lens NF Narrow Flood 35° Lens FL Flood 45° Lens WF Wide Flood 60° Lens	35MM 35mm	15MM 15mm

Accessories (up to 2)

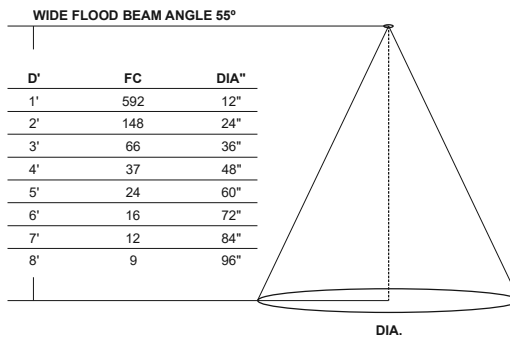
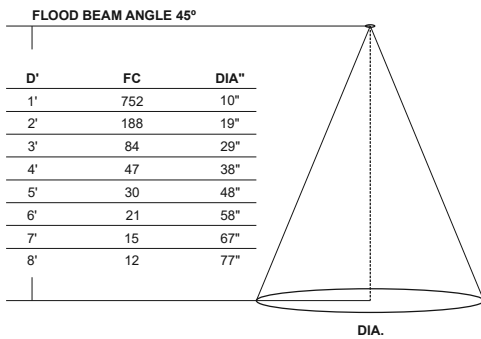
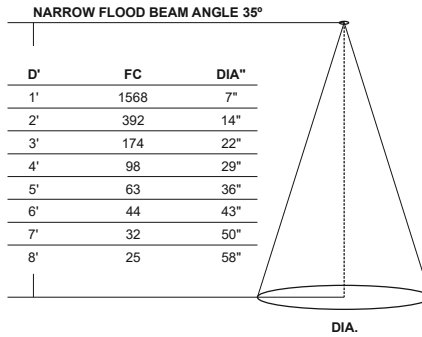
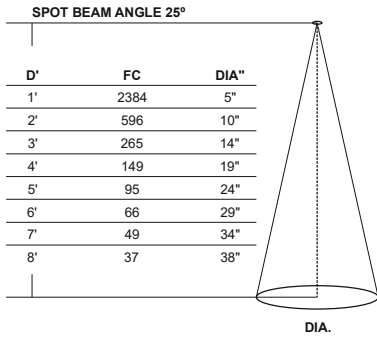
Product	Type
GL13	L
GL13 Glass 1 5/8" (40mm) Diameter	C Clear Glass Wet Lens L Linear Spread Glass Lens W Wide Diffuse Glass Lens
LF13 Lens Film 1 5/8" (40mm) Diameter	S Soft Diffusion Film
LO13 Louver 1 5/8" (40mm) Diameter	H Hexcell Louver

LUCA 2.7" DMX/DALI TRUCOLOR™ RGBTW 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

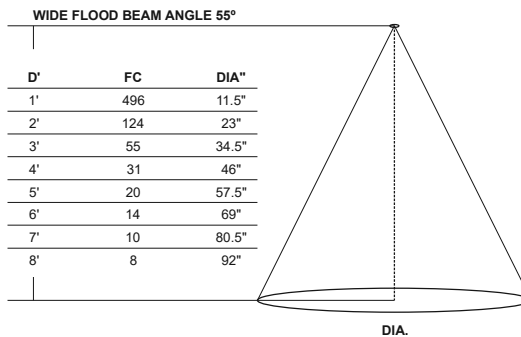
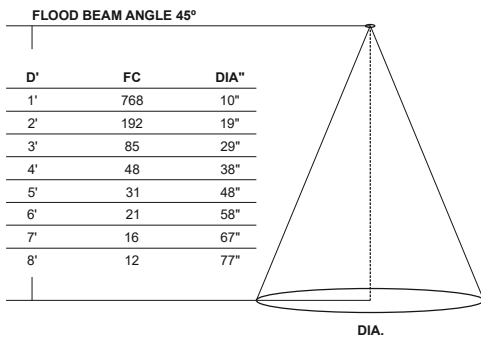
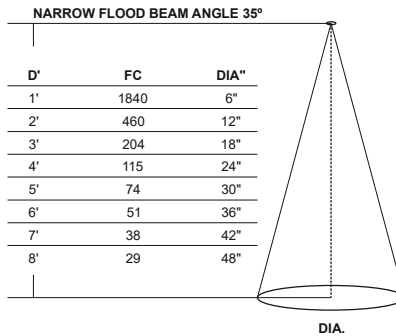
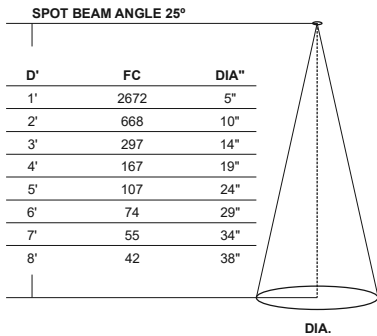
LUCA 2.7 FOOT CANDLE DISTRIBUTION

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

14W at 3000K



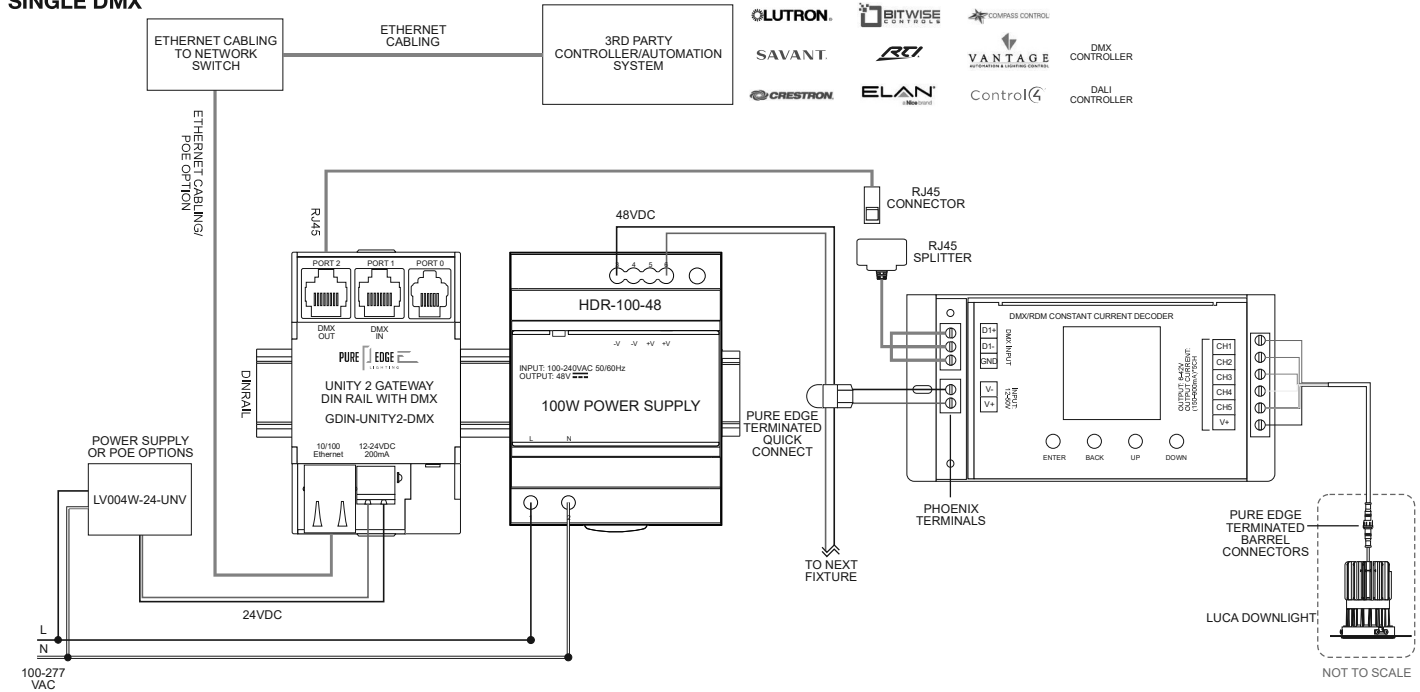
19W at 3000K



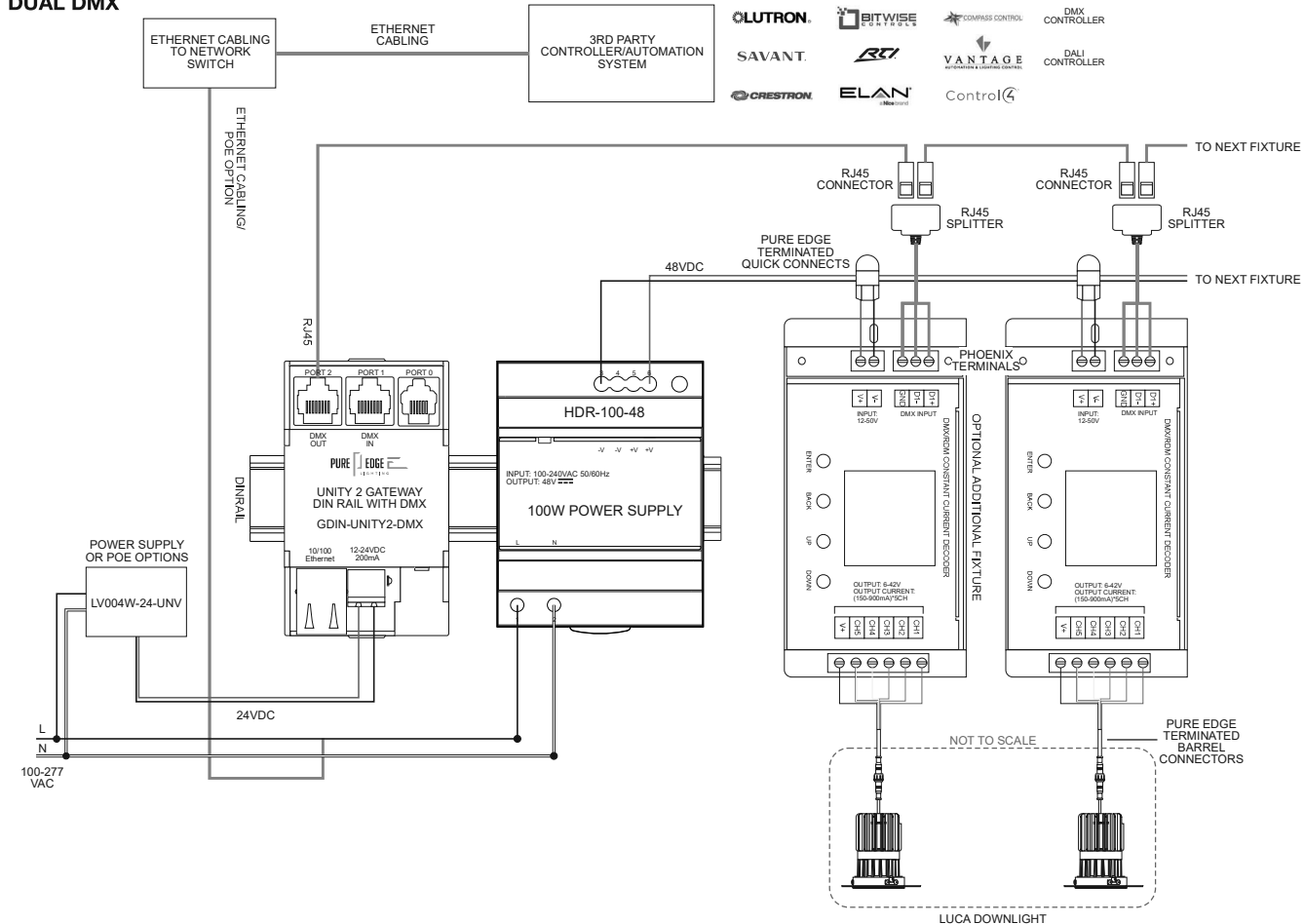
LUCA 2.7" DMX/DALI TRUCOLOR™ RGBTW 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

NETWORK TOPOLOGY

SINGLE DMX



DUAL DMX



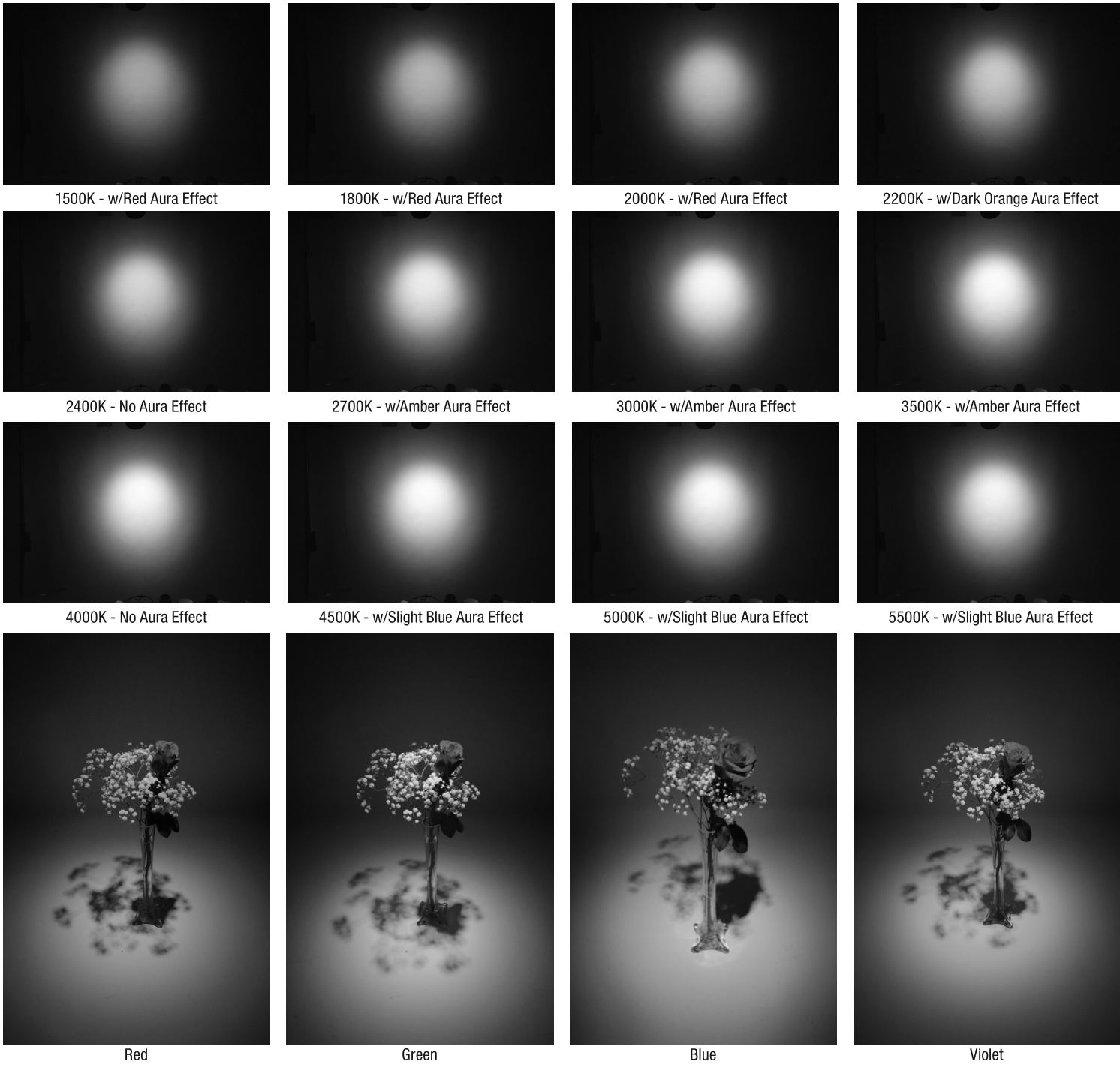
PROJECT		FIXTURE TYPE		DATE	
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LUCA 2.7" DMX/DALI TRUCOLOR™ RGBTW
 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS



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

REV 06.27.25



NF-A BEAM SPREAD AURA EFFECT RED, GREEN, BLUE (RGB)



PROJECT		FIXTURE TYPE		DATE	
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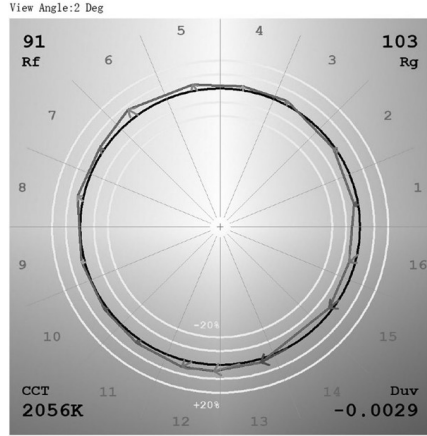
TM30 DATA

48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

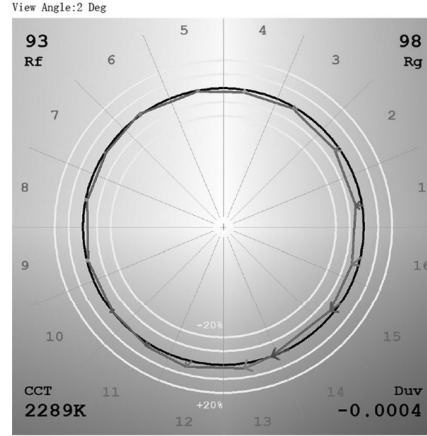
REV 06.27.25

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.

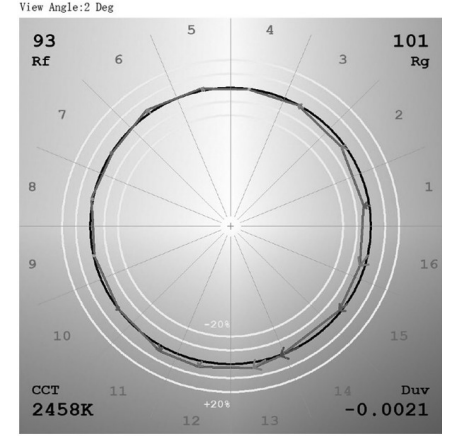
2000K (TruColor™ RGBTW)



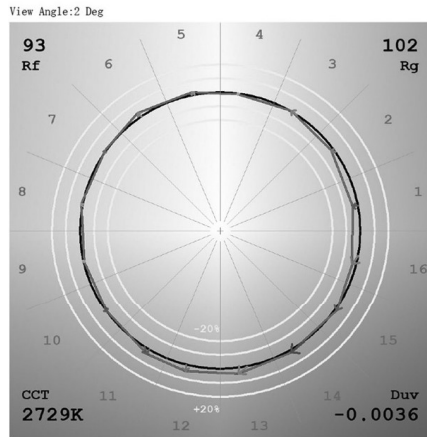
2200K (TruColor™ RGBTW)



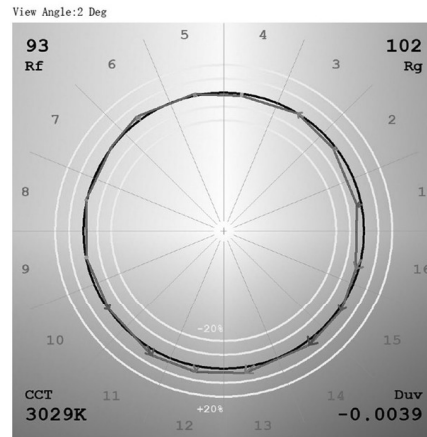
2400K (TruColor™ RGBTW)



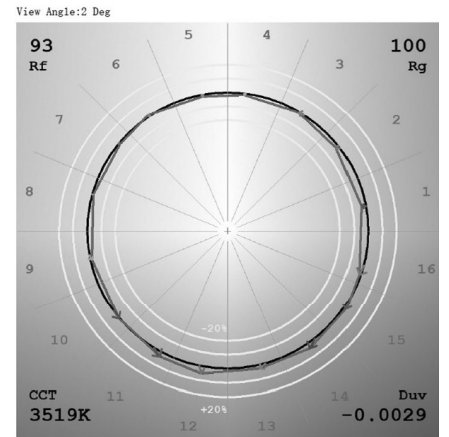
2700K (TruColor™ RGBTW)



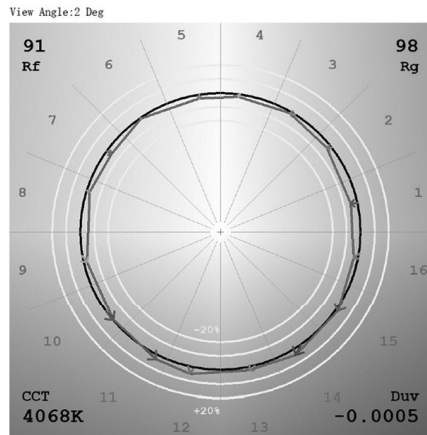
3000K (TruColor™ RGBTW)



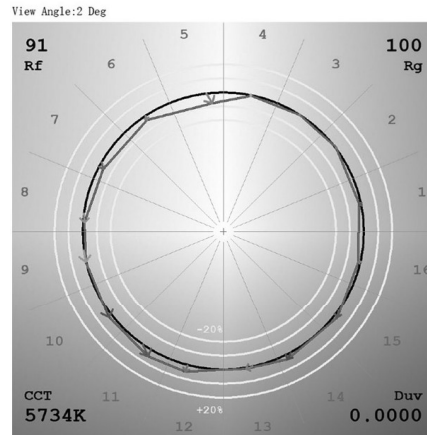
3500K (TruColor™ RGBTW)



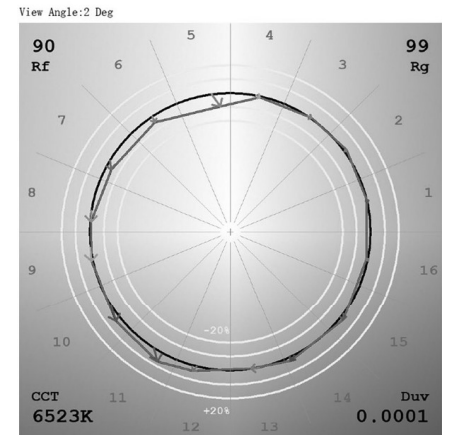
4000K (TruColor™ RGBTW)



5700K (TruColor™ RGBTW)



6500K (TruColor™ RGBTW)



PROJECT		FIXTURE TYPE		DATE	
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