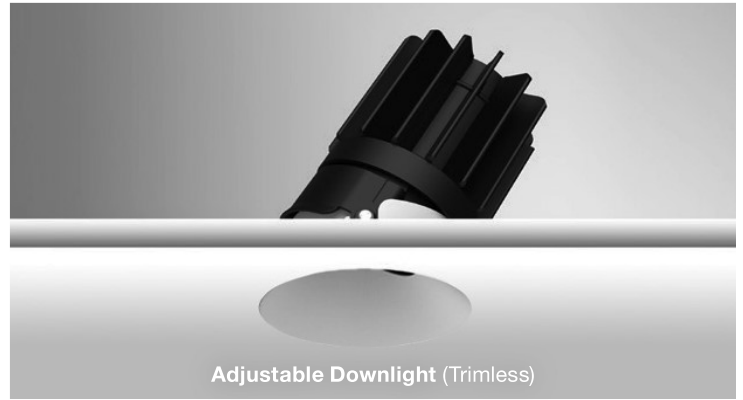
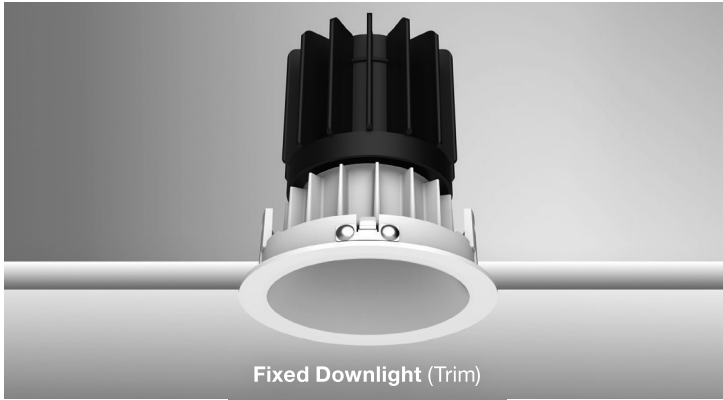


# LUCA 3.5" DMX/DALI TRUCOLOR™ RGBTW

## 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS



### 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 **TruColor™ RGBTW**.

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 [design@PureEdgeLighting.com](mailto:design@PureEdgeLighting.com)

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 +/-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, 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 everyday 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

<b>OPTIONS</b>	Trim, Trimless, Round, Square, for both Fixed & Adjustable	
<b>ADJUSTABLE</b>	30° Tilt, 360 Rotation	
<b>OPTICS</b>	Field Adjustable - 20°, 30°, 45°, 55° With Soft Diffusing Film	
<b>WATTAGE (NOMINAL)</b>	14W	19W
<b>LUMENS @ 3000K, 30 Degrees</b>	700Lm	933Lm
<b>EFFICACY</b>	60Lm/W	60Lm/W
<b>CCT</b>	16 Million Colors RGBTW, CCT 1500K-6500K	
<b>CRI AVERAGE FROM 2000K-5500K</b>	92+	
<b>INPUT VOLTAGE</b>	48Volt, Class 2 wiring	
<b>CONSTRUCTION</b>	IC Housing and NIC Frame: Galvanized Steel Heat Sink, Trims and Reflectors: Die-Cast Aluminum	
<b>FINISH</b>	Reflector: White, Black, Haze Satin Silver (low-glare) Trims: White, Black (Select finish options for Reflector and Trim separately)	

<b>CONTROLS</b>	Keypads from: Lutron, Crestron, Vantage, Elan, Savant, Control 4, RTI,URC, Bit Wise, and Compass Control
<b>SYSTEM</b>	Gateway <b>Unity 2</b>
<b>DIMMING</b>	Dimmable from 100% - 0.1%
<b>POWER SUPPLY</b>	48 Volt Power Supply
<b>CUT OUT SIZE</b>	Round: Ø 4" Square: 4"
<b>ENVIRONMENT</b>	Suitable for damp locations
<b>CERTIFICATIONS</b>	ETL Listed. Meets Title 24 (JA8) requirements. <b>Downlight Trim</b> - Wet Listed. <b>Adjustable</b> - Damp listed* <small>*Glass Lens to be used in showers and similar environment</small>
<b>AVERAGE LIFE</b>	50,000 Hours
<b>WARRANTY</b>	5 Years <small>*See published warranty terms for detailed information</small>

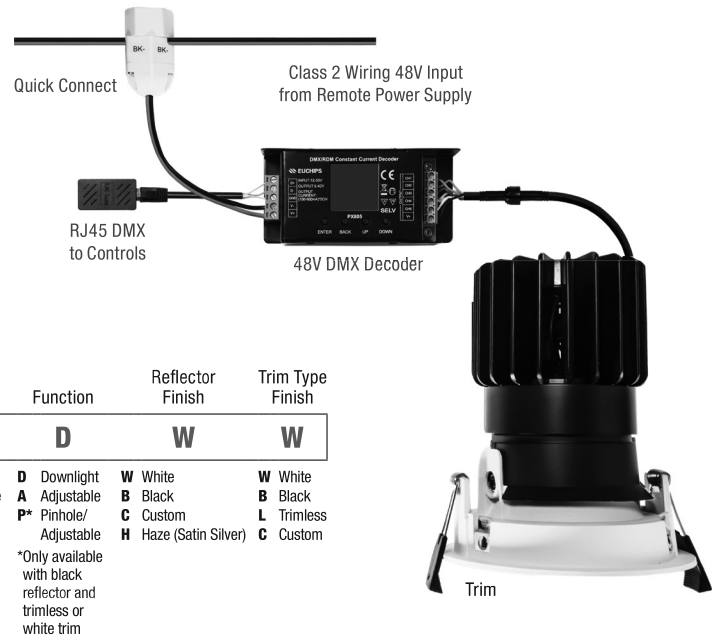
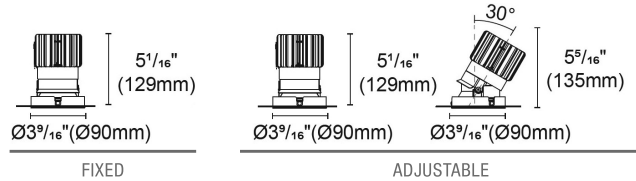
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# **LUCA 3.5" DMX/DALI TRUCOLOR™ RGBTW** 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

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

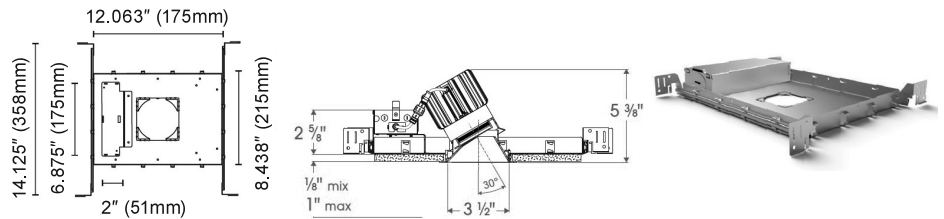


System	Wattage	Beam Spread	Control	Color Temperature	Shape	Function	Reflector Finish	Trim Type Finish
<b>L35L</b>	<b>19W</b>	<b>NF</b>	<b>DMX</b>	<b>TC</b>	<b>R</b>	<b>D</b>	<b>W</b>	<b>W</b>
<b>L35L</b> Luca 3.5 Light Engine 24V Low Voltage Input	<b>14W</b> 13.5 Watts <b>19W</b> 18.5 Watts  Refer to Power Supply Load Chart on Pg. 3	<b>SP</b> Spot 25° <b>NF</b> Narrow Flood 30° <b>FL</b> Flood 45° <b>WF</b> Wide Flood 55°  Refer to Pg. 9 for Aura Effect examples when filter is removed	<b>DMX</b> DMX/ Home Integration	<b>TC</b> TruColor™ RGBTW Red, Green, Blue, and Tunable White 1500K-6500K	<b>R</b> Round <b>S</b> Square	<b>D</b> Downlight <b>A</b> Adjustable <b>P*</b> Pinhole/ Adjustable  *Only available with black reflector and trimless or white trim	<b>W</b> White <b>B</b> Black <b>C</b> Custom <b>H</b> Haze (Satin Silver)	<b>W</b> White <b>B</b> Black <b>L</b> Trimless <b>C</b> Custom

## **LUCA 3.5 Housings**

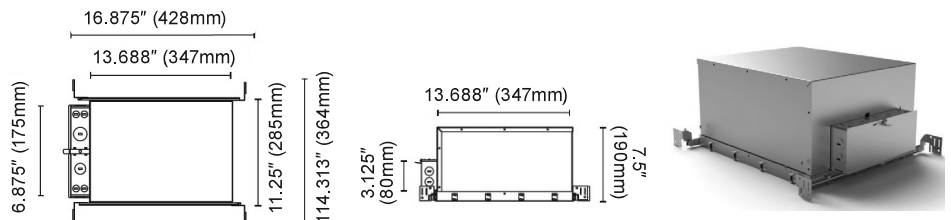
### **NEW CONSTRUCTION FRAME NON-IC**

Product	Type
<b>L35L</b>	<b>NCF</b> <b>NIC</b>
<b>L35L</b> Luca 3.5 Downlight	<b>NCF</b> New Construction Frame <b>NIC</b> Non-Insulation Contact



### **NEW CONSTRUCTION HOUSING IC**

Product	Type
<b>L35L</b>	<b>NCH</b> <b>IC</b>
<b>L35L</b> Luca 3.5 Downlight	<b>NCH</b> New Construction Housing <b>IC</b> Insulation Contact



## **NOMINAL DELIVERED LUMENS\***

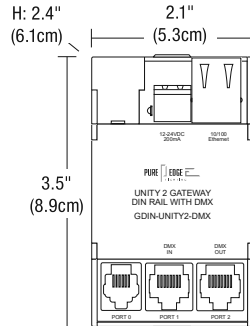
	30 DEGREE																	
WATTS	14W									19W								
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS	420	482	530	625	700	787	968	621	505	573	676	741	825	933	1070	1263	881	757
LUMENS PER WATT (lm/w)	49	52	54	57	60	65	68	70	68	49	52	54	57	60	65	68	70	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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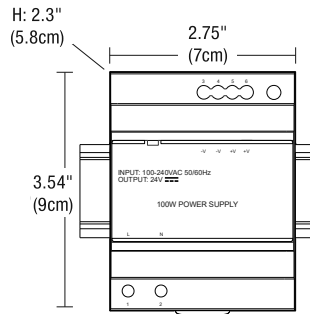
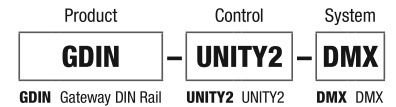
# LUCA 3.5" DMX/DALI TRUCOLOR™ RGBTW 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

## REQUIRED COMPONENTS



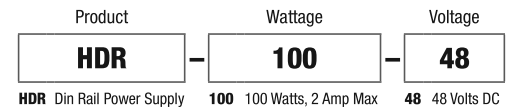
### UNITY 2 DMX GATEWAY

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..

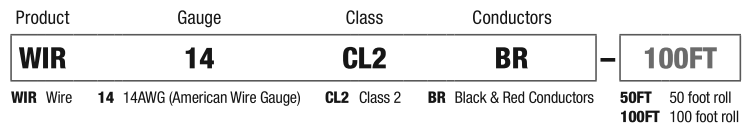


### DIN RAIL POWER SUPPLY

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.



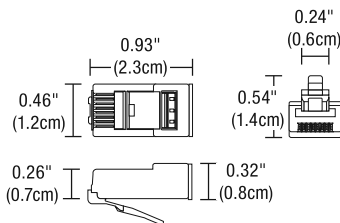
### 14 GAUGE TWO CONDUCTOR CLASS 2 POWER WIRE 50 & 100ft per roll.



#### HDR-100-48 Load Calculations

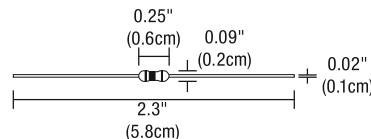
Fixture Wattage	Max Quantity	Wattage
14	6	84
19	5	95

## OPTIONAL COMPONENTS



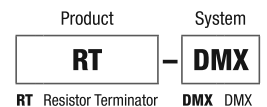
### TERMINATOR RESISTOR FOR RJ45 CONNECTION

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



### 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.**



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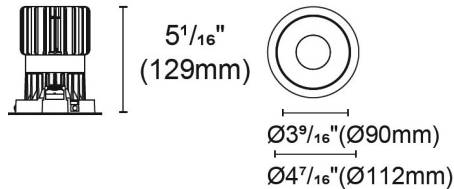
# **LUCA 3.5" DMX/DALI TRUCOLOR™ RGBTW** 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

## **LUCA 3.5 TRIM OPTIONS**

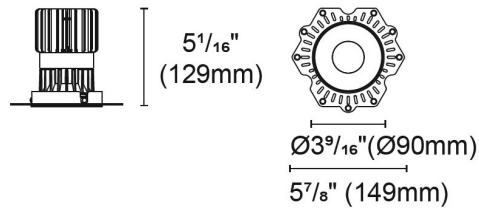
### **Fixed Downlight**



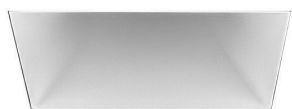
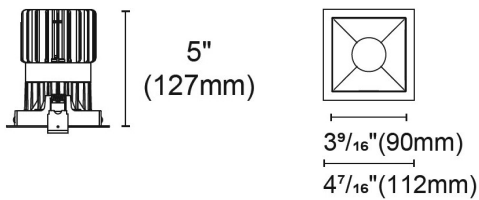
**Round Trim**



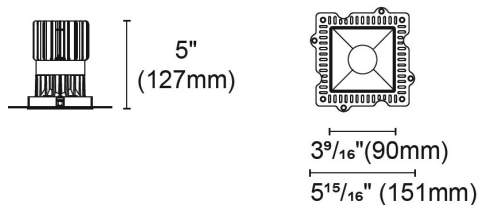
**Round Trimless**



**Square Trim**



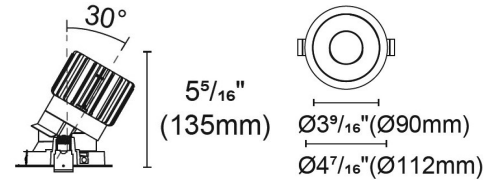
**Square Trimless**



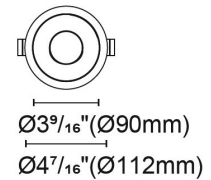
### **Adjustable Downlight**



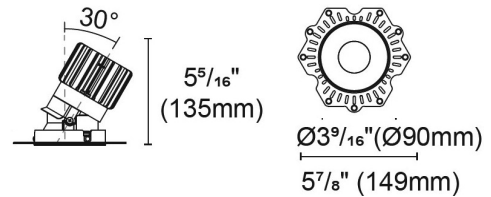
**Round Trim**



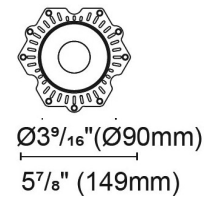
**Round Trim Pinhole**



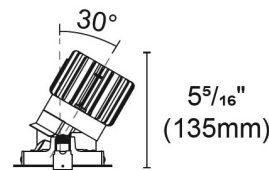
**Round Trimless**



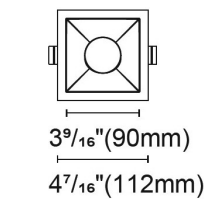
**Round Trimless Pinhole**



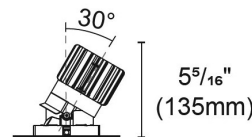
**Square Trim**



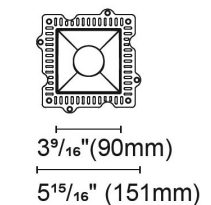
**Square Trim Pinhole**



**Square Trimless**



**Square Trimless Pinhole**



PROJECT		FIXTURE TYPE		DATE	
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**LUCA 3.5" DMX/DALI TRUCOLOR™ RGBTW**  
 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

**LUCA 3.5 TRIM & REFLECTOR OPTIONS**

**ROUND TRIM**

**DOWNLIGHT / ADJUSTABLE**

**Black Trim**

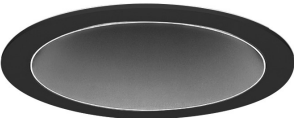
**White Trim**



**Black Reflector**



**White Reflector**



**Haze Reflector**



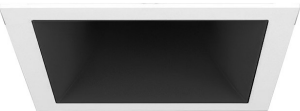
**Pinhole Trim**

**SQUARE TRIM**

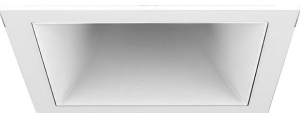
**DOWNLIGHT / ADJUSTABLE**

**Black Trim**

**White Trim**



**Black Reflector**



**White Reflector**



**Haze Reflector**



**Pinhole Trim**

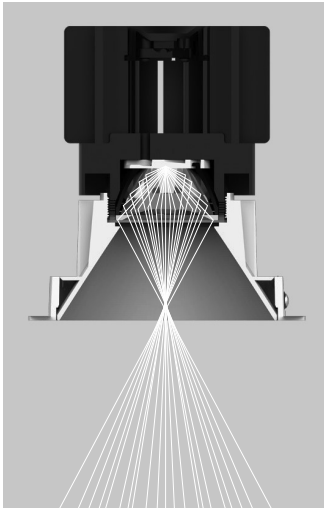
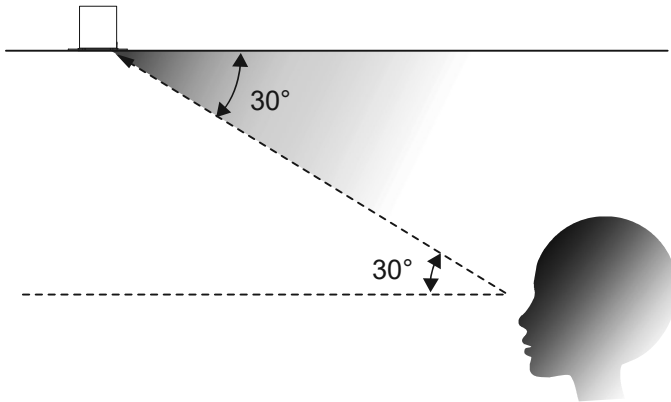
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# **LUCA 3.5" DMX/DALI TRUCOLOR™ RGBTW** 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

## **BEAM SPREAD & LENSES**

### **LOW GLARE BAFFLE**

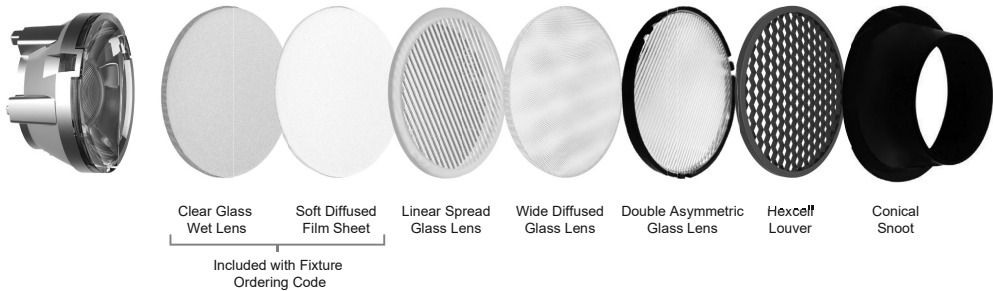
Designed with a 30° cut-off angle, the Luca provides high output and efficiency while maximizing visual comfort.



### **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.

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.



In addition to the included 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 elliptical illumination pattern, while the Wide diffused glass lens evenly distribute the light. The Double Asymmetric Glass Lens splits the light beam evenly into two opposing directions, creating two elliptical illumination patterns. Additionally, the Hexcell Louver is available for enhanced glare control.

### **REPLACEMENT OPTICS**

Product	Type	Beam Spread	Diameter	Height
<b>OPL</b>	<b>L35</b>	<b>NF</b>	<b>45MM</b>	<b>21MM</b>
<b>OPL</b> Optical Lens	<b>L35</b> Luca 3.5	<b>SP</b> Spot 20° <b>NF</b> Narrow Flood 30° <b>FL</b> Flood 45° <b>WF</b> Wide Flood 55°	<b>45MM</b> 45mm (1 3/4") Lens	<b>21MM</b> 21mm (13/16")

### **ACCESSORIES (up to 2)**

Product	Type
<b>GL16</b>	<b>L</b>
<b>GL16</b> Glass 2" 50mm Diameter	<b>C</b> Clear Glass Wet Lens <b>L</b> Linear Spread Glass Lens <b>W</b> Wide Diffuse Glass Lens <b>DAL</b> Double Asymmetric Glass Lens
<b>LF16</b> Lens Film 2" 50mm Diameter	<b>S</b> Soft Diffusion Film
<b>L016</b> Louver 2" 50mm Diameter	<b>H</b> Hexcell Louver

### **SN00T**

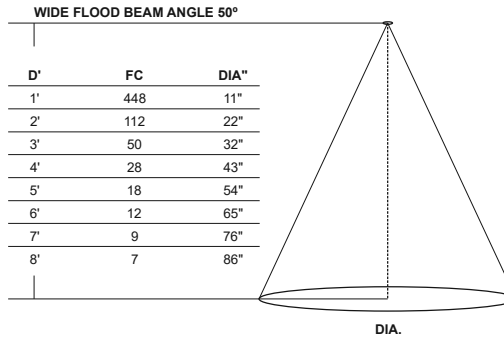
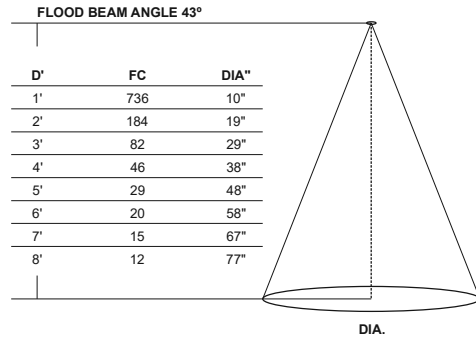
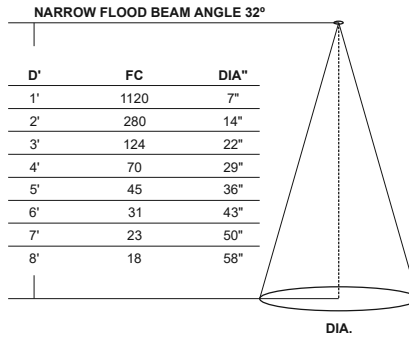
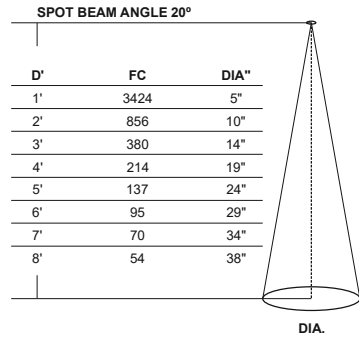
Product	Finish
<b>STB16</b>	<b>BK</b>
<b>STB16</b> Conical Snoot	<b>BK</b> Black

# **LUCA 3.5" DMX/DALI TRUCOLOR™ RGBTW** 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

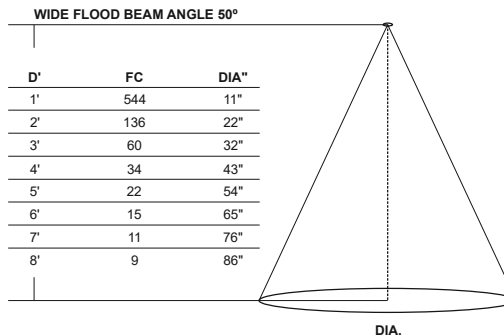
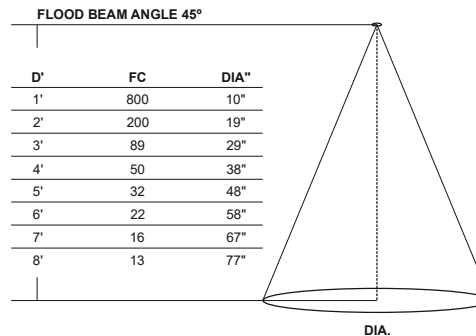
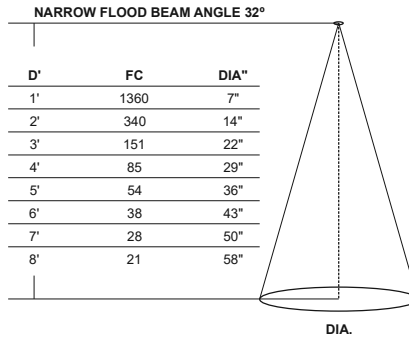
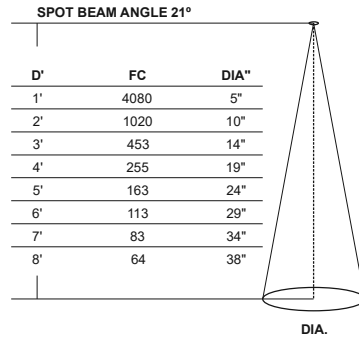
## **LUCA 3.5 FOOT CANDLE DISTRIBUTION**

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

### **14W at 3000K**



### **19W at 3000K**

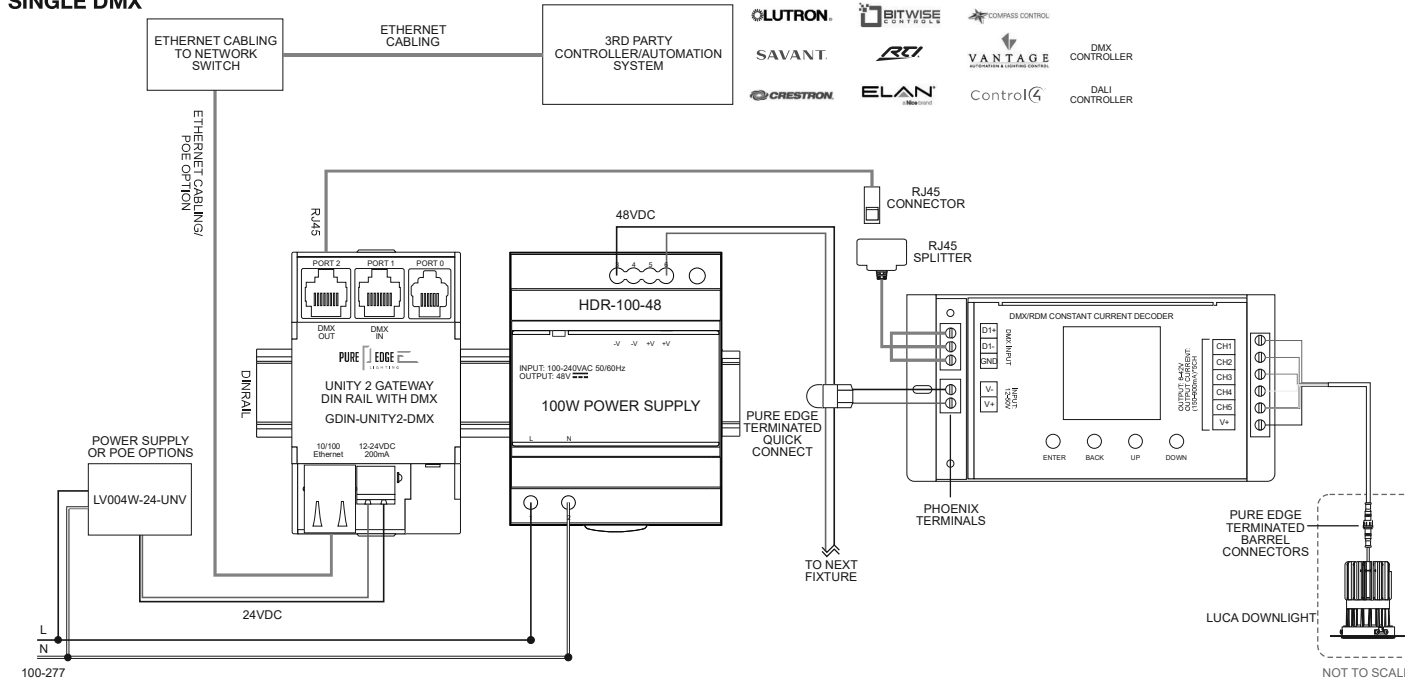


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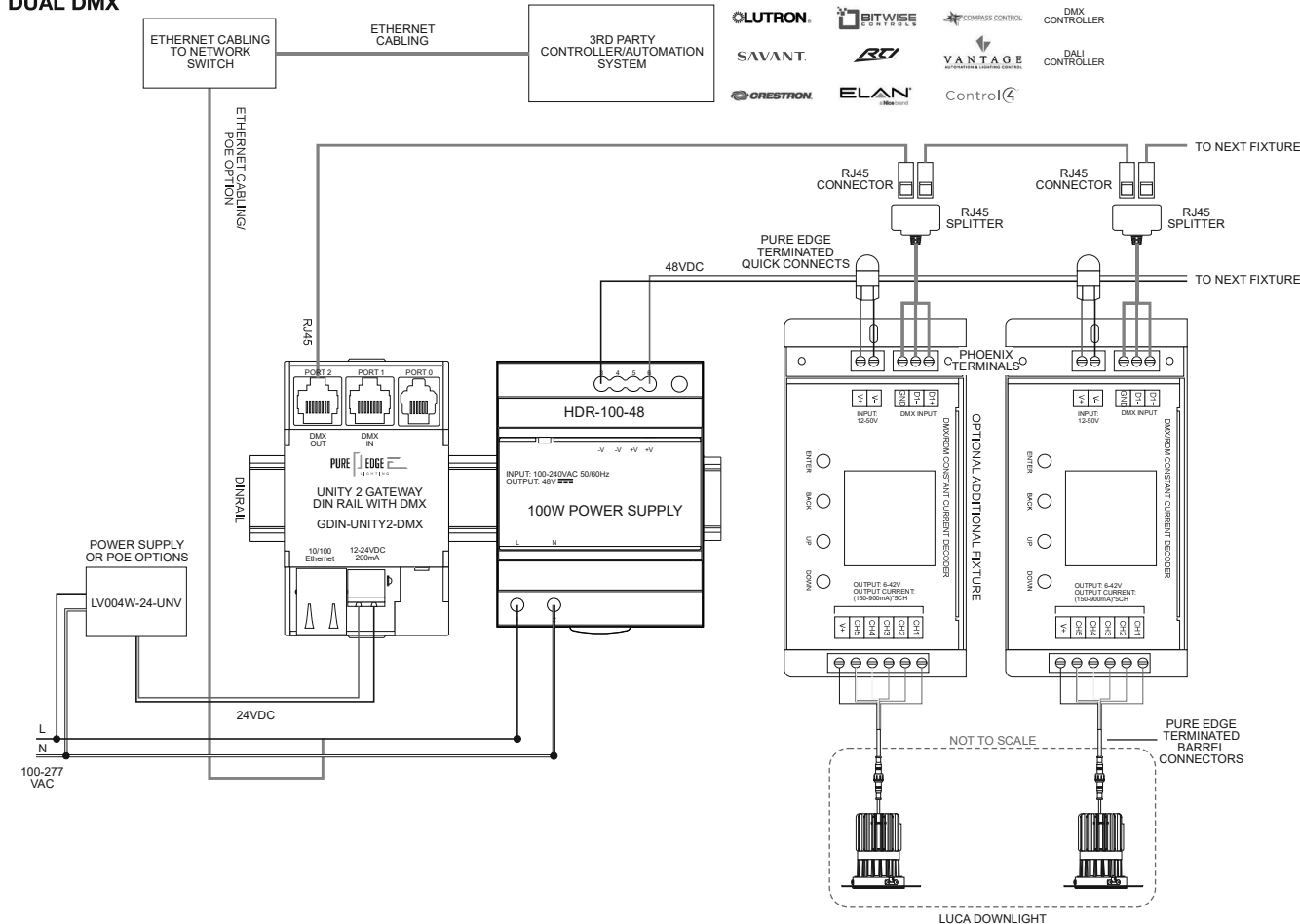
# **LUCA 3.5" DMX/DALI TRUCOLOR™ RGBTW** 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

## **NETWORK TOPOLOGY**

### **SINGLE DMX**



### **DUAL DMX**



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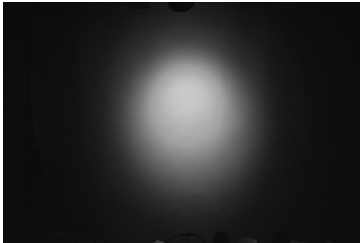
# **LUCA 3.5" DMX/DALI TRUCOLOR™ RGBTW** 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

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

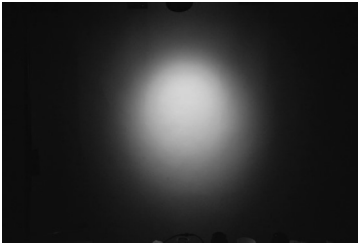
REV 09.19.25



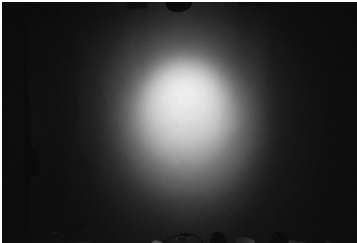
1800K - w/Red Aura Effect



2200K - w/Dark Orange Aura Effect



2400K - No Aura Effect



2700K - w/Amber Aura Effect



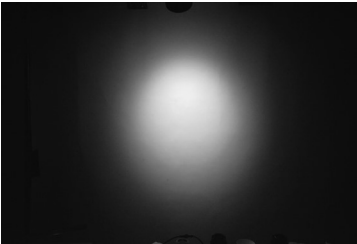
3000K - w/Amber Aura Effect



3500K - w/Amber Aura Effect



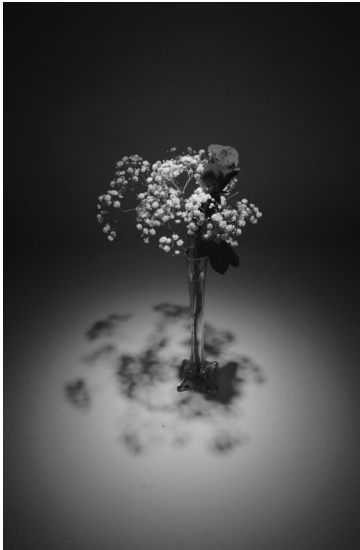
4000K - No Aura Effect



6500K - w/ Slight Blue Aura Effect



Red



Green

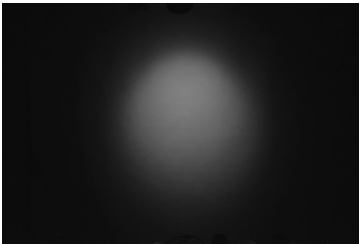


Blue

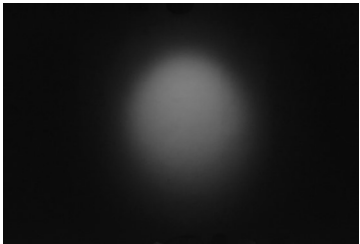


Violet

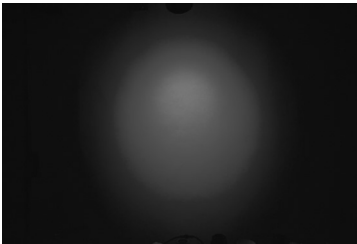
**NF-A BEAM SPREAD AURA EFFECT RED, GREEN, BLUE (RGB)**



Red - No Aura Effect



Green - No Aura Effect



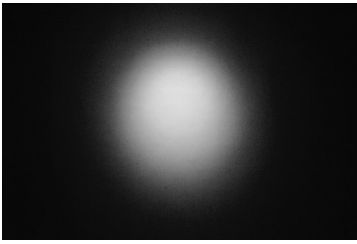
Blue - No Aura Effect



Red Pastel Aura Effect



Green Pastel Aura Effect



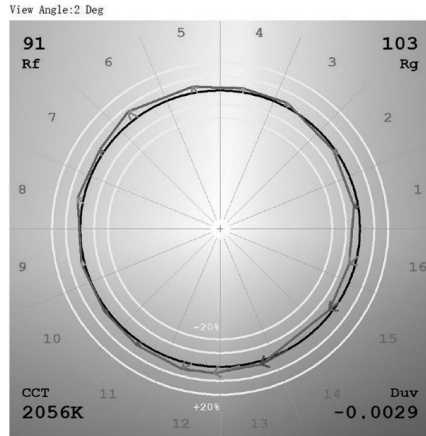
Blue Pastel Aura Effect

PROJECT		FIXTURE TYPE		DATE	
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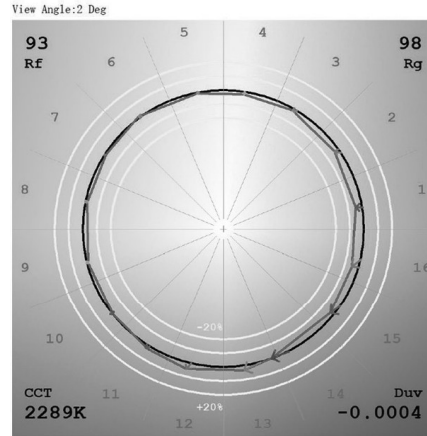
# **LUCA 3.5" DMX/DALI TRUCOLOR™ RGBTW** 48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

**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.

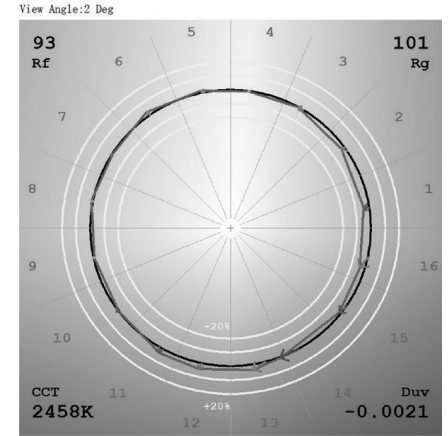
**2000K (TruColor™ RGBTW)**



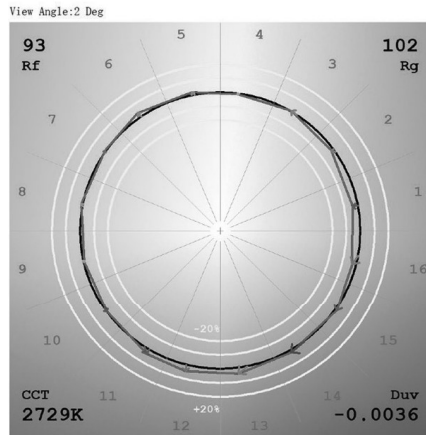
**2200K (TruColor™ RGBTW)**



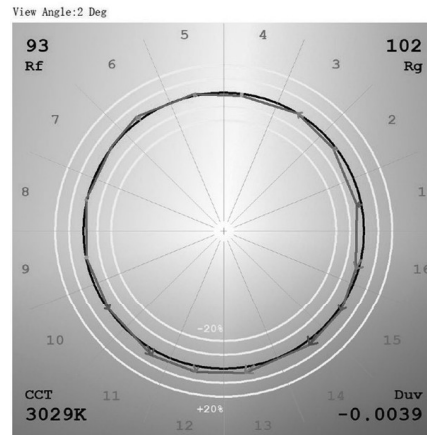
**2400K (TruColor™ RGBTW)**



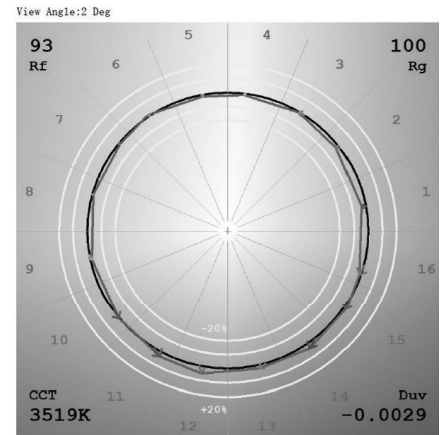
**2700K (TruColor™ RGBTW)**



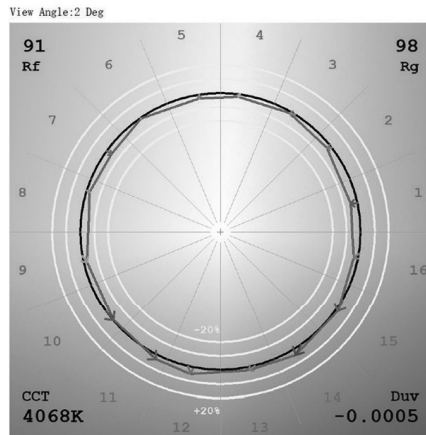
**3000K (TruColor™ RGBTW)**



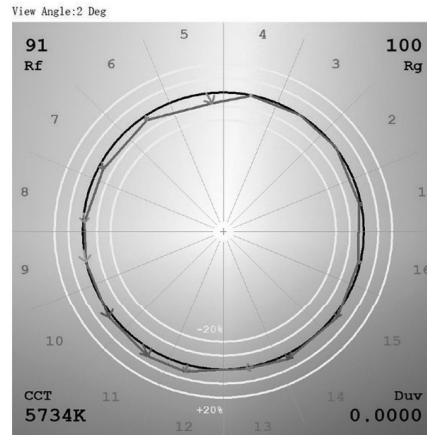
**3500K (TruColor™ RGBTW)**



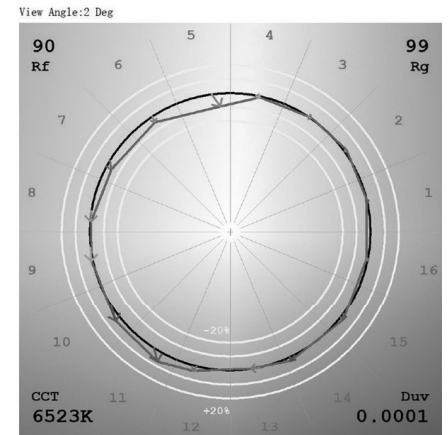
**4000K (TruColor™ RGBTW)**



**5700K (TruColor™ RGBTW)**



**6500K (TruColor™ RGBTW)**



PROJECT		FIXTURE TYPE		DATE	
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