

# 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](mailto:design@PureEdgeLighting.com)

## SPECIFICATIONS

<b>TRIM OPTIONS</b>	Trim, Trimless, Round, Square, for both Fixed & Adjustable		<b>CONTROLS</b>	Keypads from: Lutron, Crestron, Vantage, Elan, Savant, Control 4, RTI, URC, Bit Wise, and Compass Control
<b>FINISH</b>	Reflector: White, Black, Haze, (Satin Silver, low-glare) Trim: White, Black			
<b>ADJUSTABLE</b>	30° Tilt, 360° rotation		<b>SYSTEM</b>	Gateway Unity 2
<b>OPTICS</b>	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		<b>DIMMING RANGE</b>	Dimmable from 100% - 0.1%
<b>WATTAGE (NOMINAL)</b>	14W	19W	<b>POWER SUPPLY</b>	48 Volt Power Supply
<b>TOTAL LUMENS @ 3000K, 30°</b>	641Lm	854Lm	<b>CUT OUT SIZE</b>	Round: Ø 3", Square: 3"
<b>EFFICACY</b>	51Lm/W	60Lm/W	<b>CEILING THICKNESS</b>	0.5" - 1"
<b>CCT</b>	16 million colors RGBTW, CCT 1500K-6500K		<b>ENVIRONMENT</b>	Suitable for damp locations
<b>CRI AVERAGE</b> FROM 2000K-5500K	92+		<b>CERTIFICATIONS</b>	ETL Listed. Meets Title 24 (JA8) requirements. Downlight Trim - Wet Listed. <b>Adjustable</b> - Damp listed* *Glass Lens to be used in showers and similar environment
<b>INPUT VOLTAGE</b>	48 Volt, Eco-consciousness Class 2 Wiring		<b>AVERAGE LIFE</b>	50,000 Hours
<b>CONSTRUCTION</b>	IC Housing and NIC Frame: Galvanized Steel Heat Sink, Trims and Reflectors: Die-Cast Aluminum		<b>WARRANTY</b>	5 Years *See published warranty terms for detailed information
<b>ACCESSORIES</b>	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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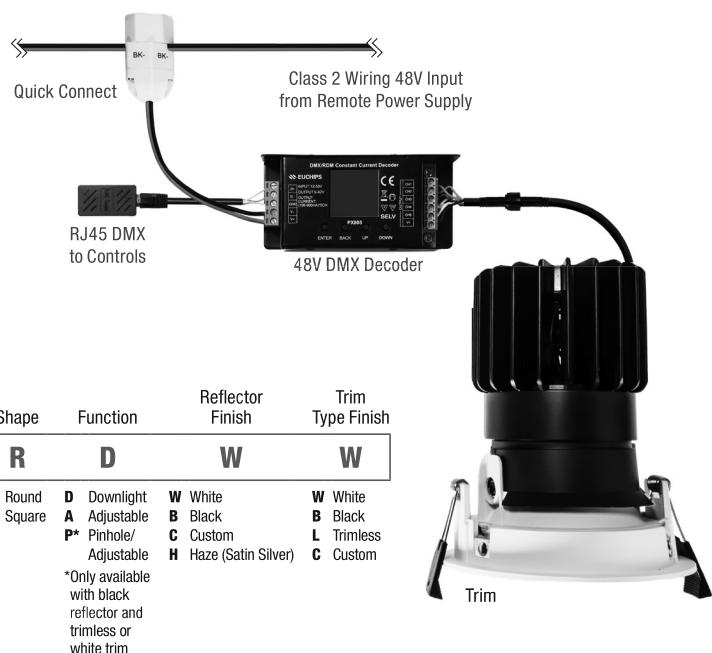
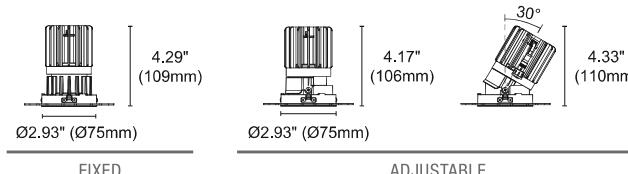
# LUCA 2.7" DMX/DALI TRUCOLOR™ RGBTW

48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

## 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.



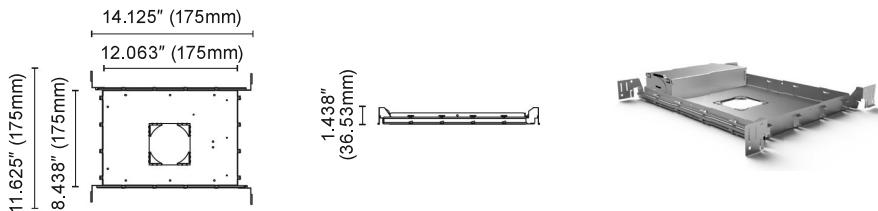
System	Wattage	Beam Spread	Control System	Color Temperature	Shape	Function	Reflector Finish	Trim Type Finish
<b>L27L</b>	<b>19W</b>	<b>NF</b>	<b>DMX</b>	<b>TC</b>	<b>R</b>	<b>D</b>	<b>W</b>	<b>W</b>
L27L Luca 2.7 Light Engine 24V Low Voltage Input	14W 13.5 Watts 19W 18.5 Watts	SP Spot 25° NF Narrow Flood 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
<b>L27L</b>	<b>NCF</b> - <b>NIC</b>

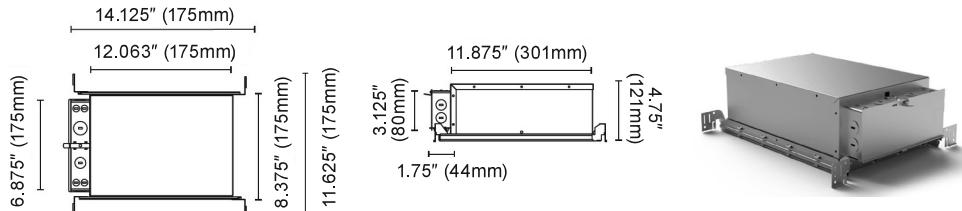
L27L Luca 2.7 Downlight NCF New Construction Frame NIC Non-Insulation Contact



### NEW CONSTRUCTION HOUSING IC

Product	Type
<b>L27L</b>	<b>NCH</b> - <b>IC</b>

L27L Luca 2.7 Downlight NCF New Construction Housing IC Insulation Contact



### NOMINAL DELIVERED LUMENS

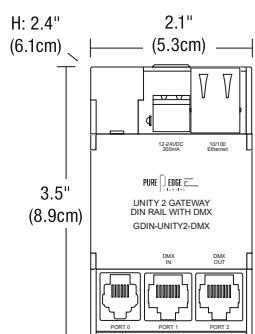
WATTS	30 DEGREES										19W									
	14W										19W									
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K		
LUMENS	389	427	483	599	641	673	711	673	632	525	619	679	756	854	980	1157	807	693		
LUMENS PER WATT (lm/w)	29	32	37	48	51	53	54	50	47	49	52	54	57	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

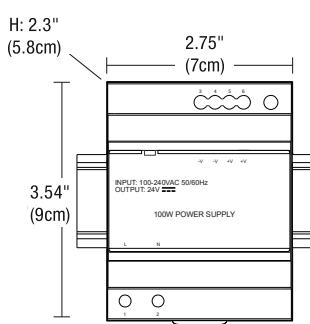
## REQUIRED COMPONENTS



### 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
<b>GDIN</b>	<b>UNITY2</b>	<b>DMX</b>
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
<b>HDR</b>	<b>100</b>	<b>48</b>
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.

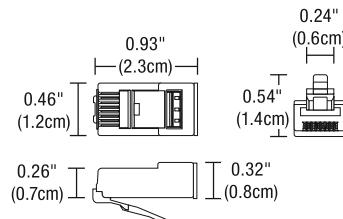
Product	Gauge	Class	Conductors	Product	Wattage	Voltage
<b>WIR</b>	<b>14</b>	<b>CL2</b>	<b>BR</b>	<b>WIR</b>	<b>14</b>	<b>48</b>
WIR Wire	14 14AWG (American Wire Gauge)	CL2 Class 2	BR Black & Red Conductors	50FT	50 foot roll	

100FT 100 foot roll

### HDR-100-48 Load Calculations

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

## OPTIONAL COMPONENTS



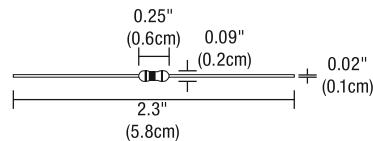
### TERMINATOR RESISTOR FOR RJ45 CONNECTION

1200ohmΩ resistor with RJ45 connection. Used to terminate the last device in the DMX chain. **NOT FOR USE WITH DALI**.

Product	System
<b>RJ45T</b>	<b>DMX</b>

RJ45T RJ45 Terminator Resistor

DMX DMX



### TERMINATOR RESISTOR WITH LEADS

1200ohmΩ resistor with traditional hardwired leads. Used to terminate the last device in the DMX chain. **NOT FOR USE WITH DALI**.

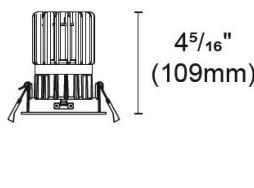
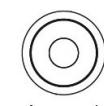
Product	System
<b>RT</b>	<b>DMX</b>

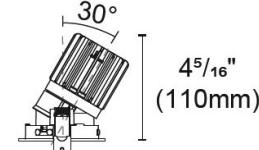
RT Resistor Terminator

DMX DMX

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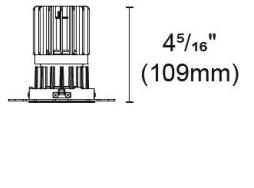
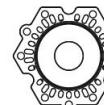
**LUCA 2.7 WALL WASH TRIM OPTIONS**
**Fixed Downlight**

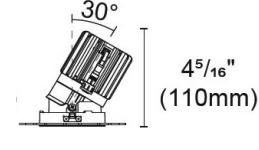
**Round Trim**

 $4\frac{5}{16}''$   
(109mm)

 $\varnothing 2\frac{3}{4}'' (\varnothing 70mm)$   
 $\varnothing 3\frac{7}{16}'' (\varnothing 88mm)$ 
**Adjustable Downlight**

**Round Trim**

 $30^\circ$ 
 $4\frac{5}{16}''$   
(110mm)

**Round Trim Pinhole**

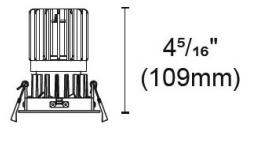
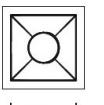
 $\varnothing 2\frac{3}{4}'' (\varnothing 70mm)$   
 $\varnothing 3\frac{7}{16}'' (\varnothing 88mm)$ 

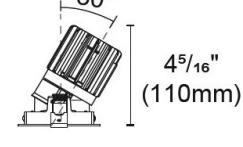
**Round Trimless**

 $4\frac{5}{16}''$   
(109mm)

 $\varnothing 2\frac{3}{4}'' (\varnothing 70mm)$   
 $\varnothing 4\frac{3}{4}'' (\varnothing 121mm)$ 

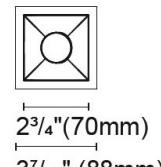
**Round Trimless**

 $30^\circ$ 
 $4\frac{5}{16}''$   
(110mm)

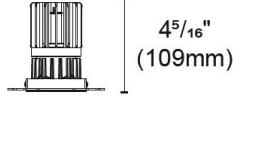
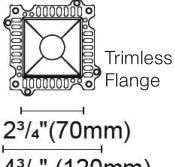
**Round Trimless Pinhole**

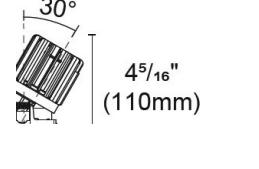
 $\varnothing 2\frac{3}{4}'' (\varnothing 70mm)$   
 $\varnothing 4\frac{3}{4}'' (\varnothing 121mm)$ 

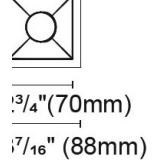
**Square Trim**

 $4\frac{5}{16}''$   
(109mm)

 $2\frac{3}{4}'' (70mm)$   
 $3\frac{7}{16}'' (88mm)$ 

**Square Trim**

 $30^\circ$ 
 $4\frac{5}{16}''$   
(110mm)

**Square Trim Pinhole**

 $2\frac{3}{4}'' (70mm)$   
 $3\frac{7}{16}'' (88mm)$ 

**Square Trimless**

 $4\frac{5}{16}''$   
(109mm)

 $2\frac{3}{4}'' (70mm)$   
 $4\frac{3}{4}'' (120mm)$ 

**Square Trimless**

 $30^\circ$ 
 $4\frac{5}{16}''$   
(110mm)

**Square Trimless Pinhole**

 $2\frac{3}{4}'' (70mm)$   
 $3\frac{7}{16}'' (88mm)$ 

PROJECT	FIXTURE TYPE	DATE
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**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**

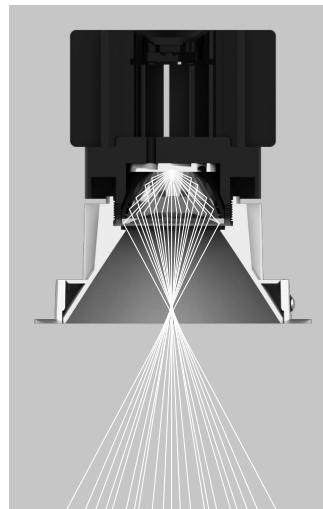
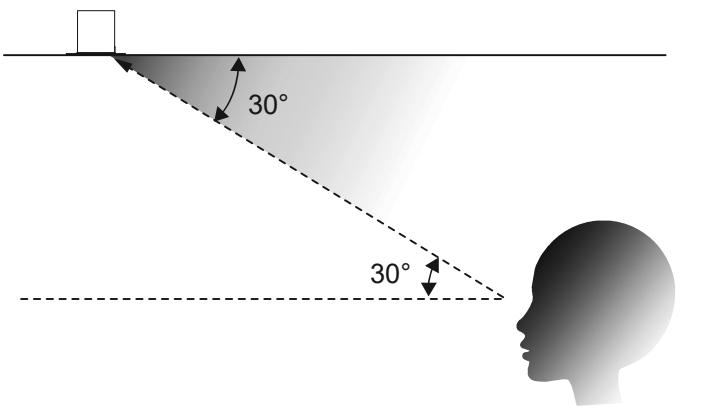
**Haze Reflector**

**Pinhole Trim**


PROJECT	FIXTURE TYPE	DATE
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**BEAM SPREAD & LENSES**
**LOW GLARE BAFFLE**

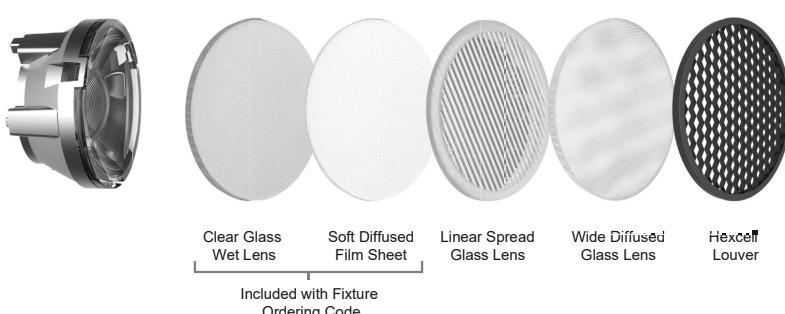
Designed with a 30 degree cut-off angle, the Luca provides high output and efficiency while maximizing visual comfort.


**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
<b>OPL</b>	<b>L27</b>	<b>NF</b>	<b>35MM</b>	<b>15MM</b>
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
<b>GL13</b>	<b>L</b>
GL13 Glass 1 5/8" (40mm) Diameter	C Clear Glass Wet Lens L Linear Spread Glass Lens W Wide Diffuse Glass Lens S Soft Diffusion Film H Hexcell Louver
LF13 Lens Film 1 5/8" (40mm) Diameter	
LO13 Louver 1 5/8" (40mm) Diameter	

PROJECT	FIXTURE TYPE	DATE
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# LUCA 2.7" DMX/DALI TRUCOLOR™ RGBTW

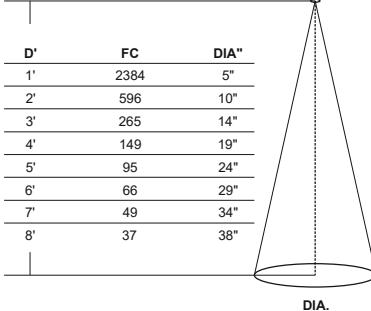
48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

## LUCA 2.7 FOOT CANDLE DISTRIBUTION

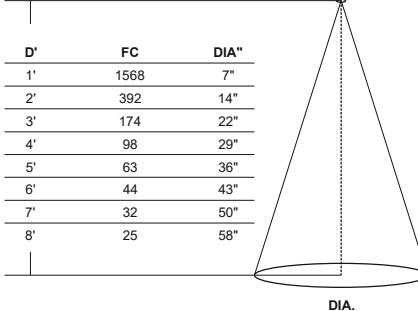
D - Distance From Luca fixture, FC - Initial foot candles at the center of beam, DIA - Diameter

### 14W at 3000K

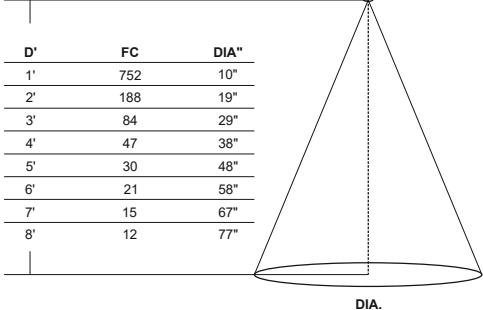
SPOT BEAM ANGLE 25°



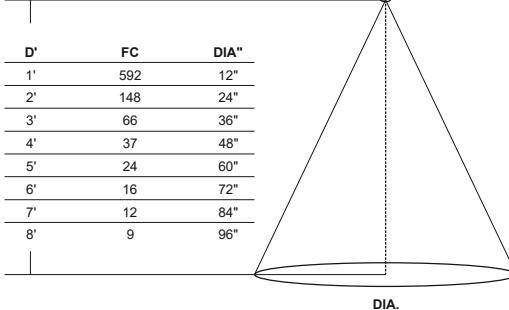
NARROW FLOOD BEAM ANGLE 35°



FLOOD BEAM ANGLE 45°

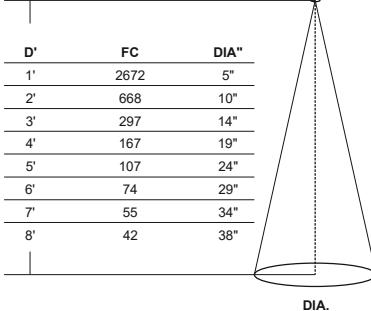


WIDE FLOOD BEAM ANGLE 55°

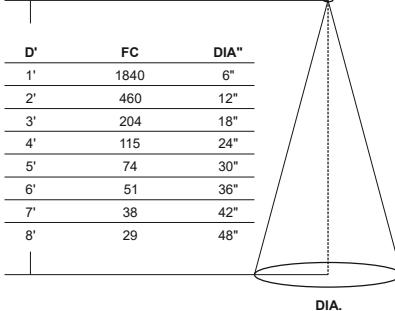


### 19W at 3000K

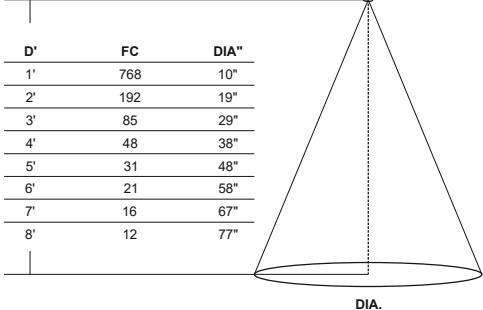
SPOT BEAM ANGLE 25°



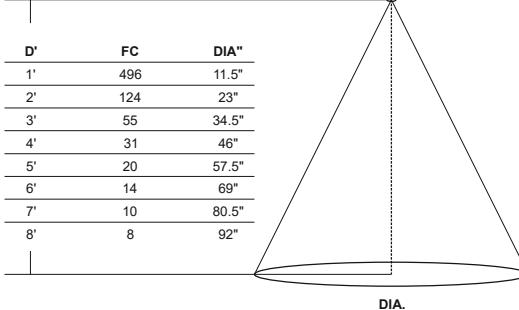
NARROW FLOOD BEAM ANGLE 35°



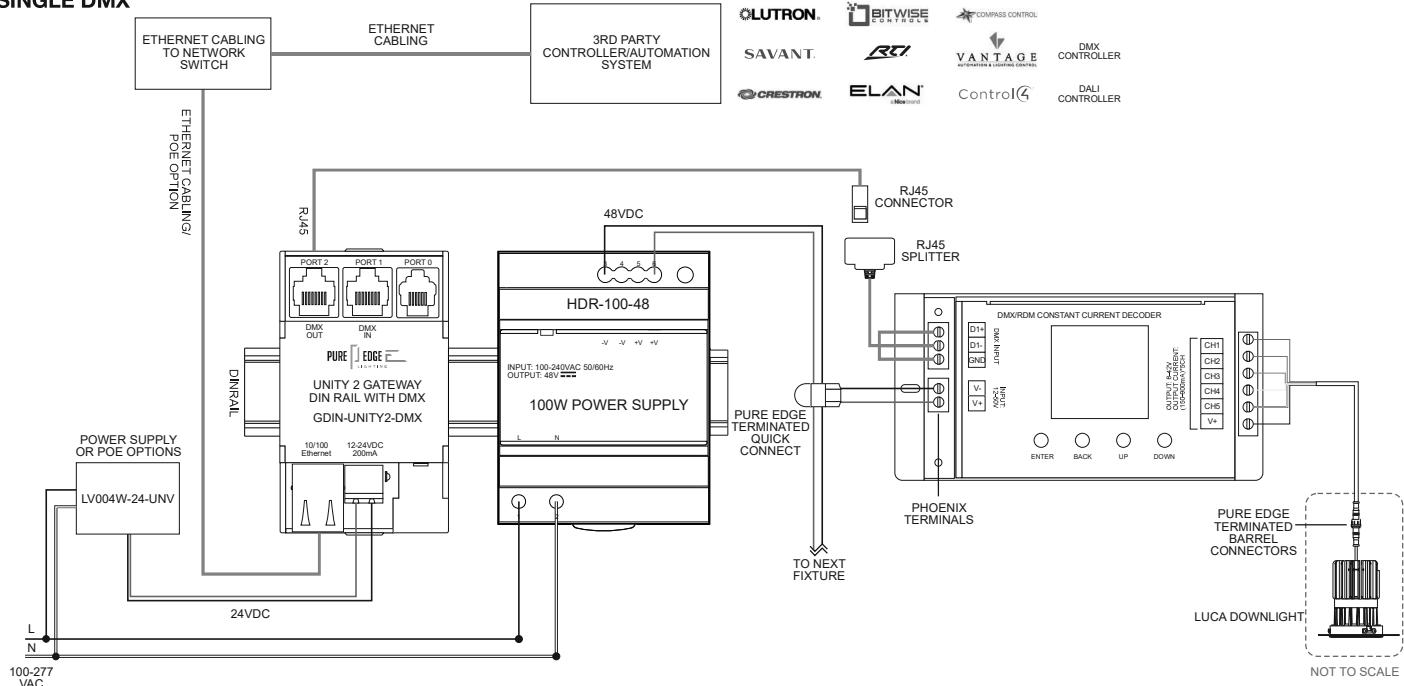
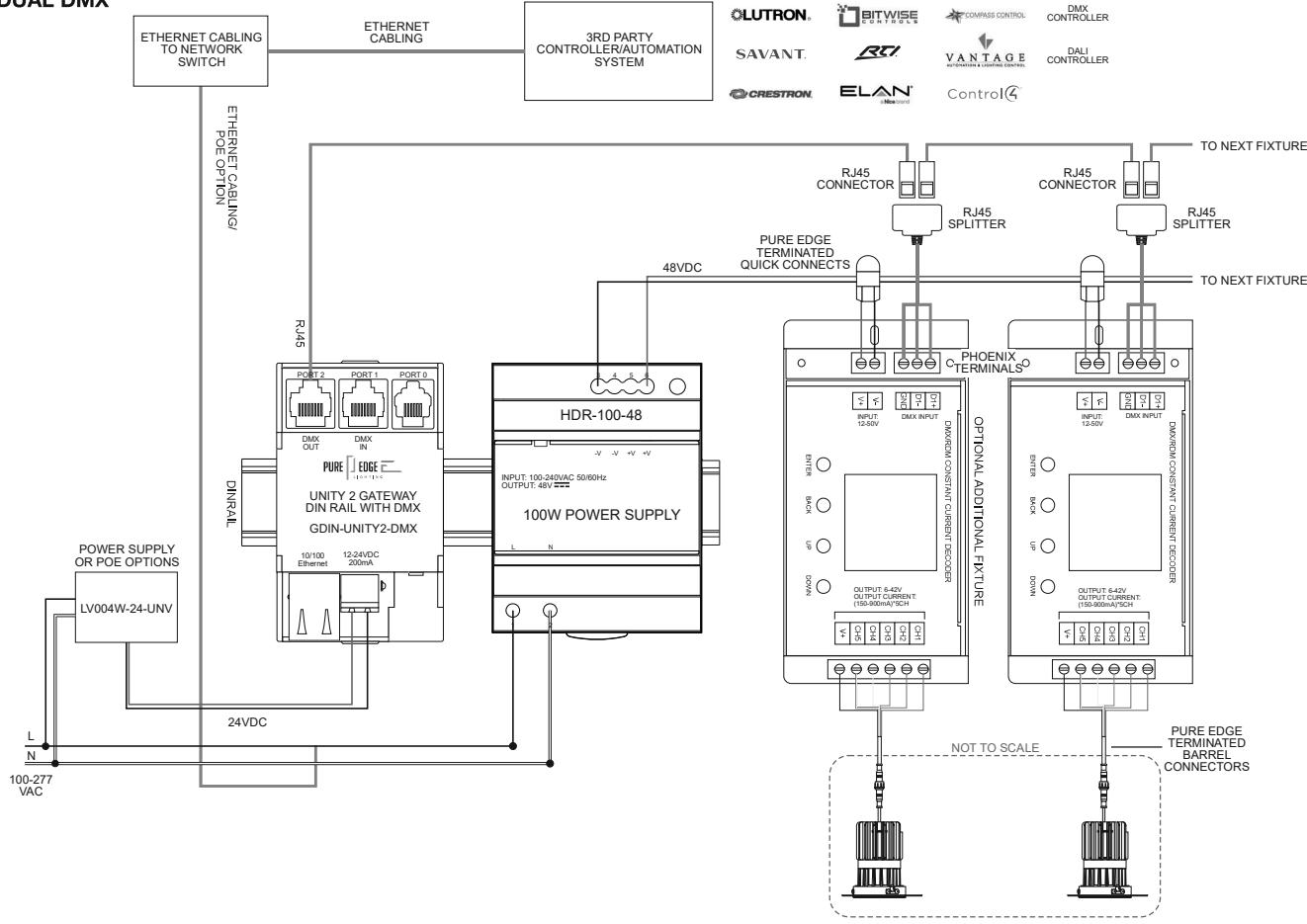
FLOOD BEAM ANGLE 45°



WIDE FLOOD BEAM ANGLE 55°



PROJECT	FIXTURE TYPE	DATE
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**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



1500K - w/Red Aura Effect



1800K - w/Red Aura Effect



2000K - w/Red Aura Effect



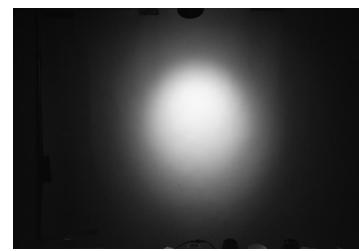
2200K - w/Dark Orange Aura Effect



2400K - No Aura Effect



2700K - w/Amber Aura Effect



3000K - w/Amber Aura Effect



3500K - w/Amber Aura Effect



4000K - No Aura Effect



4500K - w/Slight Blue Aura Effect



5000K - w/Slight Blue Aura Effect



5500K - 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

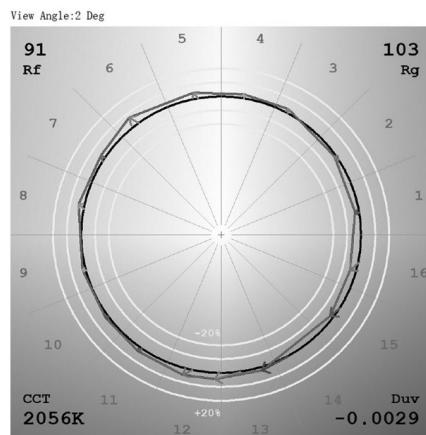
PROJECT	FIXTURE TYPE	DATE
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# TM30 DATA

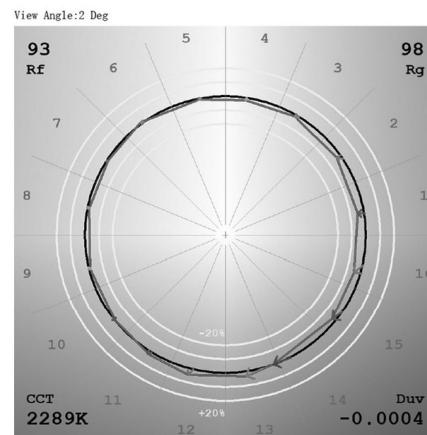
48V CLASS 2, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

**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.

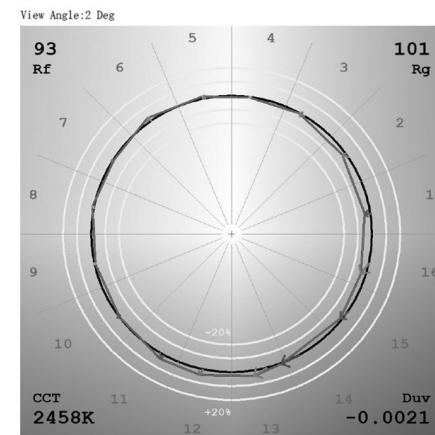
## 2000K (TruColor™ RGBTW)



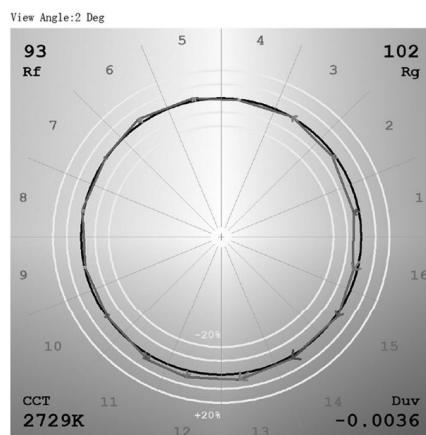
## 2200K (TruColor™ RGBTW)



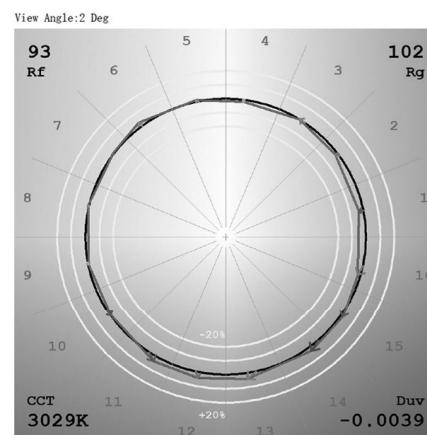
## 2400K (TruColor™ RGBTW)



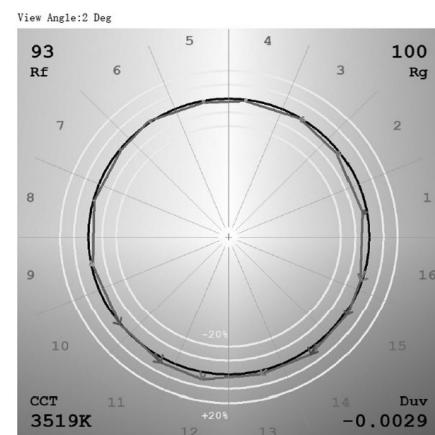
## 2700K (TruColor™ RGBTW)



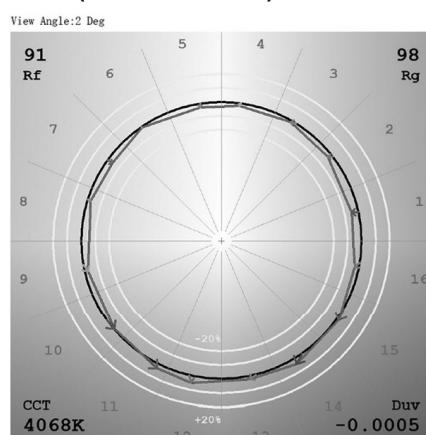
## 3000K (TruColor™ RGBTW)



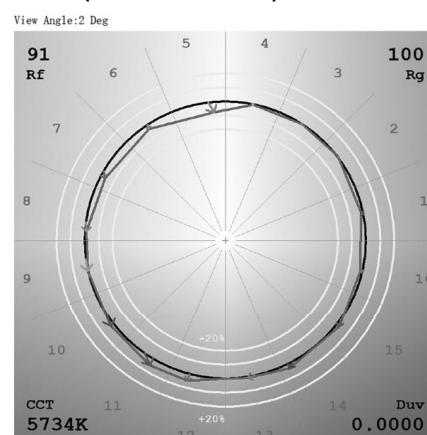
## 3500K (TruColor™ RGBTW)



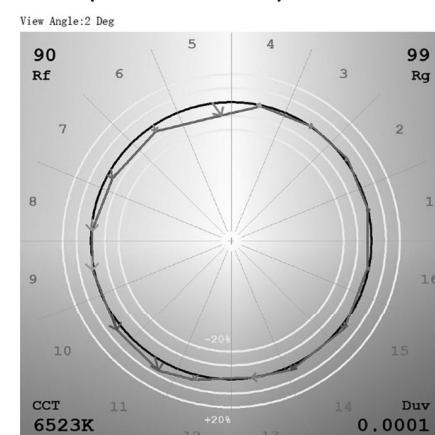
## 4000K (TruColor™ RGBTW)



## 5700K (TruColor™ RGBTW)



## 6500K (TruColor™ RGBTW)



PROJECT	FIXTURE TYPE	DATE
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