LUCA 2.7" DMX/DALI TRUCOLOR™ RGBTW
48V CLASS 2, RECESSED WALL WASH DOWNLIGHTS

PURE EDGE
Pure Smart Lighting

Wall Wash (Square)

Wall Wash (Round Trimless)

Wall Wash (Round)

DESCRIPTION

Introducing Luca 2.7 "The Bringer of Light" Wall Wash Downlight series with **TruColor™ RGBTW** technology, 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.

Experience the near-infinite color spectrum of Luca 2.7, a cutting-edge, recessed downlight that embodies its Latin namesake as a "Bringer of Light." TruColor™ LED technology produces over 16 million colors and tunable white light from 1500K to 6500K, with an average CRI of 92. This results in natural and vibrant light that accurately reflects the colors of objects around it.

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.

Join us in creating a brighter and more sustainable world with Luca 2.7 and class 2 wiring, the ultimate "Bringer of Light." For custom quotes and layout assistance, send your drawings and ideas to 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'es 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, 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™** transform your space and the people within it. **TruColor™ RGBTW** is optimized for control with WiZ Pro Wi-Fi based smart control system.

SPECIFICATIONS

TRIM OPTIONS	Trim, Trimless, Round, & Square	
FINISH	Reflector: White, Black, Haze, (Satin Silver, low-glare) Trim: White, Black	
BEAM ANGLE	Asymmetrical	
OPTICS	20% more lumens without filter	
WATTAGE (NOMINAL)	14W	19W
TOTAL LUMENS @ 3000K	468Lm	624Lm
EFFICACY	37Lm/W	40Lm/W
CCT	16 million colors RGBTW, CCT 1500K-6500K	
CRI AVERAGE FROM 2000K-5500K	92+, at any point on the black body curve from 2000K to 5500K	
INPUT VOLTAGE	48Volt, Class 2 Wiring	

CONTROLS	Keypads from: Lutron, Crestron, Vantage, Elan, Savant, Control 4, RTI,URC, Bit Wise, and Compass Control
SYSTEM	Gateway Unity 2
DIMMING RANGE	Dimmable from 100% - 0.1%
POWER SUPPLY	48V Power Supply
CUT OUT SIZE	Round: Ø 3" Square: 3"
CEILING THICKNESS	0.5" - 1"
ENVIRONMENT	Suitable for damp locations
CERTIFICATIONS	ETL Listed, Class 2, Meets Title 24 (JA8) requirements
AVERAGE LIFE	50,000 Hours
WARRANTY	5 Years *See published warranty terms for detailed information

PROJECT		FIXTURE TYPE		DATE	

LUCA 2.7" DMX/DALI TRUCOLOR™ RGBTW
48V CLASS 2, RECESSED WALL WASH DOWNLIGHTS
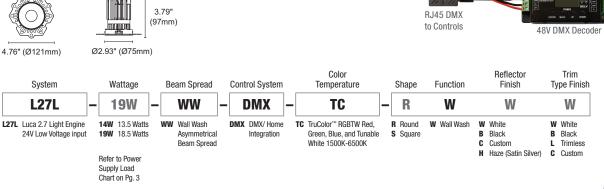
PURE EDGE
Pure Smart Lighting

Light Engine with Trim & 48VDC Low Voltage Smart Driver

REV 05.28.25

REMODEL NON-IC (Included with Standard Ordering Code)

Luca 2.7 comes complete with a DMX Decoder with 48VDC Input Class 2 Wiring ith a remote power supply, up to 1000 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.
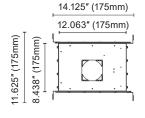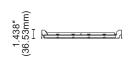
Quick Connect

Class 2 Wiring 48V Input
from Remote Power Supply

RJ45 DMX to Controls

48V DMX Decoder

Trim

4.76" (Ø121mm) | Ø2.93" (Ø75mm) | 3.79" (97mm)

System	Wattage	Beam Spread	Control System	Color Temperature	Shape	Function	Reflector Finish	Trim Type Finish
L27L	**19W**	**WW**	**DMX**	**TC**	**R**	**W**	**W**	**W**

L27L Luca 2.7 Light Engine 24V Low Voltage input

14W 13.5 Watts
19W 18.5 Watts

Refer to Power Supply Load Chart on Pg. 3

WW Wall Wash Asymmetrical Beam Spread

DMX DMX/ Home Integration

TC TruColor™ RGBTW Red, Green, Blue, and Tunable White 1500K-6500K

R Round
S Square

W Wall Wash

W White
B Black
C Custom
H Haze (Satin Silver)

W White
B Black
L Trimless
C Custom

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

14.125" (175mm)
12.063" (175mm)
11.625" (175mm)
8.438" (175mm)
1.438" (36.53mm)

NEW CONSTRUCTION HOUSING IC

Product	Type	
L27L	**NCH**	**IC**

L27L Luca 2.7 Downlight
NCF New Construction Housing
IC Insulation Contact

14.125" (175mm)
12.063" (175mm)
6.875" (175mm)
8.375" (175mm)
11.625" (175mm)
11.875" (301mm)
3.125" (80mm)
1.75" (44mm)
4.75" (121mm)
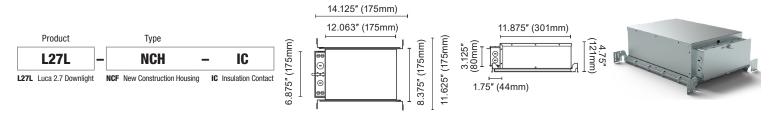
NOMINAL LAMP DATA

DESCRIPTION	L27L-14W									L27L-19W								
WATTS PER FOOT	14W									19W								
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS PER FOOT (lm/ft)	284	312	353	438	468	491	519	491	461	383	452	495	552	624	715	845	589	506
LUMENS PER WATT (lm/w)	22	24	27	35	37	39	39	37	34	33	35	36	38	40	43	46	47	46
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	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	
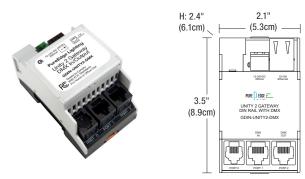
LUCA 2.7" DMX/DALI TRUCOLOR™ RGBTW
48V CLASS 2, RECESSED WALL WASH DOWNLIGHTS

REQUIRED COMPONENTS

H: 2.4" (6.1cm) 2.1" (5.3cm)

3.5" (8.9cm)

12-24VDC 200mA 10/100 Ethernet

PURE EDGE
UNITY 2 GATEWAY
DIN RAIL WITH DMX
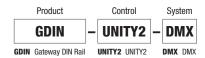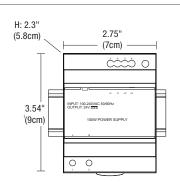GDIN-UNITY2-DMX

DMX IN DMX OUT

PORT 0 PORT 1 PORT 2

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

H: 2.3" (5.8cm) 2.75" (7cm)

3.54" (9cm)

INPUT: 100-240VAC 50/60Hz
OUTPUT: 24V ---

100W POWER SUPPLY

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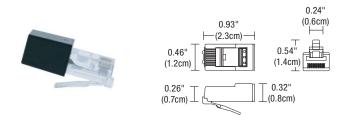
Product	Wattage	Voltage
HDR	**100**	**48**
HDR Din Rail Power Supply	**100** 100 Watts, 2 Amp Max	**48** 48 Volts DC

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

0.24" (0.6cm) 0.93" (2.3cm) 0.46" (1.2cm) 0.54" (1.4cm) 0.26" (0.7cm) 0.32" (0.8cm)
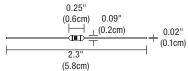
TERMINATOR RESISTOR FOR RJ45 CONNECTION

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

0.25" (0.6cm) 0.09" (0.2cm) 0.02" (0.1cm) 2.3" (5.8cm)

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	

REV 05.28.25

LUCA 2.7 WALL WASH TRIM OPTIONS

Wall Wash - Round

Round Trim
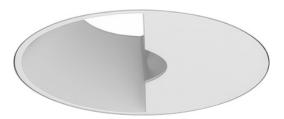
3¹³/₁₆" (97mm)

Ø2³/₄"(Ø70mm)
Ø3⁷/₁₆"(Ø88mm)

Round Trimless

3¹³/₁₆" (97mm)

Trimless Flange

Ø2³/₄"(Ø70mm)
Ø4³/₄"(Ø121mm)

Wall Wash - Square

Square Trim

3¹³/₁₆" (97mm)
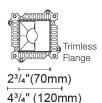
2³/₄"(70mm)
3⁷/₁₆" (88mm)
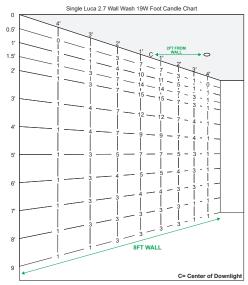
Square Trimless

3¹³/₁₆" (97mm)

Trimless Flange
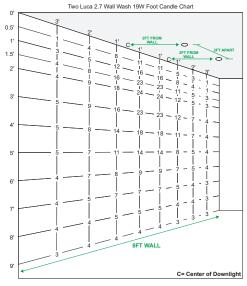
2³/₄"(70mm)
4³/₄" (120mm)

LUCA 2.7, 19W WALL WASH FOOT CANDLE DISTRIBUTION WITH 9FT CEILING

Single Luca 2.7 Wall Wash 19W Foot Candle Chart

Two Luca 2.7 Wall Wash 19W Foot Candle Chart

PROJECT		FIXTURE TYPE		DATE	

LUCA 2.7 TRIM & REFLECTOR OPTIONS

ROUND

Black Trim	White Trim	Trimless
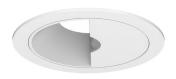
Black Reflector with Black Cover

White Reflector with White Cover
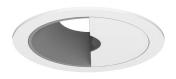
Haze Reflector with White Cover

SQUARE

Black Trim	White Trim	Trimless

Black Reflector with Black Cover

White Reflector with White Cover

Haze Reflector with White Cover

PROJECT		FIXTURE TYPE		DATE	
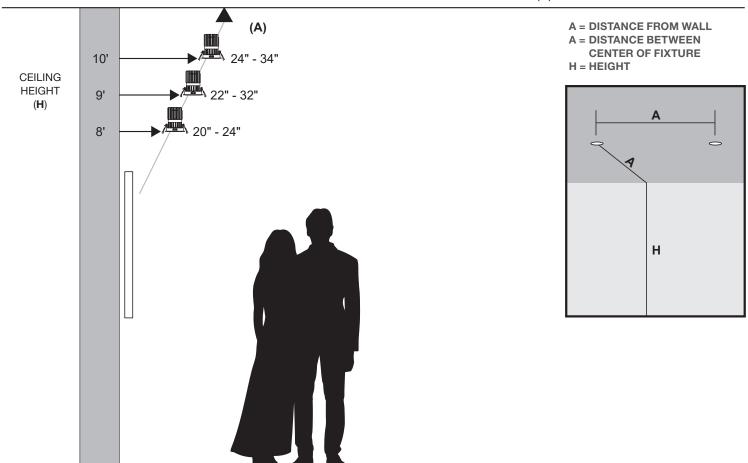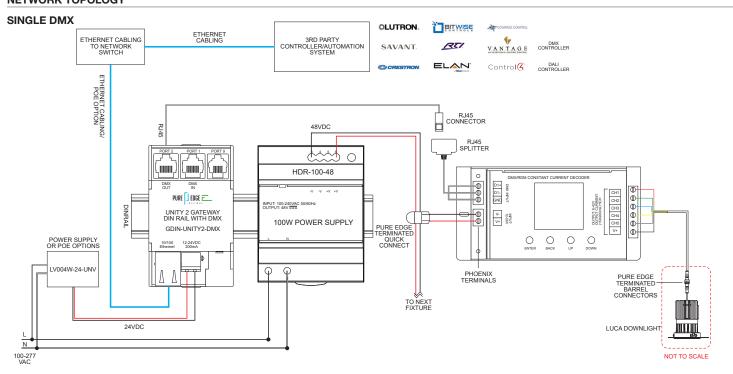
DISTANCE OUT AND BETWEEN CENTER OF FIXTURES (A)
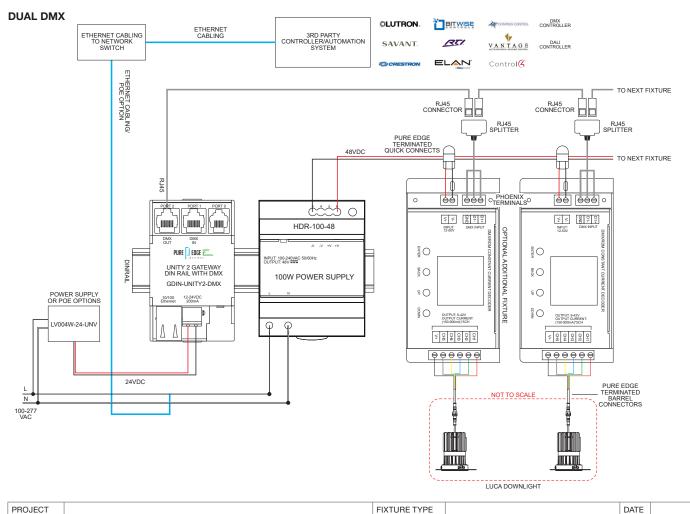
CEILING HEIGHT (H)

	(A)
10'	24" - 34"
9'	22" - 32"
8'	20" - 24"

A = DISTANCE FROM WALL
A = DISTANCE BETWEEN CENTER OF FIXTURE
H = HEIGHT

A

A

H

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48V CLASS 2, RECESSED WALL WASH DOWNLIGHTS

PURE EDGE
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NETWORK TOPOLOGY

SINGLE DMX

DUAL DMX

PROJECT		FIXTURE TYPE		DATE	
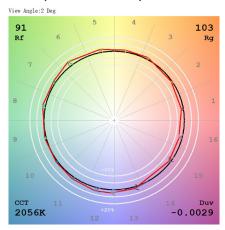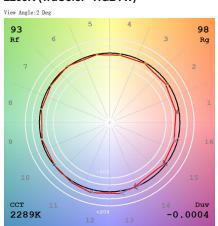
TM-30-15 DATA: The data below is for TruColor™ RGBTW. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.
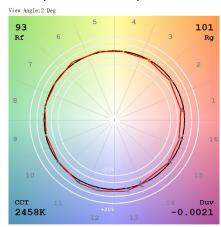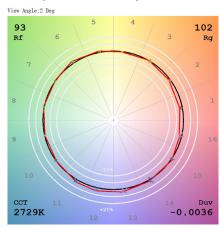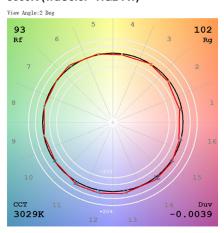
2000K (TruColor™ RGBTW)
View Angle:2 Deg

91 Rf	103 Rg
CCT 2056K	Duv -0.0029

2200K (TruColor™ RGBTW)
View Angle:2 Deg

93 Rf	98 Rg
CCT 2289K	Duv -0.0004

2400K (TruColor™ RGBTW)
View Angle:2 Deg

93 Rf	101 Rg
CCT 2458K	Duv -0.0021

2700K (TruColor™ RGBTW)
View Angle:2 Deg

93 Rf	102 Rg
CCT 2729K	Duv -0.0036

3000K (TruColor™ RGBTW)
View Angle:2 Deg

93 Rf	102 Rg
CCT 3029K	Duv -0.0039

3500K (TruColor™ RGBTW)
View Angle:2 Deg

93 Rf	100 Rg
CCT 3519K	Duv -0.0029

4000K (TruColor™ RGBTW)
View Angle:2 Deg

91 Rf	98 Rg
CCT 4068K	Duv -0.0005

5700K (TruColor™ RGBTW)
View Angle:2 Deg

91 Rf	100 Rg
CCT 5734K	Duv 0.0000

6500K (TruColor™ RGBTW)
View Angle:2 Deg

90 Rf	99 Rg
CCT 6523K	Duv 0.0001

PROJECT		FIXTURE TYPE		DATE	