LUCA 2.7" STATIC WHITE

120V-277V, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

REV 05.22.25

Fixed Downlight (Trim)

Adjustable Downlight (Trimless)

DESCRIPTION

Introducing the Luca 2.7 "The Bringer of Light" Downlight Series—a beacon of innovation in lighting technology. Designed for high-performance, these downlights are crafted to enhance hospitality, retail, commercial, and luxury residential environments. Featuring precision optics, the Luca downlights deliver a beam that reaches the very top of the wall, creating an elegant wash of light. With a Color Rendering Index (CRI) surpassing 90, these lights ensure exceptional color accuracy, making them an ideal choice for spaces where ambiance and visual clarity are paramount.

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 2.7 Downlight is versatile for a wide array of new construction and remodel applications. Moreover, the compact form factor of the Luca 2.7 allows for installation in spaces with limited clearance.

Discover a new era of lighting performance and versatility with the Luca 2.7 Downlight Series, 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

SPECIFICATIONS

TRIM OPTIONS	Trim, Trimless, Round, Square for Fixed & Adjustable		
FINISH	Reflector: White, Black, Haze Silver (low-glare), Trims: White, Black, Custom		
ADJUSTABLE	30˚ Tilt, 360˚ Rotation		
OPTICS	15˚, 25˚, 30˚, 40˚, 45˚, 55˚		
WATTAGE	16W	20W	24W
LUMENS @ 3000K, 30°	1123 Lm	1346 Lm	1507 Lm
EFFICACY	70 Lm/W	75 Lm/W	63 Lm/W
CCT	2400K, 2700K, 3000K, 3500K & 4000K		
AVERAGE CRI	90+		
INPUT VOLTAGE	120V ELV/TRIAC, 120V-277V & 0-10V & DALI/DMX		
CONSTRUCTION	Housing: 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		

DIMMING	Universal Dimming TRIAC/ELV: 100% – 3% 0-10V: 100% – 0.1% dim to off DALI2: 100% – 0.1% dim to off Pure Smart™ 100% – 5% Pure Smart™ Wi-Fi Dimmer TRIAC/ELV 2.4GHz Wi-Fi. No Hub needed. Voice control with Goggle Assistant, Alexa, Siri,Shortcuts, and IFTTT
CUT OUT SIZE	Round: Ø3", Square: 3"
CEILING THICKNESS	0.5" - 1"
ENVIRONMENT	Suitable for damp locations
CERTIFICATIONS	ETL Listed. Meets Title 24 (JA8) requirements. **Down Light Trim** - Wet Listed. **Adjustable** - Damp listed* *Glass Lens to be used in showers and similar environments
AVERAGE LIFE	50,000 Hours
WARRANTY*	5 Years *See published warranty terms for detailed information

	LUCA 2.7 STATIC WHITE														
WATTS PER FOOT	**16W**					**20W**					**24W**				
COLOR TEMPERATURE	24K	27K	30K	35K	40K	24K	27K	30K	35K	40K	24K	27K	30K	35K	40K
LUMENS	966	1078	1123	1146	1168	1158	1292	1346	1373	1400	1296	1447	1507	1537	1567
LUMENS PER WATT (lm/w)	60	67	70	72	73	64	72	75	76	78	54	60	63	64	65
CRI	93	93	93	93	93	92	92	92	92	92	92	92	92	92	92

PROJECT		FIXTURE TYPE		DATE	

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#1 Select LUCA 2.7 Beam, Color Temperature, Trim Options

System		Beam Spread		Color Temperature		Trim Shape	Trim Function	Reflector Finish	Trim Finish
L27	–	NF	–	27K	–	R	D	W	L

L27 Luca 2.7 Light Engine

NS* Narrow Spot 15°
SP Spot 25°
NF Narrow Flood 35°
FL Flood 45°
WF Wide Flood 55°
*NS: 16 Watt Only

24K* 2400K Very Warm White
27K 2700K Incandescent White
30K 3000K Warm White
35K 3500K Neutral White
40K 4000K Cool White
*Only available in NS

R Round
S Square

D Downlight
A Adjustable
P* Pinhole/Adjustable
*Only available with black reflector and trimless or white trim

W White
H Haze
B Black
C Custom

W White
B Black
L Trimless
C Custom

#2 Select Housing & Driver Type

REMODEL NON-IC with 120V DRIVER

Product		Housing Type		Rating Type		Wattage/Lumens		Dimming
L27	–	RM	–	NIC	–	20W	–	UN

L27 Luca 2.7 Downlight

RM Remodel

NIC Non-Insulation Contact

16W 16 Watts/1123 Lumens
20W 20 Watts/1346 Lumens
24W 24 Watts/1507 Lumens

UN TRIAC/MLV, ELV 120V Input
01 0-10V 120V/277V Input
DA DALI 2 120V/277V Input

NEW CONSTRUCTION FRAME NON-IC with 120V DRIVER

Product		Housing Type		Rating Type		Wattage/Lumens		Dimming
L27	–	NCF	–	NIC	–	20W	–	UN

L27 Luca 2.7 Downlight

NCF New Construction Frame

NIC Non-Insulation Contact

16W 16 Watts/1123 Lumens
20W 20 Watts/1346 Lumens
24W 24 Watts/1507 Lumens

UN TRIAC/MLV, ELV 120V Input
01 0-10V 120V/277V Input
DA DALI 2 120V/277V Input

NEW CONSTRUCTION HOUSING IC WITH 120V DRIVER

Product		Housing Type		Rating Type		Wattage/Lumens		Dimming
L27	–	NCH	–	IC	–	16W	–	UN

L27 Luca 2.7 Downlight

NCF New Construction Housing

IC Insulation Contact

16W 16 Watts/1123 Lumens

UN TRIAC/MLV, ELV 120V Input
01 0-10V 120V/277V Input
DA DALI 2 120V/277V Input

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LUCA 2.7 WALL WASH TRIM OPTIONS

Fixed Downlight

Round Trim

4⁵/₁₆" (109mm)

Ø2³/₄"(Ø70mm)

Ø3⁷/₁₆"(Ø88mm)

Round Trimless

4⁵/₁₆" (109mm)

Trimless Flange

Ø2³/₄"(Ø70mm)

Ø4³/₄"(Ø121mm)

Square Trim

4⁵/₁₆" (109mm)

2³/₄"(70mm)

3⁷/₁₆" (88mm)

Square Trimless

4⁵/₁₆" (109mm)

Trimless Flange

2³/₄"(70mm)

4³/₄" (120mm)

Adjustable Downlight

Round Trim

4⁵/₁₆" (110mm)

Round Trim Pinhole

Ø2³/₄"(Ø70mm)

Ø3⁷/₁₆"(Ø88mm)

Round Trimless

4⁵/₁₆" (110mm)

Round Trimless Pinhole

Trimless Flange

Ø2³/₄"(Ø70mm)

Ø4³/₄"(Ø121mm)

Square Trim

4⁵/₁₆" (110mm)

Square Trim Pinhole

2³/₄"(70mm)

3⁷/₁₆" (88mm)

Square Trimless

4⁵/₁₆" (110mm)

Square Trimless Pinhole

2³/₄"(70mm)

4³/₄" (120mm)

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LUCA 2.7 TRIM & REFLECTOR OPTIONS

ROUND TRIM

Black Trim	White Trim

Black Reflector

White Reflector

Haze Reflector

Pinhole Trim

SQUARE TRIM

Black Trim	White Trim

Black Reflector

White Reflector

Haze Reflector

Pinhole Trim

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BEAM SPREAD & LENSES

LOW GLARE REFLECTOR

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.

SELECT UP TO TWO ACCESSORIES

Clear Glass Wet Lens | Soft Diffused Film Sheet | Linear Spread Glass Lens | Wide Diffused Glass Lens | Hexcell Louver

Included with Fixture Ordering Code

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. Additionally, the Hexcell Louver is available for enhanced glare control.

REPLACEMENT OPTICS

Product		Type		Beam Spread*		Color Temperature
LEN	–	L2.7	–	NF	–	SW

LEN Lens
L2.7 Luca 2.7
SP Spot 25°
NF Narrow Flood 35°
FL Flood 45°
*Restrictions: NS & WF not available for replacement optics
SW Static White

Accessories (up to 2)

Product		Type
GL13	–	L

GL13 Glass 1 5/8" (40mm) Diameter
LF13 Lens Film 1 5/8" (40mm) Diameter
L013 Louver 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

PROJECT		FIXTURE TYPE		DATE	

LUCA 2.7 FOOT CANDLE DISTRIBUTION (CONTINUED)

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

16W at 3000K

NARROW SPOT
15°

D'	FC	DIA"
1'	7280	3.4"
2'	1820	6.6"
3'	809	9.8"
4'	455	13"
5'	291	16.2"
6'	202	19.4"
7'	149	22.6"
8'	114	25.8"

SPOT
25°

D'	FC	DIA"
1'	2304	5.4"
2'	576	10.8"
3'	256	16.2"
4'	144	21.6"
5'	92	27"
6'	64	32.4"
7'	47	37.8"
8'	36	43.2"

NARROW FLOOD
30°

D'	FC	DIA"
1'	1296	7.6"
2'	324	15.15"
3'	144	22.7"
4'	81	30.25"
5'	52	37.8"
6'	36	45.35"
7'	26	52.9"
8'	20	60.45"

FLOOD
40°

D'	FC	DIA"
1'	704	9.4"
2'	176	19.2"
3'	78	29"
4'	44	38.8"
5'	28	48.6"
6'	20	58.4"
7'	14	68.2"
8'	11	95.1"

WIDE FLOOD
55°

D'	FC	DIA"
1'	704	11.8"
2'	176	23.7"
3'	78	35.6"
4'	44	47.5"
5'	28	59.4"
6'	20	71.3"
7'	14	83.2"
8'	11	95.1"

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LUCA 2.7 FOOT CANDLE DISTRIBUTION (CONTINUED)

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

20W at 3000K

SPOT 25°

D'	FC	DIA"
1'	3168	5.4"
2'	792	10.8"
3'	352	16.2"
4'	198	21.6"
5'	127	27"
6'	88	32.4"
7'	65	37.8"
8'	50	43.2"

NARROW FLOOD 35°

D'	FC	DIA"
1'	2656	6.8"
2'	664	13.2"
3'	295	19.6"
4'	166	26"
5'	106	32.4"
6'	74	38.8"
7'	54	45.2"
8'	42	51.6"

FLOOD 45°

D'	FC	DIA"
1'	1104	10.2"
2'	276	19.8"
3'	123	29.4"
4'	69	39"
5'	44	48.6"
6'	31	58.2"
7'	23	67.8"
8'	17	77.4"

WIDE FLOOD 55°

D'	FC	DIA"
1'	928	11.8"
2'	232	23.7"
3'	103	35.6"
4'	58	47.5"
5'	37	59.4"
6'	26	71.3"
7'	19	83.2"
8'	15	95.1"

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LUCA 2.7 FOOT CANDLE DISTRIBUTION (CONTINUED)

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

24W at 3000K

SPOT 25°

D'	FC	DIA"
1'	3803	5.4"
2'	951	10.8"
3'	423	16.2"
4'	238	21.6"
5'	152	27"
6'	106	32.4"
7'	78	37.8"
8'	59	43.2"

DIA.

NARROW FLOOD 35°

D'	FC	DIA"
1'	3188	6.8"
2'	797	13.2"
3'	354	19.6"
4'	199	26"
5'	128	32.4"
6'	89	38.8"
7'	65	45.2"
8'	50	51.6"

DIA.

FLOOD 45°

D'	FC	DIA"
1'	1325	10.2"
2'	331	19.8"
3'	147	29.4"
4'	83	39"
5'	53	48.6"
6'	37	58.2"
7'	27	67.8"
8'	21	77.4"

DIA.

WIDE FLOOD 55°

D'	FC	DIA"
1'	1114	11.8"
2'	279	23.7"
3'	124	35.6"
4'	70	47.5"
5'	45	59.4"
6'	31	71.3"
7'	23	83.2"
8'	17	95.1"

DIA.

PROJECT		FIXTURE TYPE		DATE	

PureEdge Lighting reserves the right to modify this specification without prior notice

LUCA 2.7 FOOT CANDLE DISTRIBUTION (CONTINUED)

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

26W at 3000K

SPOT
25°

D'	FC	DIA"
1'	4576	5.4"
2'	1144	10.8"
3'	508	16.2"
4'	286	21.6"
5'	183	27"
6'	127	32.4"
7'	93	37.8"
8'	72	43.2"

NARROW FLOOD
35°

D'	FC	DIA"
1'	3824	6.8"
2'	956	13.2"
3'	425	19.6"
4'	239	26"
5'	153	32.4"
6'	106	38.8"
7'	78	45.2"
8'	60	51.6"

FLOOD
45°

D'	FC	DIA"
1'	1600	10.2"
2'	400	19.8"
3'	178	29.4"
4'	100	39"
5'	64	48.6"
6'	44	58.2"
7'	33	67.8"
8'	25	77.4"

WIDE FLOOD
55°

D'	FC	DIA"
1'	1328	11.8"
2'	332	23.7"
3'	148	35.6"
4'	83	47.5"
5'	53	59.4"
6'	37	71.3"
7'	27	83.2"
8'	21	95.1"

PROJECT		FIXTURE TYPE		DATE	

TRIAC / FORWARD PHASE / LEADING EDGE DIMMING (TRI)
Input 120VAC 50/60Hz
Range 3% - 100%

ELV / REVERSE PHASE / TRAILING EDGE DIMMING (TRI)
Input 120VAC 50/60Hz
Range 3% - 100%

0-10V DIMMING (010)
Input 120VAC-277VAC 50/60Hz
Range 0.1% - 100% Dim to Off

NOTE
Cap off unused wires individually.
DO NOT cap together.

DALI DIMMING (DAL)
Input 120VAC-277VAC 50/60Hz
Range 0.1% - 100% Dim to Off

NOTE
Cap off unused wires individually.
DO NOT cap together.

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TM-30-15 DATA

2400K | Rf: 91.2 | Rg: 96.8

Color Vector Graphic

Test Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	92.0	-2.4%	1.5%
2	94.7	-2.1%	0.0%
3	95.4	-1.9%	-0.1%
4	88.7	-6.7%	-3.1%
5	92.8	-5.6%	1.0%
6	92.7	-3.4%	3.4%
7	89.9	-4.3%	4.1%
8	92.4	-1.4%	4.4%
9	89.0	-0.6%	5.8%
10	88.9	0.4%	6.2%
11	89.7	4.0%	5.4%
12	92.6	3.0%	-0.7%
13	90.9	1.1%	-7.0%
14	89.9	0.5%	-5.8%
15	92.1	-3.2%	0.1%
16	88.9	-1.7%	-6.3%

2700K | Rf: 87.7 | Rg: 96.1

Color Vector Graphic

Test Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	88.0	-4.3%	2.6%
2	91.6	-2.4%	2.0%
3	93.7	-1.4%	1.9%
4	88.9	-5.6%	-3.1%
5	92.3	-5.5%	-0.5%
6	92.9	-3.5%	0.1%
7	84.5	-7.5%	4.6%
8	90.8	-3.0%	4.4%
9	84.5	-1.3%	8.3%
10	83.9	2.0%	9.8%
11	87.2	5.3%	7.1%
12	89.2	5.4%	-2.6%
13	88.7	0.3%	-7.8%
14	86.8	1.7%	-9.3%
15	87.6	-5.4%	-1.3%
16	83.6	-3.3%	-9.5%

3000K | Rf: 88.1 | Rg: 99.7

Color Vector Graphic

Test Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	92.5	-3.1%	0.3%
2	93.3	-2.3%	1.9%
3	90.9	-0.8%	3.9%
4	94.3	-1.1%	1.4%
5	92.5	-2.6%	1.5%
6	96.4	1.2%	-0.3%
7	92.6	-2.5%	-0.0%
8	96.9	-1.4%	0.2%
9	92.3	-1.8%	4.3%
10	86.6	-0.7%	7.0%
11	86.5	2.4%	8.2%
12	89.8	5.9%	1.7%
13	93.9	2.6%	-2.7%
14	89.4	5.1%	-5.8%
15	90.1	-0.1%	-4.7%
16	86.5	0.3%	-9.7%

3500K | Rf: 86.1 | Rg: 95.5

Color Vector Graphic

Test Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	90.8	-3.8%	0.3%
2	92.3	-2.8%	2.1%
3	89.7	-1.0%	4.3%
4	92.6	-1.4%	1.7%
5	91.8	-3.1%	1.3%
6	96.2	0.8%	-0.4%
7	92.9	-3.2%	0.2%
8	94.3	-2.5%	1.5%
9	90.4	-2.5%	5.2%
10	84.3	-1.4%	9.5%
11	83.1	3.5%	9.8%
12	88.2	4.8%	3.4%
13	94.0	2.7%	-2.0%
14	88.7	5.9%	-5.8%
15	88.7	0.7%	-5.9%
16	86.8	-0.7%	-6.7%

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