

LUCA 3.5" WARM DIM

120V-277V, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS



Fixed Downlight (Trim)



Adjustable Downlight (Trimless)

DESCRIPTION

Introducing Luca "The Bringer of Light" Downlight Series, 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, surpassing a 90 CRI (Color Rendering Index) in both Static and Warm Dim options.

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 with the Luca 3.5 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, & Fixed, Adjustable			
FINISH	Reflector: White, Black, Haze Silver (low-glare), Custom Trims: White, Black, Custom			
ADJUSTABLE	30 Degrees Tilt, 360 Rotation			
BEAM ANGLE	15°, 25°, 35°, 45°, 55°			
WATTAGE	16W	20W	24W	26W
LUMENS @ 3000K, 40 Degrees	1342Lm	1610Lm	1802Lm	2113Lm
EFFICACY	84Lm/W	81Lm/W	75Lm/W	81LM/W
CCT	3000D			
AVERAGE CRI	90+			
INPUT VOLTAGE	120V ELV/TRIAC, 120V-277V & 0-10V & DALI			
CONSTRUCTION	Housing: Galvanized Steel Trims and Reflectors: Die-Cast Aluminum			
ACCESSORIES	Clear Glass & Soft Diffusing Film (Included) Linear Spread Glass Lens, Wide Diffuse 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 (applies to traditional bulbs and fixtures static CCT/warm dim). Communicates via 2.4GHz Wi-Fi. No Hub needed. Voice control with Goggle Assistant, Alexa, Siri, Shortcuts, and IFTTT
CUT OUT SIZE	Round: Ø4" Square: 4"
ENVIRONMENT	Suitable for damp locations
CEILING THICKNESS	0.5" - 1"
CERTIFICATIONS	ETL Listed. Meets Title 24 (JA8) requirements. 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

NOMINAL LAMP DATA

	LUCA 2.7 STATIC WHITE		
WATTS PER FOOT	16W	20W	24W
COLOR TEMPERATURE	30D	30D	30D
LUMENS	629	988	1106
LUMENS PER WATT (lm/w)	39	49	46
CRI	93	98	98

PROJECT		FIXTURE TYPE		DATE	
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LUCA 3.5" WARM DIM

120V-277V, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

REV 04.28.25

#1 SELECT - LIGHT ENGINE, TRIM AND REFLECTOR

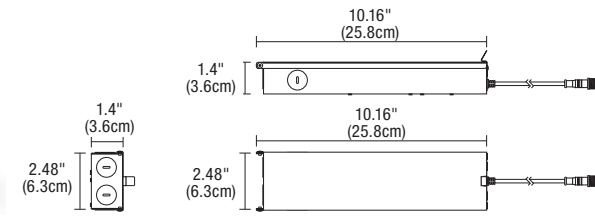
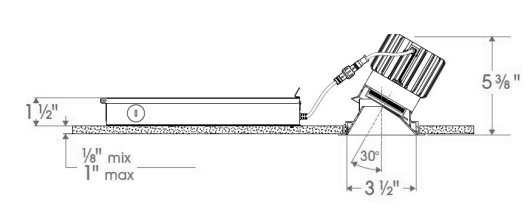
The standard ordering code serves both as a standalone option for remodeling and can also be utilized to incorporate new construction frames and housings.



System	Beam Spread	Color Temperature @ 90+ CRI	Trim Shape	Trim Function	Reflector Finish	Trim Type Finish
L35	NF	30D	R	D	W	L
L35 Luca 3.5 Light Engine	NS Narrow Spot 15° SP Spot 20° NF Narrow Flood 35° FL Flood 45° WF Wide Flood 55° *NS: 16 Watt Only	30D 3000K Warm Dim	R Round S Square	D Downlight A Adjustable P Pinhole/Adjustable	W White H Haze B Black C Custom	W White B Black L Trimless C Custom

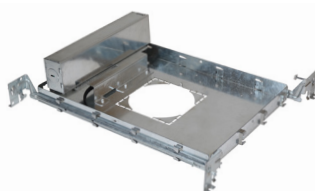
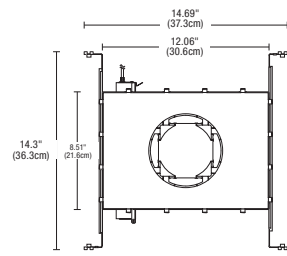
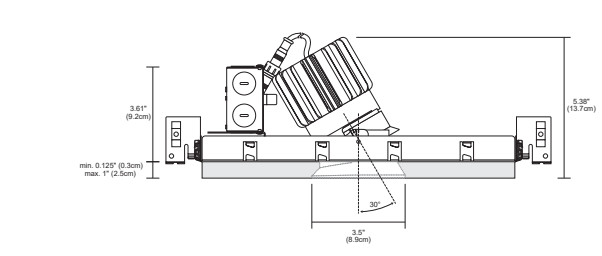
#2 SELECT - HOUSINGS

REMODEL DRIVER NON-IC

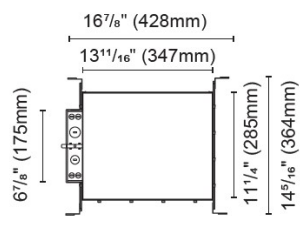
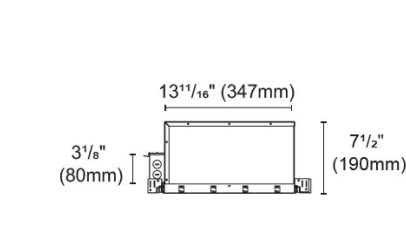
Product	Housing Type	Rating Type	Wattage/Lumens	Dimming
L35	RM	NIC	20W	UN
L35 Luca 3.5 Downlight	RM Remodel	NIC Non-Insulation Contact	16W 16 Watts/1123 Lumens 20W 20 Watts/2012 Lumens 24W 24 Watts/2262 Lumens 26W 26 Watts/2630 Lumens	UN TRIAC/MLV, ELV 120V Input 01 0-10V 120V/277V Input DA DALI 2 120V/277V input

NEW CONSTRUCTION FRAME AND DRIVER NON-IC

Product	Housing Type	Rating Type	Wattage/Lumens	Dimming
L35	NCF	NIC	20W	UN
L35 Luca 3.5 Downlight	NCF New Construction Frame	NIC Non-Insulation Contact	16W 16 Watts/1123 Lumens 20W 20 Watts/2012 Lumens 24W 24 Watts/2262 Lumens 26W 26 Watts/2630 Lumens	UN TRIAC/MLV, ELV 120V Input 01 0-10V 120V/277V Input DA DALI 2 120V/277V input

NEW CONSTRUCTION HOUSING AND DRIVER IC

Product	Housing Type	Rating Type	Wattage/Lumens	Dimming
L35	NCH	IC	20W	UN
L35 Luca 3.5 Downlight	NCH New Construction Housing	IC Insulation Contact	16W 16 Watts/1123 Lumens 20W 20 Watts/2012 Lumens	UN TRIAC/MLV, ELV 120V Input 01 0-10V 120V/277V Input DA DALI 2 120V/277V input

PROJECT		FIXTURE TYPE		DATE	
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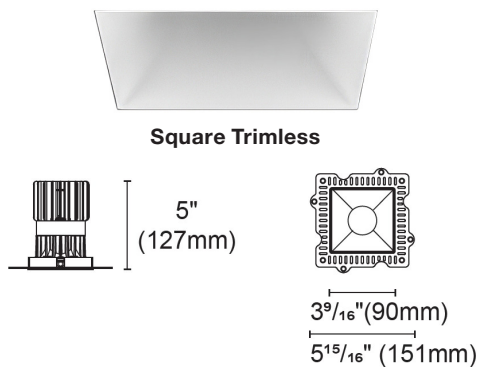
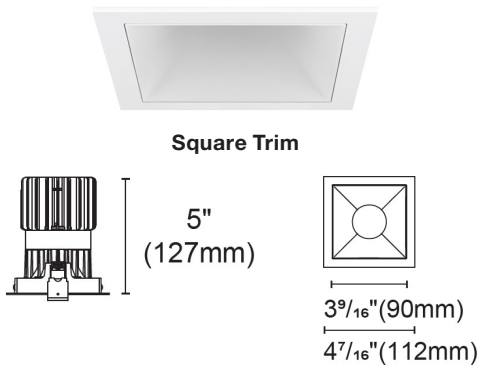
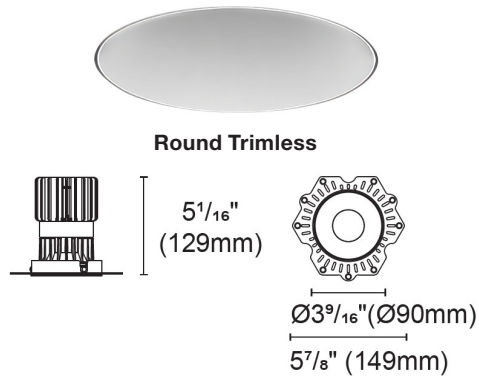
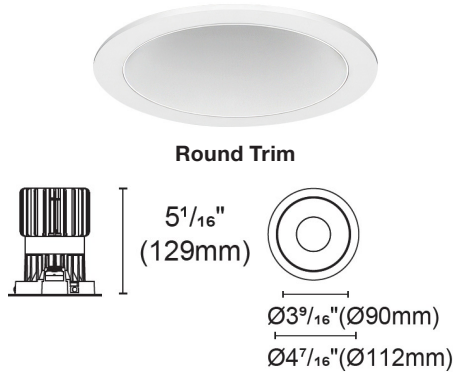
LUCA 3.5" WARM DIM

120V-277V, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

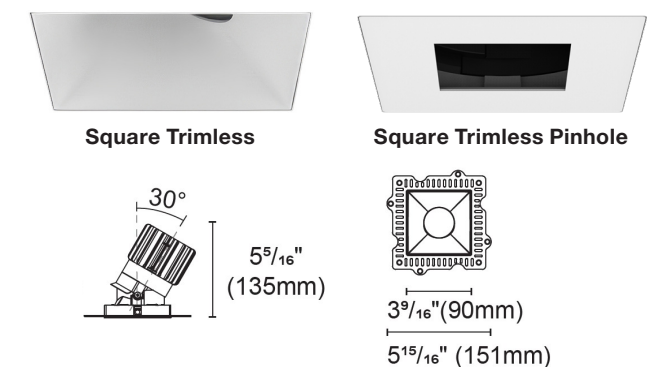
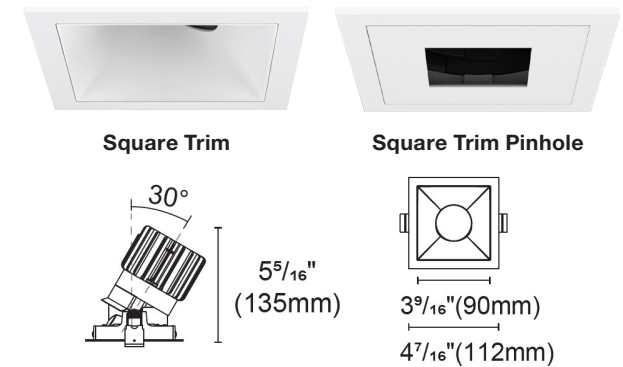
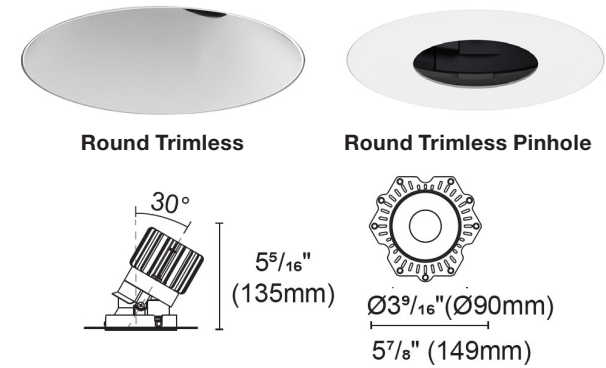
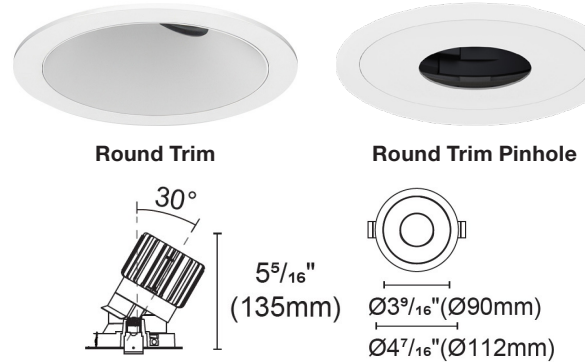
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LUCA 3.5 TRIM OPTIONS

Fixed Downlight



Adjustable Downlight



PROJECT		FIXTURE TYPE		DATE	
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LUCA 3.5" WARM DIM 120V-277V, 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

PROJECT		FIXTURE TYPE		DATE	
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LUCA 3.5" WARM DIM

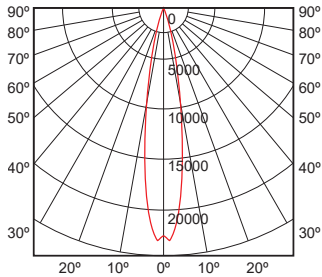
120V-277V, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

LUCA 3.5 FOOT CANDLE DISTRIBUTION

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

16W at 3000K

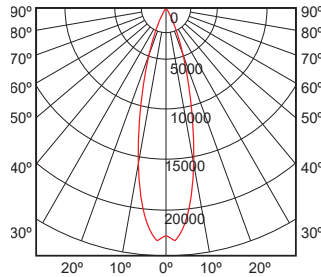
NARROW SPOT
15°



D'	FC	DIA"
1'	8708	3.4"
2'	2177	6.6"
3'	968	9.8"
4'	544	13"
5'	348	16.2"
6'	242	19.4"
7'	178	22.6"
8'	136	25.8"

DIA.

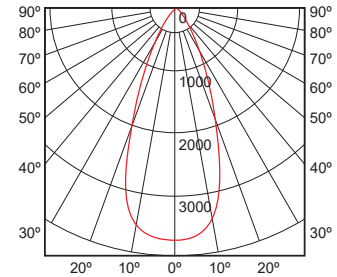
SPOT
20°



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"

DIA.

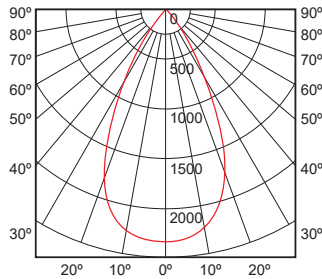
NARROW FLOOD
35°



D'	FC	DIA"
1'	2756	6.8"
2'	689	13.2"
3'	306	19.6"
4'	172	26"
5'	110	32.4"
6'	77	38.8"
7'	56	45.2"
8'	43	51.6"

DIA.

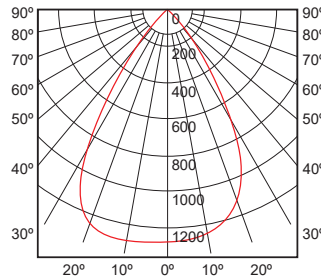
FLOOD
45°



D'	FC	DIA"
1'	1550	10.2"
2'	388	19.8"
3'	172	29.4"
4'	97	39"
5'	62	48.6"
6'	43	58.2"
7'	32	67.8"
8'	24	77.4"

DIA.

WIDE FLOOD
55°



D'	FC	DIA"
1'	848	11.8"
2'	212	23.7"
3'	94	35.6"
4'	53	47.5"
5'	34	59.4"
6'	24	71.3"
7'	17	83.2"
8'	13	95.1"

DIA.

LUCA 3.5" WARM DIM

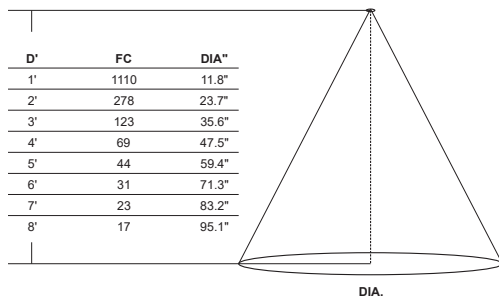
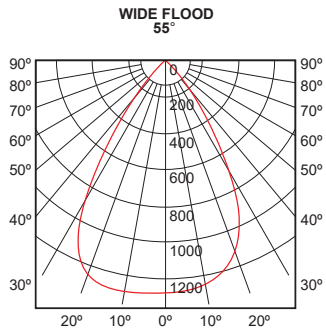
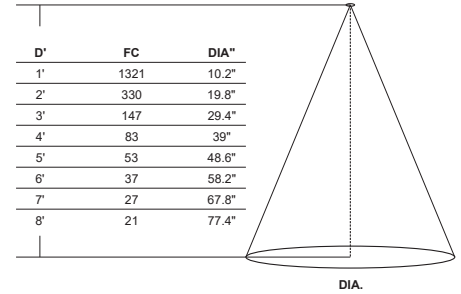
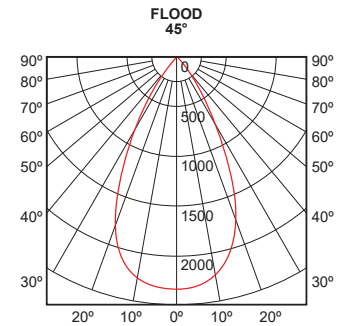
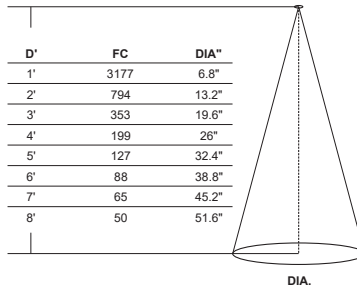
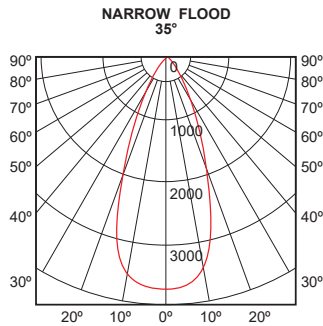
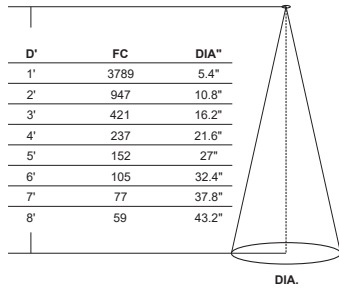
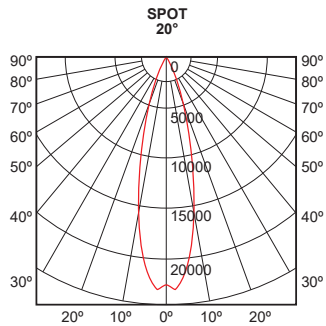
120V-277V, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

REV 04.28.25

LUCA 3.5 FOOT CANDLE DISTRIBUTION (CONTINUED)

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

20W at 3000K



PROJECT		FIXTURE TYPE		DATE	
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LUCA 3.5" WARM DIM

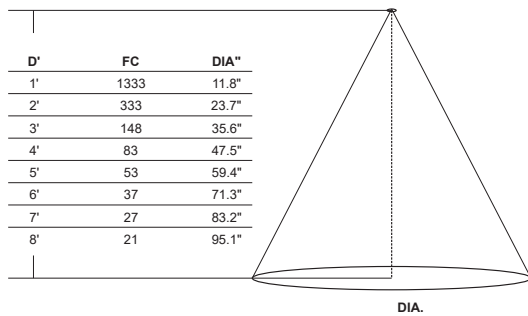
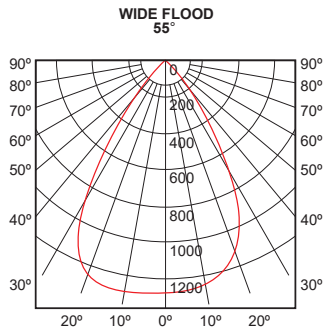
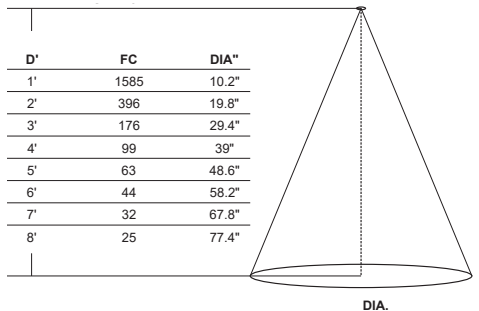
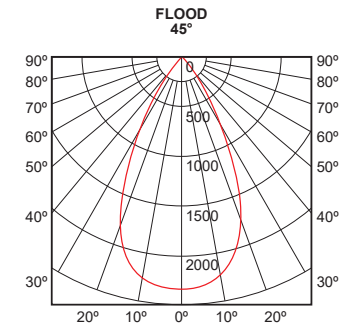
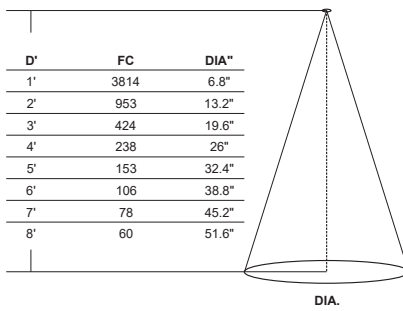
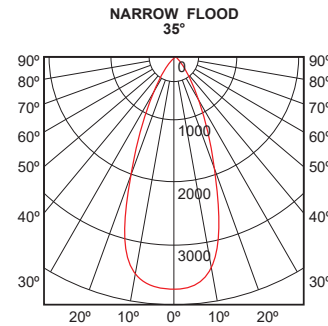
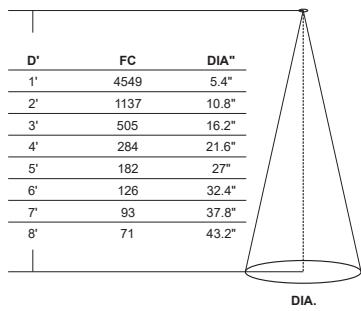
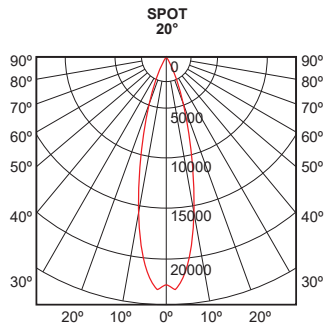
120V-277V, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

REV 04.28.25

LUCA 3.5 FOOT CANDLE DISTRIBUTION (CONTINUED)

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

24W at 3000K



PROJECT		FIXTURE TYPE		DATE	
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LUCA 3.5" WARM DIM

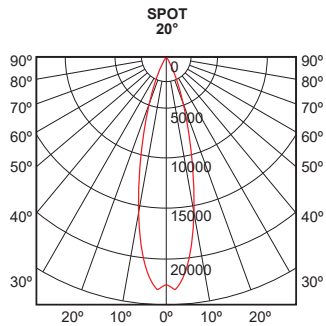
120V-277V, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

REV 04.28.25

LUCA 3.5 FOOT CANDLE DISTRIBUTION (CONTINUED)

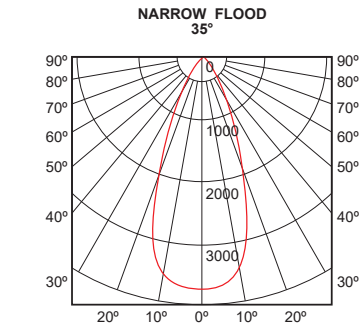
D - Distance From Luca fixture, FC - Initial foot candles at the center of beam, DIA - Diameter

26W at 3000K



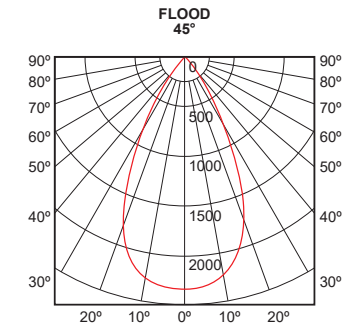
D'	FC	DIA"
1'	5474	5.4"
2'	1368	10.8"
3'	608	16.2"
4'	342	21.6"
5'	219	27"
6'	152	32.4"
7'	112	37.8"
8'	86	43.2"

DIA.



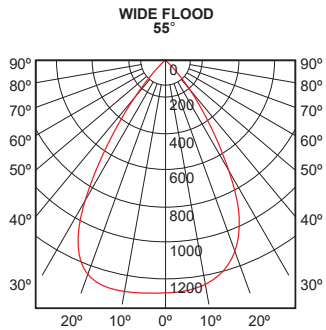
D'	FC	DIA"
1'	4574	6.8"
2'	1144	13.2"
3'	508	19.6"
4'	286	26"
5'	183	32.4"
6'	127	38.8"
7'	93	45.2"
8'	71	51.6"

DIA.



D'	FC	DIA"
1'	1914	10.2"
2'	478	19.8"
3'	213	29.4"
4'	120	39"
5'	77	48.6"
6'	53	58.2"
7'	39	67.8"
8'	30	77.4"

DIA.



D'	FC	DIA"
1'	1589	11.8"
2'	397	23.7"
3'	177	35.6"
4'	99	47.5"
5'	64	59.4"
6'	44	71.3"
7'	32	83.2"
8'	25	95.1"

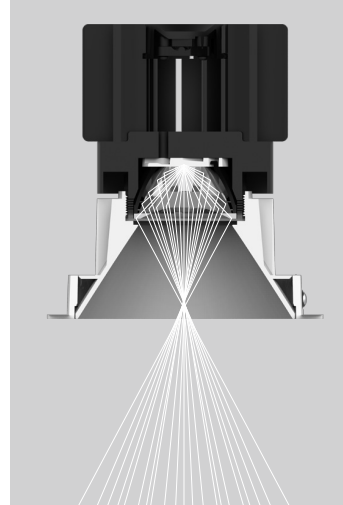
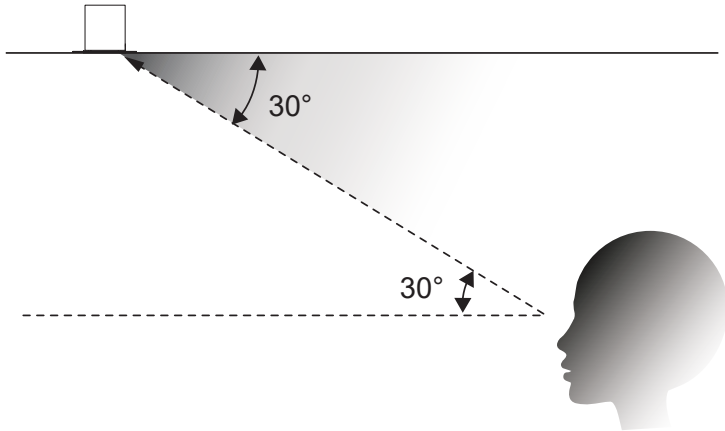
DIA.

LUCA 3.5" WARM DIM 120V-277V, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

BEAM SPREAD & LENSES

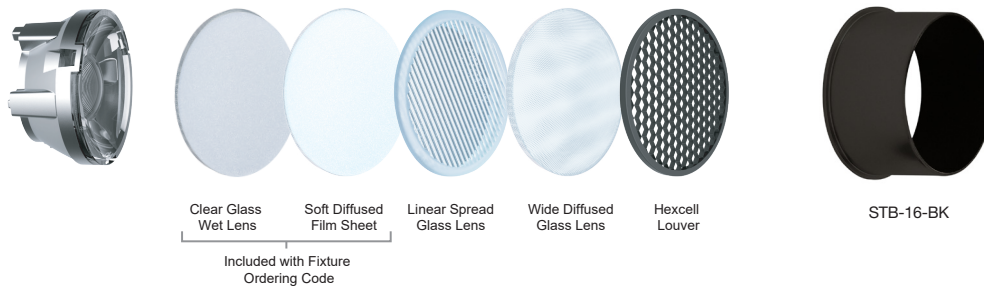
LOW GLARE BAFFLE

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° 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*	Color Temperature
LEN	L35	NF	SW
LEN Lens	L35 Luca 3.5	NF Narrow Flood 35° FL Flood 45° WF Wide Flood 55°	SW Static White

*Restrictions: NS & SP not available for replacement optics

ACCESSORIES

Product	Type
GL16	L
GL16 Glass 2" (50mm) Diameter	C Clear Glass L Linear Spread Glass Lens W Wide Diffuse Glass Lens
LF16 Glass 2" (50mm) Diameter	S Soft Diffusion Film
LO16 Glass 2" (50mm) Diameter	H Hexcell Louver
STB-16 Snoot	BK Black

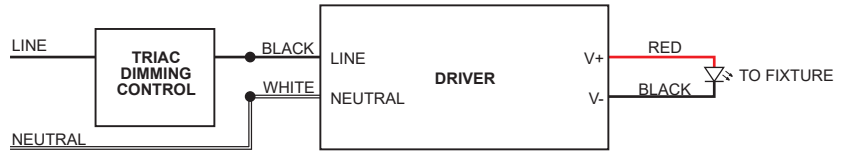
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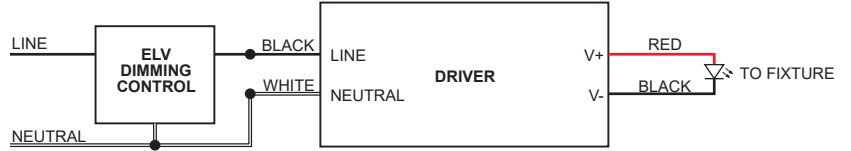
REV 04.28.25

WIRING DIAGRAMS

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

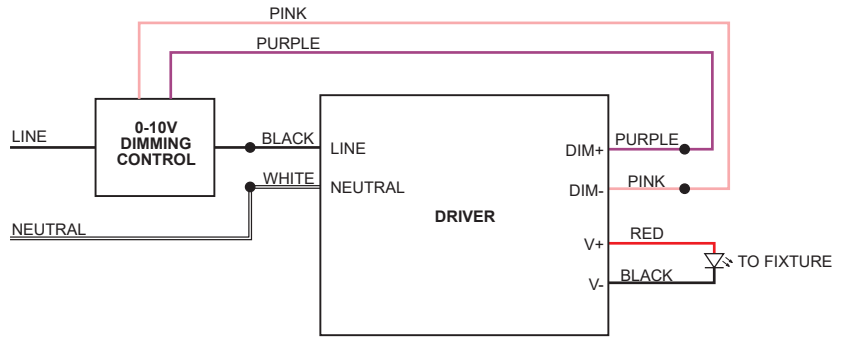


ELV / REVERSE PHASE / TRAILING EDGE DIMMING (TRI)
 Input 120VAC 50/60Hz
 Range 100% - 3%



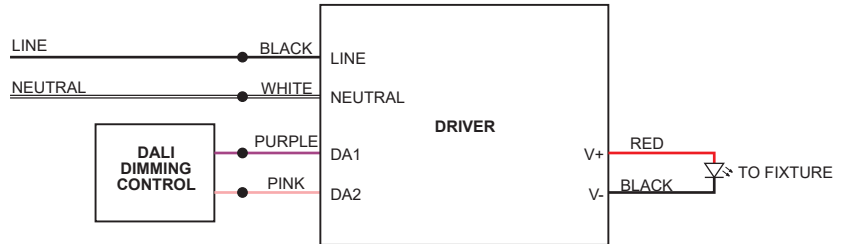
0-10V DIMMING (010)
 Input 120VAC-277VAC 50/60Hz
 Range 100% - 0.1% Dim to Off

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



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

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



PROJECT		FIXTURE TYPE		DATE	
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LUCA 3.5" STATIC WHITE & WARM DIM UNIVERSAL SMART DIMMER 120V-277V, RECESSED FIXED & ADJUSTABLE

LUCA 3.5 DIMMING & CONTROLS FOR TRIAC/ELV ONLY



DESCRIPTION

The Pure Smart™ Wi-Fi dimmer works with non-smart bulbs and fixtures compatible with forward phase or Triac dimming(not compatible with 0-10V Dimming). Smart Wi-Fi Dimmer also allows for scheduling, grouping, voice control and control from anywhere via the WiZ app on your mobile device or the WiZ Pro Dashboard on your desktop.

OPERATION*

Features an ON/OFF switch and dimming functionality activated with a long press of the On (Brightness Up) or Off (Brightness Down) button. 400W Maximum Incandescent load, 150W CFL and/or retrofit LED bulb. Minimum trim and fade in/out settings are adjusted in the WiZ App. Communicates over 2.4 GHz Wi-Fi only. If remote power is being used, this dimmer is only compatible with PureEdge Universal Power Supplies. No Hub Required.

*When dimming traditional CFL/LEDs, ensure they are marked as dimmable.

BODY

Durable polycarbonate body. Compatible with decorator style wall plate (Not Included)

EASY INSTALLATION

The Pure Smart™ Wi-Fi Dimmer installs just like a regular in-wall switch. Works with any non-smart Static CCT or Warm Dim bulb/fixture compatible with forward phase or Triac dimming. Can be used in 3-way applications(Reference Manual for Wiring Diagram). Compatible with standard gangable boxes. Requires neutral wire. No Hub Required.

WiZ APP

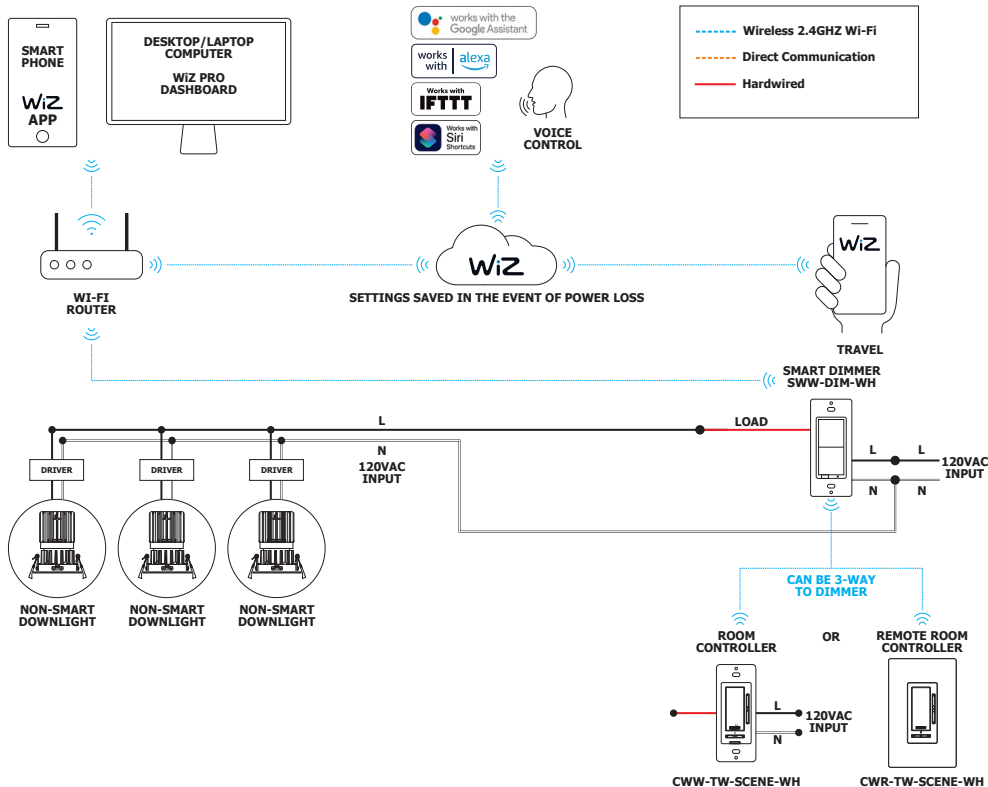
The Pure Smart™ Dimmer can be controlled via the WiZ app (works with iOS and Android) from anywhere. Voice control enabled when used in conjunction with Google Assistant, Siri, Alexa, IFTTT, and SmartThings. Grouping, zoning, and scheduling can all be programmed with the WiZ app or WiZ Pro Dashboard.

SECURITY

3rd party log-in and cloud security provide a safe and protected connection. WiZ does not store nor share any personal information.

Product	Type	Finish
SWW	DIM	WH
SWW Pure Smart Wall WiZ Pro Connected	DIM Dimmer	WH White

NETWORK TOPOLOGY



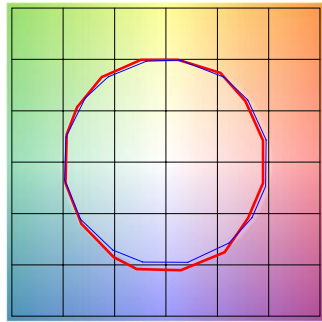
PROJECT		FIXTURE TYPE		DATE	
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LUCA 3.5" WARM DIM 120V-277V, RECESSED FIXED & ADJUSTABLE DOWNLIGHTS

TM-30-15 DATA: The data below is for bare LED Warm Dim Strip. 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.

3000D | Rf: 90.6 | Rg: 101.1

Color Vector Graphic



■ Test
 ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	91.5	-3.5%	1.3%
2	92.2	-1.8%	3.0%
3	89.3	0.5%	4.8%
4	92.7	-1.1%	0.6%
5	93.3	0.5%	1.4%
6	93.8	2.7%	-0.8%
7	91.2	-2.1%	-0.2%
8	97.0	-0.5%	-0.7%
9	92.5	-0.7%	3.8%
10	88.3	0.9%	7.1%
11	87.5	3.9%	7.6%
12	88.2	6.2%	-0.2%
13	89.9	3.4%	-6.0%
14	86.9	4.4%	-8.5%
15	91.9	-1.9%	-2.9%
16	84.7	-1.3%	-10.6%