### **Evoke<sup>®</sup> 2.9**" HP 2.9" Square Downlight



# Evoke 2.9" Square Do

#### **Features**

Evoke 2.9 LED fixtures are now available with a higher performance LED module providing 11W, 18W or 20W of lighting power. Featuring the fit, finish and attention to detail of the existing Evoke® line, bringing true performance and control in a fixed downlight, adjustable, wall washer and pinhole. Everything you desire from a small aperture recessed downlight with lumen delivery, energy efficiency, dimming control and color consistency is now a reality in Evoke.

#### **Product Overview**

Type: Wattage: Lumen Output: CBCP: Color Temp: CRI:	Recessed Square Downlight 11, 18, 20 1,100 max; 54.4 Lm/W (spot optic) 9,764 max (spot optic) 2200K, 2700K, 3000K, 3500K, 4000K 83 typ. (2700K, 3000K, 3500K, 4000K) 90+ typ. (2200K, 2700K, 3000K, 3500K, 4000K) CrispWhite (18W max) & 3K Class A available
Dimming:	TRIAC & ELV (120/277VAC) - 5% Dim Lutron Hi-lume® H Series/EcoSystem - 1% dim with soft on, fade to lack, 120/277VAC
DISCON	$T_{1}^{1}$
Produc	Soloco

**PROJECT:** 

**Downlight Trimless** 

Downlight

PRODUC	Proof Type: Tixture Type			3
aldcenni	Round/Square	New Construction	Trim	Trimless
Replac	Yes	Yes	Yes	Yes
	See separate spec s	heet for Round trim fixture		

#### **Performance Chart**

	Delivered			Color
Watts	Lumens	LPW	CBCP	Temp
11	605	55	5,370	3000K-83
18*	990	55	8,788	3000K-83
20*	1,100	54.4	9,764	3000K-83

Data is based on 3000K-83 IES files available on website Data is Spot optic. See page 5 for other beam spreads 2W thermal protector included on 18W & 20W

#### **Electrical Data**

	11W		18W*		20W*	
	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	11	0.09	18	0.15	20	0.17
277V	11	0.04	18	0.06	20	0.07

Electronic constant current LED driver

\*2W thermal protector included on 18W & 20W



#### LIT-2075 • 12/27/23 • Page 1 of 7 Amerlux reserves the right to change details that do not affect overall function and performance. Amerlux<sup>®</sup>, LLC • 178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com

2.9" Square Downlight



#### **PROJECT:**

TYPF.

#### Housing/Frame Ordering Information



The "A" refers to the sequential revision in a year and "XX" refers to the year of update. Updates coincide with improved performance while not changing the overall fixture aesthetic and are reflected in the published performance data. Please contact your Amerlux representative for explanations of changes.

2.9" Square Downlight

#### **PROJECT:**

#### Specifications

#### Application

Retail and commercial ambient and task lighting

#### **Housing Construction**

20 ga. steel painted matte black Formed aperture plate with 5/8" lip (*GB-standard*) Cast aluminum plaster frame with perforated face (*for trimless option*) Integral adjustable locking mounting bars Thermally protected

#### **Reflector Trim Construction**

Die-cast aluminum seamless reflector Painted finishes include matte white and optical matte black

with matte white flange

Wet location option adds clear glass lens and silicone flange gasket

#### Optical

Beam spreads: Spot, 15°; Narrow Flood, 20°; Medium Flood, 24°; Flood, 28°; Wide Flood, 45°; Very Wide Flood, 60°; Linear Spread, 60° x 10°

#### LED

Color Temp Options: 2200K, 2700K, 3000K, 3500K, 4000K CRI: 83 typ. (2700K, 3000K, 3500K, 4000K) 90+ typ. (2200K, 2700K, 3000K, 3500K, 4000K) CrispWhite\* LED available, 18W max

Class A\*\* 3000K (high CRI, high gamut)

**R9 Values:** 11 (83 CRI), 55 (92 CRI)

Binning: 3 MacAdam (SDCM)

Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

\*OrispWhite: CrispWhite Technology delivers the warmth of colors expected from a high 90 CRI solution but also creates the natural crisp white color that is pleasing to the eye. It creates the most impactful lighting ever available, by revealing the richest whites and vibrant colors that pop.

\*\*Class A LED: Class A LED's have a CRI > 80 and a GAI > 80. CRI defines color "Naturalness" and GAI defines color "Saturation." Both being high delivers rich colors and pure whites.

#### Electrical

Wattage: 11, 18, 20

Electronic constant current LED driver, 129/277VAC input (voltage specific TP on 18W & 20W)

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This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Amerlux® recommends using additional surge protection with this unit (supplied by others), surge and over voltage damage is not covered under warranty.

#### Drivers

LE/TE - Leading Edge, TRIAC, forward phase/Trailing Edge, ELV, reverse phase (standard) O-10V, Lutron and DALI systems also available See pages 6-7 for more dimming information

#### Finish

Wet paint

#### Mounting

26" Hanger bars included Optional **HB49** - hanger bars from min 29" to max 49" available <u>For Trimmed fixture:</u> For use in T-grid or sheetrock ceilings, 5/8" - 1" standard

For Trimless fixture: For use in sheetrock ceilings, ceiling thickness 5/8"

Consult factory for other ceiling thicknesses or for use in millwork ceilings

#### Certifications

CSA damp as tested to UL 1598 standards Damp location Wet location (optional) IC/AT (insulated ceiling) rated, 11W only, optional

#### Warranty

5 year limited warranty

2.9" Square Downlight

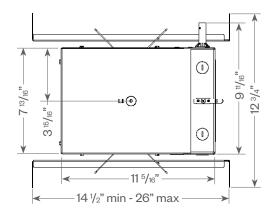
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**TYPE:** 

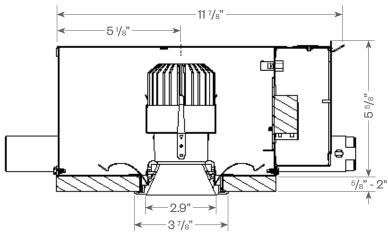
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Evoke 2.9" Square Do

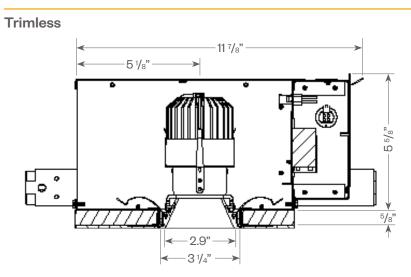
**Evoke HP Square Downlight:** 



#### Trimmed

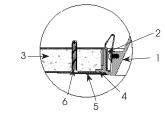


Ceiling cut out: 3 7/16"



Ceiling cut out: 4 1/16"

**Plaster Frame Installation Detail** (for trimless fixture only)



1. Reflector Trim

- 2. Aperture plate
- 3. Ceiling 5⁄8"
- 4. Cast Aluminum Plaster Frame
- 5. Plaster Skim Coat (by others)
- 6.6-32 Type F Thread Cutting Screw

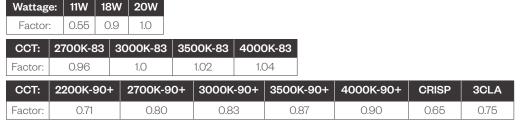
2.9" Square Downlight

#### **PROJECT:**

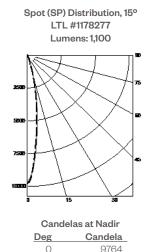
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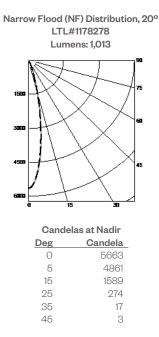
FIXTURE DATA: (Complete photometric data (.ies format) available upon request)

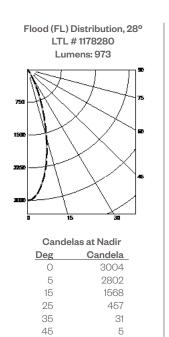


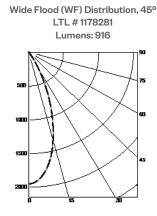


#### 20W LED, 3000K









Candelas at Nadir

Deg	Candela
0	1953
5	1877
15	1341
25	592
35	75
45	8

#### **Application Data:**

5

15

25

35

45

	$\triangle$		Aiming Horizor Footcan	ntal
	D	FC	L	W
	5.0'	237	1.9	1.9
Spot	7.5'	130	2.6	2.6
S	10.0'	81	3.3	3.2
	12.5'	54	3.9	3.8
q	D	FC	L	W
00	5.0'	168	2.3	2.3
	7.5'	87	3.1	3.1
rro	10.0'	52	3.9	3.9
Narrow Flood	12.5'	34	4.9	4.8
	D	FC	L	W
-	5.0'	102	2.9	2.9
Flood	7.5'	49	4.0	4.1
Ē	10.0'	29	5.3	5.5
	12.5'	19	6.6	6.8
_	D	FC	L	W
Wide Flood	5.0'	70	3.4	3.4
Ĕ	7.5'	33	50	4.9
ide	10.0'	19	6.6	6.6
×	12.5'	12	8.1	8.2

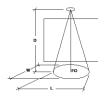
7059

1462

189

9

2



#### Notes and Definitions:

Beam spread is to 50% center beam candlepower (CBCP). D=Distance to floor or wall.

FC=Footcandles on floor or wall at center beam aiming location.

 $\label{eq:L} \begin{array}{l} L = \mbox{Effective Visual Beam length in feet (50% of maximum footcandle level).} \\ W = \mbox{Effective Visual Beam width in feet (50% of maximum footcandle level).} \end{array}$ 

 $\ensuremath{\text{CB}}\xspace$  =Distance across or down to center beam location.

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2.9" Square Downlight

#### **PROJECT:**

#### TYPE:

#### DIMMING COMPATIBILITY:

Amerlux<sup>®</sup> Evoke fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc) may affect dimming performance.

#### --- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

#### TRIAC (Forward Phase) DIMMING (Standard)

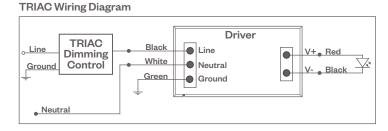
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

#### Notes:

- 120VAC or 277VAC\*
- Dims down to 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

#### Compatible Dimmers<sup>+</sup>:

Wall Box (TRIAC 120VAC)	Central System
Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Vareo"	
Lutron "Skylark"	



#### ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

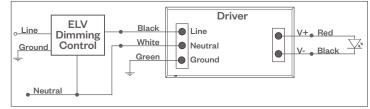
Utilizes specialized "ELV" dimmers.

#### Notes:

- 120VAC or 277VAC\*
- Dims down to 5% light output (most cases)
- Consult Dimming manufacturer for installation
- instructions DO NOT SHARE NEUTRALS!

  Must meet dimmer Minimum Load Requirements

#### **ELV Wiring Diagram**



#### Compatible Dimmers\*:

oompanoie Diminero		
Wall Box (ELV 120VAC	Wall Box (ELV 277VAC)	Central System
Lutron "Diva"	Leviton Revoir II AWSMT-E	Lutron "GP" Panel with PHPM-PA 120/277VAC
Lutron "Nova-T"		Lutron Grafik Eye QS with PHPM-PA 120/277VAC
Lutron "Maestro"		
Lutron "Vareo"		
Lutron "Skylark"		
Leviton "Surslide"		
Leviton "Vizio"		

#### Notes:

\* The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.

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<sup>\*</sup> Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer manufacturer installation instructions for 277VAC wiring diagrams.

2.9" Square Downlight

#### **PROJECT:**

#### DIMMING COMPATIBILITY

Ameriux® Evoke fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Ameriux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc) may affect dimming performance.

#### --- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

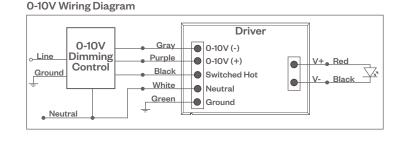
**PF** 

#### 0-10V DIMMING

Integrates into a variety of building management and daylighting controls

#### Notes:

- 120VAC or 277VAC\*
- Dims down to 1% light output
- · Requires interface to turn off power to driver
- · Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!



#### Compatible Dimmers<sup>+</sup>:

#### Wall Box

Wall Box		Central System
Lutron "Diva" - DVTV with PP-120H Interface	Leviton Renoir II 0-10V	Lutron Grafik Eye with GRX-TVI Interface

#### LUTRON H-SERIES / ECOSYSTEM DIMMING

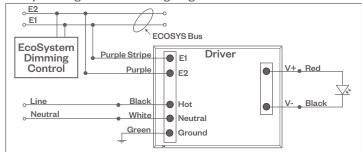
Integrates into Lutron EcoSystem building management

#### Notes:

- 120VAC or 277VAC\*
- Dims down to 1% light output
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!

#### HILUME-H-ECO, HILUME-5-ECO

EcoSystem Digital Control Wiring Diagram



#### Compatible Dimmers<sup>+</sup>:

Central System
Lutron EcoSystem compatible controls

#### **DALI DIMMING**

Digital control protocol allows individual fixture control

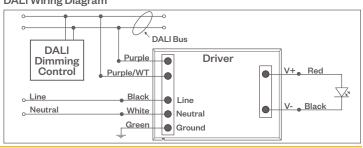
#### Notes:

- 120VAC 277VAC\*
- · Dims down to 1% light output in most cases

#### Compatible Dimmers\*:

Wall Box (3-Wire Fluorescent)	<b>Central System</b>
Leviton CD250 Controller	Dynalite
	Fifth Light





#### Notes:

\* Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer manufacturer installation instructions for 277VAC wiring diagrams.

\* The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.

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