Evoke[®] 2.9" HP 2.9" Round Adjustables



Adjustable/Adjustable Shower

PROJECT:



Adjustable Trimless



Pinhole Adjustable



vear limited warranty



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.

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Product Overview

Type: Wattage: Lumen Output: CBCP: Color Temp: CRI:	Recessed Round Adjustable 11, 18, 20 1,086 max; 55.8 Lm/W (spot optic, 25° tilt) 6,144 (spot optic, 25° tilt) 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 black, 120/277VAC
	0-10V (1.11/2:17V) (C) - 1% Dim
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	TING Dim 3"
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Round/Square	New Construction	Trim	Trimless
Yes	Yes	Yes	Yes
-			

See separate spec sheets for Square trim fixtures Shower trim not available in trimless

Performance Chart

	Delivered			Color
Watts	Lumens	LPW	CBCP	Temp
11	597	54.2	3,379	3000K-83
18*	977	54.3	5,530	3000K-83
20*	1,086	55.8	6,144	3000K-83

Data is based on 3000K-83 IES files available on website

Data is Spot optic, 25° tilt. See pages 6-7 for other beam spreads *2W thermal protector included on 18W & 20W

Electrical Data

	11W		18V	V*	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 Evoke 2.9" Round Ad

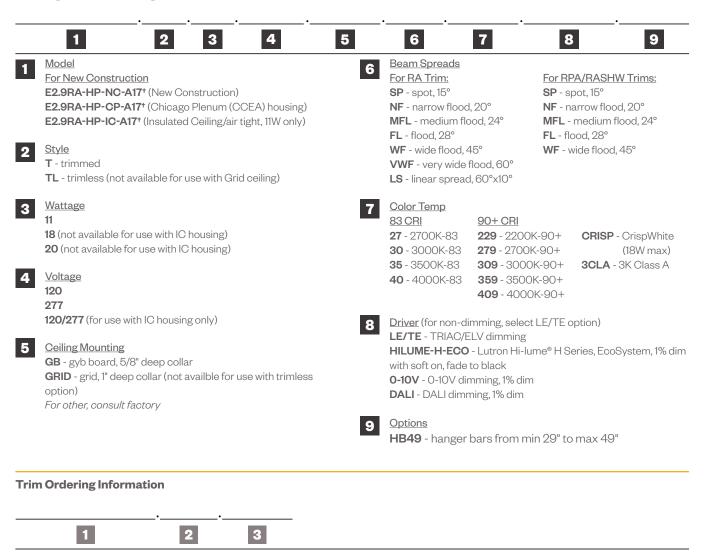
2.9" Round Adjustables

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PROJECT:

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Housing/Frame Ordering Information



1 Model

E2.9RA-HP-A17⁺ (Adjustable)
E2.9RPA-HP-A17⁺ (Pinhole Adjustable)
E2.9RASHW-HP-A17⁺ (Adjustable Shower, not available for use with trimless option)

<u>Style</u> T - trimmed

2

TL - trimless (not available for use with Grid ceiling and/or not available for use with Shower trim) SDW - semi-diffuse, white flange SDC - semi-diffuse, clear flange* CLW - specular clear, white flange CLC - specular clear, clear flange* MWW - matte white, white flange *Note: On clear flange, trim finish matches cone finish

For RA Trim (Trimless): SD - semi-diffuse CL - specular clear

Finish

3

For RPA Trim (Trimmed & Trimless): Faceplate with black baffle MW - matte white

For RA/RASHW Trims (Trimmed):

⁺ 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 Amerilux representative for explanations of changes.

2.9" Round Adjustables

PROJECT:

Specifications

Application

Retail and commercial accent 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

<u>For Adjustable & Adjustable Shower Trim:</u> Spun aluminum reflector Variety of anodized aperture finishes in bothe white and clear flange

Adjustable Shower Trim also contains a clear glass lens and silicone flange gasket

For Pinhole Trim:

Die-cast aluminum faceplate painted matte white Die-cast knife-edge baffle painted matte black Spring steel mounting clips

Optical

Cam adjustment mechanism provides lockable 0-40° tilt (0-35° for Pinhole trim); 360° rotation

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

TYPF

Wattage: 11, 18, 20

Electronic constant current LED driver, 120/277VAC 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

0-10V, Lutron and DALI systems also available See pages 8-9 for more dimming information

Finish (Trim)

Wet paint

Mounting

26" Hanger bars included Optional **HB49** - hanger bars from min 29" to max 49" available <u>For Trimmed fixture:</u> GRID: 1" deep aperture collar GB (gyp board): 5/8" deep aperture collar Extra thick ceiling ring available for ceilings over 1" thick, consult factory **Note:** Tilt adjustment reduced to 30° (15° for Pinhole trim) in ceilings 1-1/4" thick

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 IC/AT (insulated ceiling/air tight) rated, 11W only, optional

Warranty

5 year limited warranty

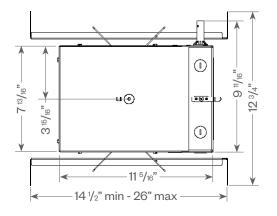
2.9" Round Adjustables

PROJECT:

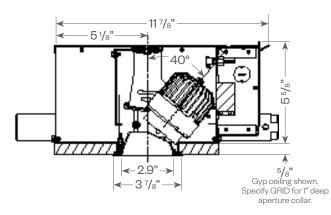
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TYPE:

Evoke HP Round Adjustables:

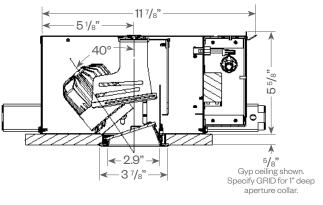


Adjustable



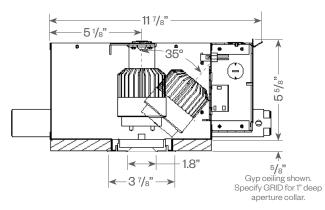
Ceiling cut out: 3 7/16" dia.

Adjustable Shower



Ceiling cut out: 3 7/16" dia.

Pinhole Adjustable



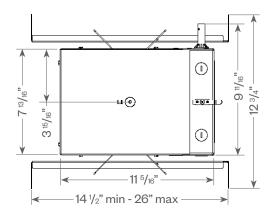
Ceiling cut out: 3⁷/₁₆" dia.

Evoke[®] 2.9" HP 2.9" Round Adjustables

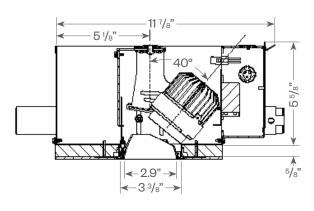
PROJECT:

TYPE:

Evoke HP Round Adjustables Trimless:

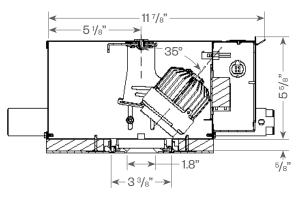


Adjustable Trimless



Ceiling cut out: 4 1/16" dia.



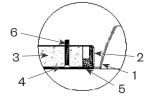


Ceiling cut out: 4 1/16" dia.

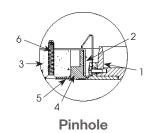
Plaster Frame Installation Detail (for trimless fixture only)



- 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



Adjustable



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2.9" Round Adjustables

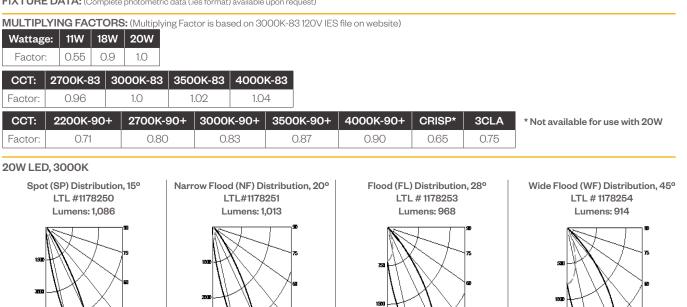
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PROJECT:

TYPF

Evoke HP Round Adjustable:

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



ZZ50

Deg

Candelas at Nadir

Candela

Candelas at Nadir

Candela

Deg

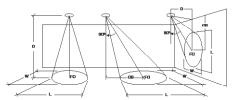
Application Data:

Deg

Candelas at Nadir

Candela

	25°		Ho	ming An orizonta tcandle	1		25°			ing Ang tical andles	le
	D	FC	L	W	CB		D	FC	L	W	CB
	5.0'	228	1.9	2.2	2.0	-	3.0′	52	4.4	3.0	5.5
Spot	7.5'	98	2.8	3.3	3.0		4.0′	30	5.9	3.8	7.5
S	10.0'	54	3.8	4.5	4.0		5.0′	20	7.4	4.7	9.5
	12.5'	35	4.8	5.6	5.0		6.0′	14	8.8	5.5	10.5
p	D	FC	L	W	CB		D	FC	L	W	CB
Narrow Flood	5.0'	126	2.3	3.0	2.0		3.0′	37	4.6	3.4	5.5
Š	7.5'	56	3.4	4.3	3.0		4.0′	21	6.1	4.6	6.5
rro	10.0'	32	4.5	5.7	4.0		5.0′	14	7.6	5.6	8.5
Na	12.5'	20	5.6	7.2	5.0		6.0′	10	9.2	6.7	10.5
	D	FC	L	W	СВ	_	D	FC	L	W	СВ
0	5.0'	87	3.0	3.1	2.0		3.0′	33	3.3	4.4	4.5
Flood	7.5'	39	4.5	4.7	3.0		4.0′	20	5.6	4.3	5.5
Ē	10.0'	22	5.9	6.2	4.0		5.0′	13	7.1	5.3	7.5
	12.5'	14	7.4	7.7	4.0		6.0′	9	8.5	6.3	8.5
σ	D	FC	L	W	СВ		D	FC	L	W	СВ
Wide Flood	5.0'	62	3.6	3.6	2.0		3.0'	26	4.3	3.5	4.5
E O	7.5'	29	5.2	5.2	2.0		4.0'	16	5.5	4.5	5.5
Vide	10.0'	16	6.8	7.0	3.0		5.0'	11	6.8	5.5	6.5
5	12.5'	11	8.6	8.9	4.0		6.0'	8	8.2	6.6	7.5



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.

L=Effective Visual Beam length in feet (50% of maximum footcandle level). W=Effective Visual Beam width in feet (50% of maximum footcandle level). CB=Distance across or down to center beam location.

Deg

Candelas at Nadir

Candela

2.9" Round Adjustables

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PROJECT:

TYPE:

Evoke HP Round Pinhole Adjustable:

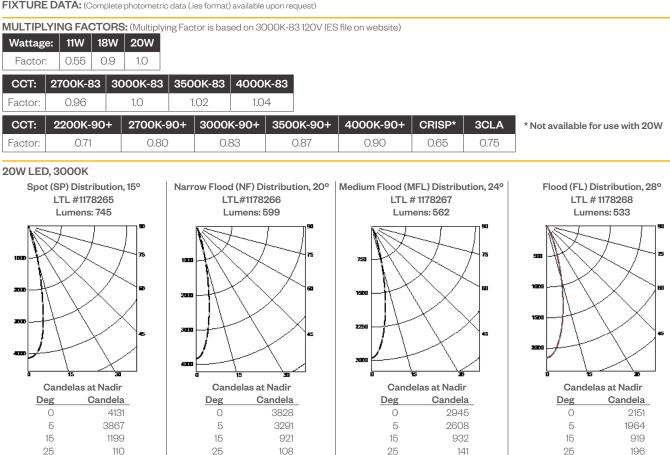
FIXTURE DATA: (Complete photometric data (.ies format) available upon request)

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Application Data:

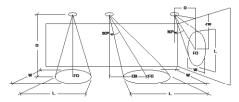
35

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	\triangle		Aiming Horizor Footcan	ntal
	D	FC	L	W
	5.0'	135	2.3	2.3
Spot	7.5'	68	3.2	3.2
S	10.0'	39	4.1	4.1
	12.5'	26	5.1	5.1
	D	FC	L	W
≥ -	5.0'	113	2.1	2.1
Varrow Flood	7.5'	59	3.0	3.0
ЫN	10.0'	35	3.7	3.7
	12.5'	23	4.7	4.7
	D	FC	L	W
۳ ع	5.0'	91	2.4	2.4
lediun Flood	7.5'	46	3.2	3.2
Medium Flood	10.0'	27	4.1	4.1
-	12.5'	18	5.1	5.1
	D	FC	L	W
-	5.0'	70	2.6	2.6
Flood	7.5'	35	3.6	3.6
Ē	10.0'	20	4.8	4.8
	12.5'	13	5.9	5.9

7

1



35

45

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.

L=Effective Visual Beam length in feet (50% of maximum footcandle level). W=Effective Visual Beam width in feet (50% of maximum footcandle level).

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2

CB=Distance across or down to center beam location.

2.9" Round Adjustables

PROJECT:

TYPE:

DIMMING COMPATIBILITY:

Amerlux[®] 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)

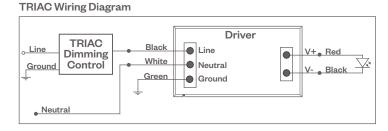
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

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⁺:

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)

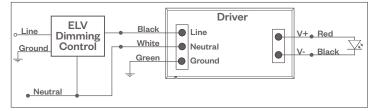
Utilizes specialized "ELV" dimmers.

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*:

Compatible Diminers .		
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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^{*} 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" Round Adjustables

PROJECT:

TYPF

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.

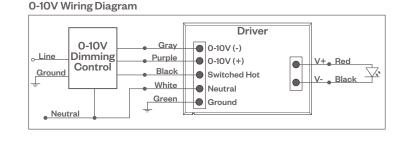
--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

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⁺:

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

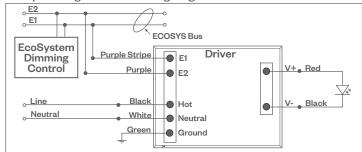
Integrates into Lutron EcoSystem building management

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⁺:

Lutron ECO System	Central System
Pow Pak Dimming Modules	Lutron EcoSystem compatible controls
Energi Savr Node	
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

DALI DIMMING

Digital control protocol allows individual fixture control

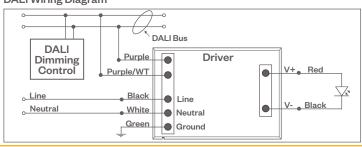
Notes:

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

Compatible Dimmers*:

Wall Box (3-Wire Fluorescent)	Central System
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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