Evoke® 2.9" HP

2.9" Round Lens Wall Wash

amerlux
A Delta Group Company

Lens Wall Wash

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:	Recessed Round Wall Wash
Wattage:	11, 18, 20
Lumen Output:	1,033 max; 52.8 Lm/W
CBCP:	1,206 max
Color Temp:	2200K, 2700K, 3000K, 3500K, 4000K
CRI:	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 (120/277VAC) - 1% Dim
	DALI Dimming - 1% Dim

PROJECT:

Lens Wall Wash Trimless

TYPE:

Fixture Type

Round/Square	New Construction	Trim	Trimless
Yes	Yes	Yes	Yes

See separate spec for Square trim fixture

Performance Chart

Watts	Delivered Lumens	LPW	CBCP	Color Temp
11	568	51.7	663	3000K-83
18*	930	51.7	1,085	3000K-83
20*	1,033	52.8	1,206	3000K-83

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

CSA
C US

5 year limited warranty
AMERLUX LED

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PROJECT: **TYPE:**

Housing/Frame Ordering Information

_____._____._____._____._____._____._____._____
1   **2**   **3**   **4**   **5**   **6**   **7**   **8**

1 **Model**
For New Construction
E2.9RLW-HP-NC-A17† (New Constuction)
E2.9RLW-HP-CP-A17† (Chicago Plenum (CCEA) housing)
E2.9RLW-HP-IC-A17† (Insulated Ceiling/air tight, 11W only)

2 **Style**
T - trimmed
TL - trimless (not available for use with Grid ceiling)

3 **Wattage**
11
18 (not available for use with IC housing)
20 (not available for use with IC housing)

4 **Voltage**
120
277
120/277 (for use with IC housing only)

5 **Ceiling Mounting**
GB - gyb board, 5/8" deep collar
GRID - grid, 1" deep collar (not availble for use with trimless option)
For other ceiling type, consult factory

6 **Color Temp**

83 CRI	90+ CRI	
27 - 2700K-83	**229** - 2200K-90+	**CRISP** - CrispWhite
30 - 3000K-83	**279** - 2700K-90+	(18W max)
35 - 3500K-83	**309** - 3000K-90+	**3CLA** - 3K Class A
40 - 4000K-83	**359** - 3500K-90+	
	409 - 4000K-90+	

7 **Driver** (for non-dimming, select LE/TE option)
LE/TE - TRIAC/ELV dimming
HILUME-H-ECO - Lutron Hi-lume® H Series, EcoSystem, 1% dim with soft on, fade to black
0-10V - 0-10V dimming, 1% dim
DALI - DALI dimming, 1% dim

8 **Options**
HB49 - hanger bars from min 29" to max 49"

Trim Ordering Information

____E2.9RLW-HP-A17____._____._____
       1   **2**   **3**

1 **Model**
E2.9RLW-HP-A17†

2 **Style**
T - trimmed
TL - trimless (not available for use with Grid ceiling)

3 **Finish (Trimmed)**
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
Finish (Trimless)
SD - semi-diffuse
CL - specular clear

† 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.

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Specifications

Application
Retail and commercial wall wash 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
Spun aluminum reflector with bias cut
Variety of anodized aperture finishes in bothe white and clear flange
Steel mounting ring with torsion springs and spring steel mounting clips

Optical
Engineered diffuse linear spread lens etched on the interior side

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

*CrispWhite: 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, 120/277VAC input (voltage specific TP on 18W & 20W)

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)
0-10V, Lutron and DALI systems also available
See pages 6-7 for more dimming information

Finish (Trim)
Wet paint

Mounting
26" Hanger bars included
Optional **HB49** - hanger bars from min 29" to max 49" available
For Trimmed fixture:
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: Not recommended for ceilings over 1" 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
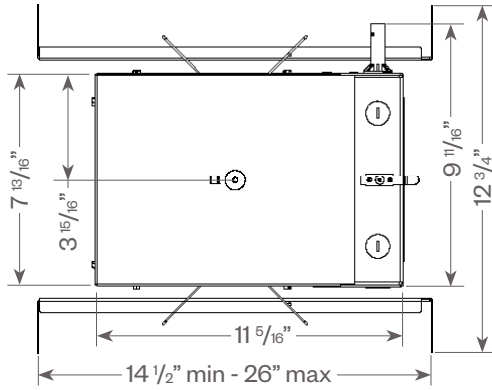
Warranty
5 year limited warranty

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Amerlux reserves the right to change details that do not affect overall function and performance.
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Evoke® 2.9" HP

2.9" Round Lens Wall Wash

PROJECT: **TYPE:**

Evoke HP Round Lens Wall Wash:

7 13/16"
3 15/16"
9 11/16"
12 3/4"
11 5/16"
14 1/2" min - 26" max

Trimmed

11 7/8"
5 1/8"
5 5/8"
2.9"
3 7/8"
5/8"

Gyp ceiling shown.
Specify GRID for 1" deep
aperture collar.

Ceiling cut out: 3 7/16" dia.

Trimless

11 7/8"
5 1/8"
5 5/8"
2.9"
3 3/8"
5/8"

Ceiling cut out: 4 1/16" dia.
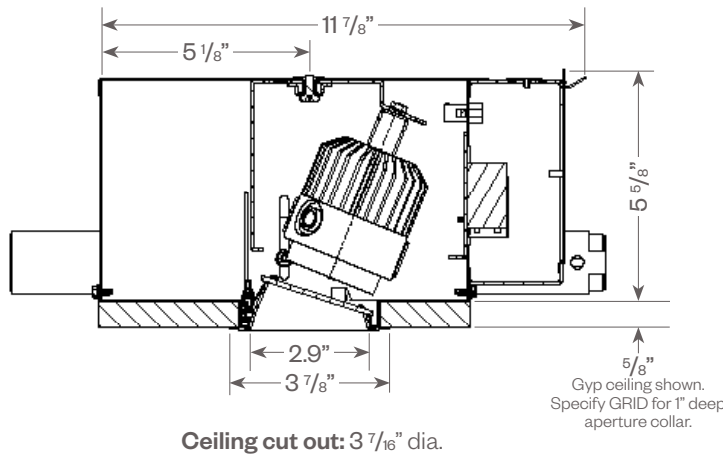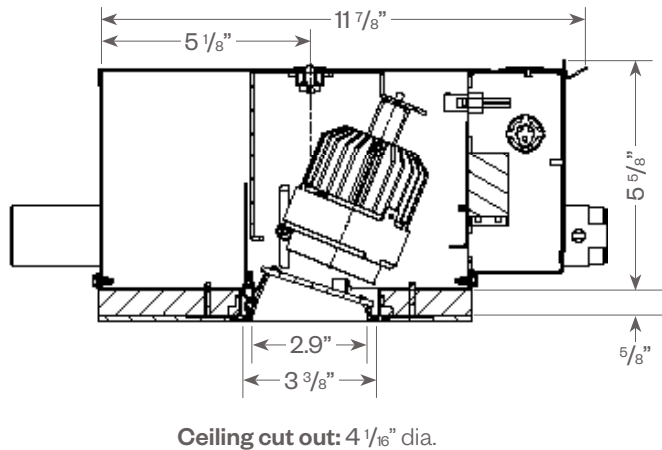
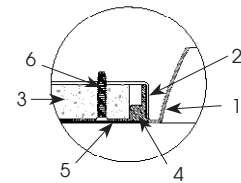## Plaster Frame Installation Detail
(for trimless fixture only)

1. Reflector Trim
2. Aperture plate
3. Ceiling ⅝"
4. Cast Aluminum Plaster Frame
5. Plaster Skim Coat (by others)
6. 6-32 Type F Thread Cutting Screw

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PROJECT: TYPE:

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

MULTIPLYING FACTORS: (Multiplying Factor is based on 3000K-83 120V IES file on website)

Wattage:	11W	18W	20W
Factor:	0.55	0.9	1.0

CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

CCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP	3CLA
Factor:	0.71	0.80	0.83	0.87	0.90	0.65	0.75

20W 3000K
Lumens: 1033

LTL# 1178264

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	718	69.5
0-60	997	96.6
0-90	1033	100.0
90-180	0	0.00

Luminaire Efficacy: 52.8 Lm/W
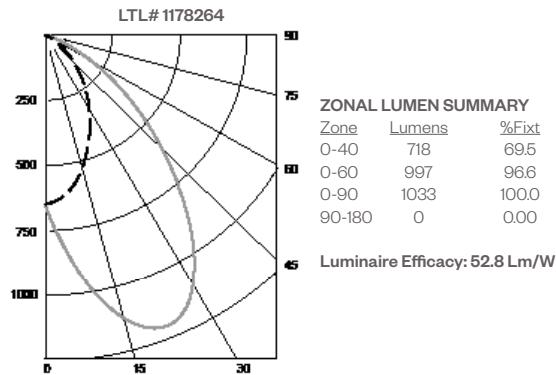
Application Data: Footcandles on Wall

Footcandles are average and rounded off.
Data for multiple units are based
on a minimum of five units.

1.5 Feet from Wall — |← 1.5' →|← 1.5' →|← 1.5' →|← 1.5' →|

Distance from ceiling							
0.5'	14	11	12	16	12	11	15
1.5'	118	121	124	134	124	121	118
2.5'	91	103	109	115	109	104	92
3.5'	53	65	69	73	70	65	54
4.5'	33	39	44	45	44	40	33
5.5'	22	26	28	29	28	26	22
6.5'	15	18	20	20	20	18	15
7.5'	11	13	14	15	14	13	12

1.5 Feet from Wall — |← 2' →|← 2' →|← 2' →|← 2' →|

Distance from ceiling									
0.5'	14	7	15	7	15	7	15	7	14
1.5'	107	79	114	80	114	80	114	79	107
2.5'	79	77	90	80	90	80	90	77	79
3.5'	46	50	55	54	57	54	56	50	50
4.5'	27	32	34	35	36	35	34	32	27
5.5'	18	21	23	24	24	24	23	21	18
6.5'	13	15	16	17	17	17	16	15	13
7.5'	10	11	12	13	13	13	12	11	10

2 Feet from Wall — |← 2' →|← 2' →|← 2' →|← 2' →|

Distance from ceiling									
0.5'	4	4	4	4	5	4	4	4	4
1.5'	55	49	61	50	61	50	61	49	55
2.5'	64	68	76	72	77	72	76	68	64
3.5'	49	54	60	59	62	59	60	54	49
4.5'	33	39	42	43	44	43	42	39	33
5.5'	23	27	30	31	31	31	30	27	23
6.5'	17	19	21	22	23	22	21	20	17
7.5'	13	15	16	17	17	17	16	15	13

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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

TRIAC Wiring Diagram
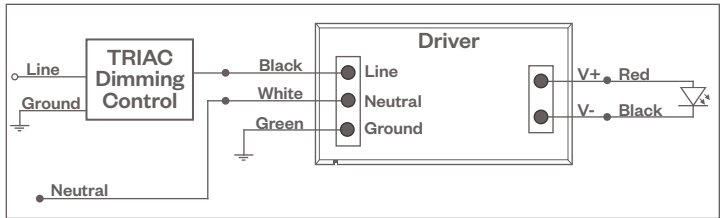
Compatible Dimmers†:

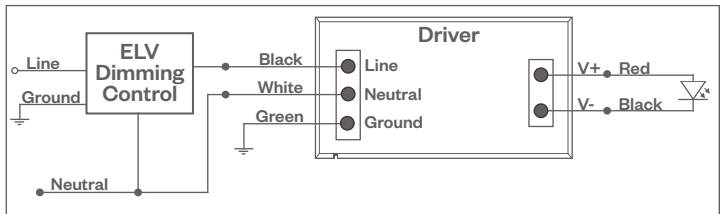| Wall Box (TRIAC 120VAC)	Central System
Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Vareo"	
Lutron "Skylark"	

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†:

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:

* 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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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.

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0-10V DIMMING
Integrates into a variety of building management and daylighting controls

0-10V Wiring Diagram

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!
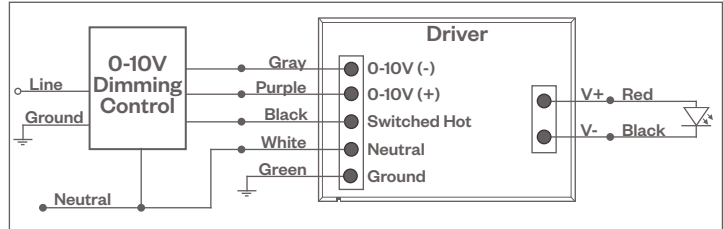
Compatible Dimmers†:

| Wall Box		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

HILUME-H-ECO, HILUME-5-ECO
EcoSystem Digital Control Wiring Diagram

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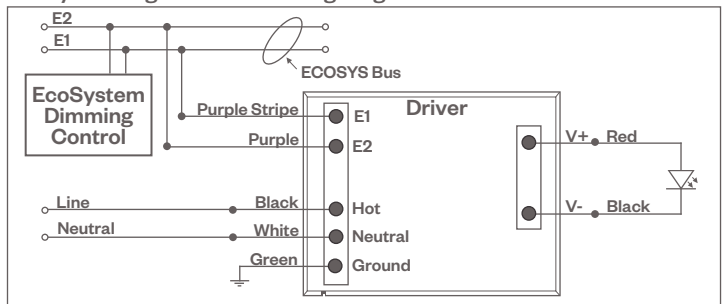
Compatible Dimmers†:

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

DALI Wiring Diagram

Notes:
- 120VAC - 277VAC*
- Dims down to 1% light output in most cases
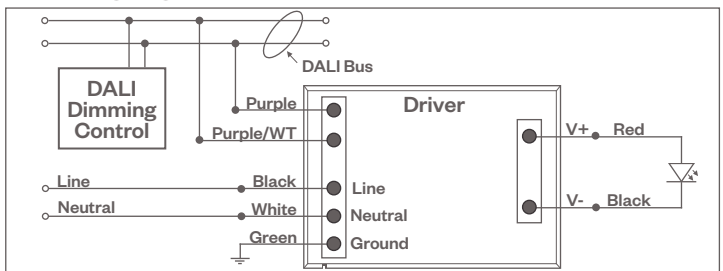
Compatible Dimmers†:

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.