

Evoke® 4.75"

Square Lensed Downlight/Wall Wash



PROJECT:

TYPE:

Features

Impressive performance, high lumen delivery, consistent color. The Evoke 4.75 Square Lensed Downlight features the fit, finish, attention to detail, and performance that Evoke is known to provide. Evoke 4.75" SLD delivers the performance, energy savings and color you expect from a spec-grade LED downlight. Complimenting Wall Wash fixture available.

Product Overview

Type: Recessed Square Downlight/Wall Wash
Wattage: 16W, 21W, 30W, 34W, 42W, 46W
Color Temp: 2700K, 3000K, 3500K, 4000K
CRI: 83 typ. or 90+ typ.
3K Class A LEDs available
Dimming: TRIAC & ELV, 5% Dim, 120/277VAC
Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black, 120/277VAC
0-10V, 1% Dim, 120/277VAC
DALI, 1% Dim, 120/277VAC



E475SLD



E475SLD-TL
(trimless)



E475SLW

Certifications

International version available, see website for spec sheet.



Fixture Summary

Performance Data

Downlight			
Watts	Delivered Lumens	LPW	Color Temp-CRI
16	1509	94.3	3000K-83
21	1981	94.3	3000K-83
30	2830	94.3	3000K-83
34	3207	99.1	3000K-83
42	4000	95.1	3000K-83
46	4290	93.1	3000K-83

Wall Wash			
Watts	Delivered Lumens	LPW	Color Temp-CRI
16	1401	87.6	3000K-83
21	1839	87.6	3000K-83
30	2495	83.2	3000K-83
34	2835	87.6	3000K-83
42	3536	84.1	3000K-83
46	3792	82.4	3000K-83

Data is based on 3000K-83 120V IES files available on website.

Data is based on E475SLD 34W with 50° Solite Lens.

See pages 6-7 for other performance data.

Electrical Data

	16W		21W		30W		34W		42W		46W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	16	0.13	21	0.18	30	0.25	34	0.28	42	0.35	46	0.38
277V	16	0.06	21	0.08	30	0.11	34	0.12	42	0.15	46	0.17

Electronic constant current LED driver.

Includes thermal protector, 2W power consumption.



Square Lensed Downlight/Wall Wash



PROJECT:

TYPE:

Ordering Information - Housing/Frame

1	2	3	4	5	6
1	Model For New Construction E4.75S-NC-A17 (New Construction) E4.75S-CP-A17 (Chicago Plenum, 16W, 21W & 30W only) E4.75S-IC-A17 (Insulated Ceiling/air tight, 16W & 21W only)	2	Style T - trimmed TL - trimless (not available for use with Grid ceiling)	3	Wattage 16 21 30 (not for use with IC housing) 34 (not for use with CP or IC housings) 42 (not for use with CP or IC housings) 46 (not for use with CP or IC housings)
4	Voltage 120 277 120/277 (for use with IC housing only)	5	Driver (for non-dimming, select LE/TE option) LE/TE TRIAC/ELV dimming, 5% dim HILUME-H-ECO* Lutron LDE1 Hi-lume® 1% dim Soft-On/Fade-to-Black O-10V 0-10V dimming; 1% dim DALI DALI dimming; 1% dim * Not available for use with 46W option.	6	Options/Accessories EM emergency battery pack with remote test switch (not available for use with CP or IC options) HB49 hanger bars from min 29" to max 49" <i>Note: 26" hanger bars are included as standard. Choose HB49 option above for larger mounting spaces only.</i>

Ordering Information - Trim

1		2		3		4		5		6	
1	Model	2	Style	3	Finish						
	E4.75SLD-A17		T - trimmed		<u>For Trimmed Fixture</u>		<u>For Trimless Fixture</u>				
	E4.75SLW-A17 (wall wash)		TL - trimless (not available for use with Grid ceiling)		MWW matte white, white flange		MW matte white				
					MBW matte black, white flange		MB matte black				
					SLVW matte silver, white flange		SLV matte silver				
					MBB matte black, white black						
4	Beam Spread		5	Color Temp			6	Options/Accessories			
	<u>For SLD trim</u>			<u>83 CRI</u>		<u>90+ CRI</u>					
	30SOL 30° solite lens	<u>For SLW trim</u>		27 2700K-83	279 2700K-90+	3CLA 3K Class A					
	50SOL 50° solite lens	WW wall wash		30 3000K-83	309 3000K-90+						
	65SOL 65° solite lens			35 3500K-83	359 3500K-90+						
	75SAT 75° satin ice lens			40 4000K-83	409 4000K-90+						
								WET wet location (not available for use with trimless option)			



Evoke® 4.75"

Square Lensed Downlight/Wall Wash



PROJECT:

TYPE:

Specifications

Application

For E4.75SLD

Commercial and hospitality ambient lighting

For E4.75SLW

Commercial and hospitality wall Wash lighting

Housing Construction

- 20 ga. galvanized steel frame
- 18 ga. galvanized steel splice housing and hanger brackets
- Die-cast aluminum heatsink
- Cast aluminum plaster frame with perforated face (*for trimless option*)
- Wet location option adds silicone flange gasket

Reflector Construction

Spun aluminum self-flanged reflector, anodized finish

Optical

- High reflectance, highly diffuse mixing chamber
- Engineered nano technology lens provide transmission while concealing LED image
- Lens options for SLD trim
- Solite Lens** for maximum efficacy and visually quieter aperture in 30°, 50° or 65° distributions
- Satin Ice Lens** for maximum source concealment and wide distribution with a visually "hotter" aperture in 75° distribution

LED

- Color Temp Options: 2700K, 3000K, 3500K, 4000K
- CRI: 83 typ. or 90+ typ.
 - Class A* 3000K (*high CRI, high gamut*) available
- R9 Values: 11 (83 CRI), 55 (92 CRI)
- Binning: 3 MacAdam (SDCM)
- Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs
- * **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: 16W, 21W, 30W, 34W, 42W, 46W
- Electronic constant current LED driver, 120/277VAC input
- 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*) or Trailing Edge (*ELV, Reverse Phase*)
- 0-10V, Lutron and DALI systems also available
- See pages 8-10 for more dimming information

Finish

- Powder coat paint/wet paint
- Consult factory for custom finishes

Mounting

- 26" Hanger bars included
- Optional **HB49** - hanger bars from min 29" to max 49" available
- Trimmed Fixture
- For use in grid or sheetrock ceilings, max ceiling thickness 1"
- Trimless Fixture
- For use in sheetrock ceilings, max ceiling thickness 5/8"

Certifications

- CSA approved to UL standards as tested by CSA
- Chicago Plenum (CCEA) (*optional, 16W, 21W & 30W only*)
- IC/AT rated (*optional, 16W & 21W only*)
- Damp location
- Wet location option
- Title 24 compliant

Warranty

- 5 year limited warranty

Emergency Battery Pack (EM)

- IOTA ILB-CP05 Emergency battery pack with remote test switch, output of 5W (*approx. 300 lumens*) for 90 minutes

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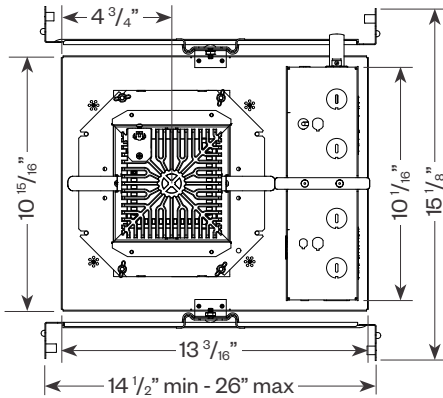
Square Lensed Downlight/Wall Wash



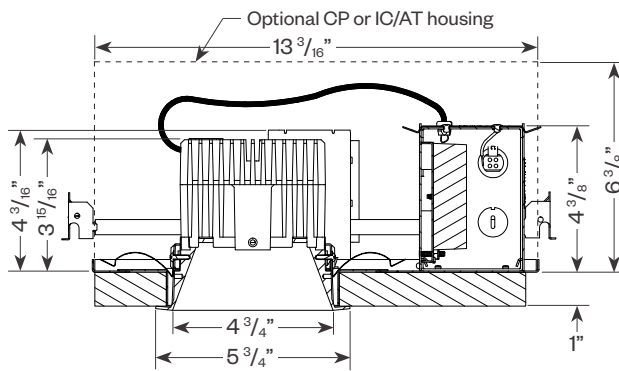
PROJECT:

TYPE:

Product Details - Square Lensed Downlight (SLD)

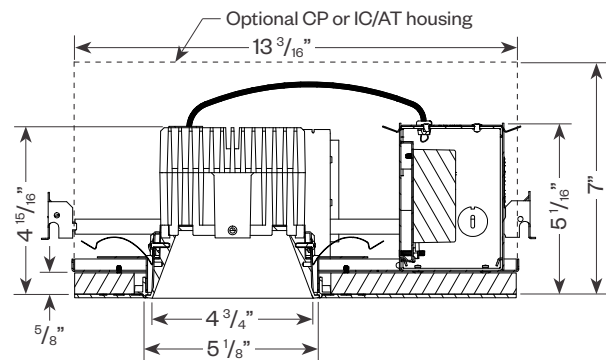


Trimmed



Ceiling cut out: $5 \frac{1}{8}$ " sq.

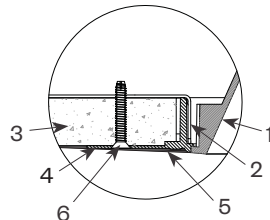
Trimless



Ceiling cut out: $5 \frac{13}{16}$ " sq.

Plaster Frame Installation Detail (for trimless fixture only)

1. Reflector Trim
2. Aperture plate
3. Ceiling $\frac{5}{8}$ "
4. Cast Aluminum Plaster Frame
5. Plaster Skim Coat (by others)
6. 6-32 Type F Thread Cutting Screw



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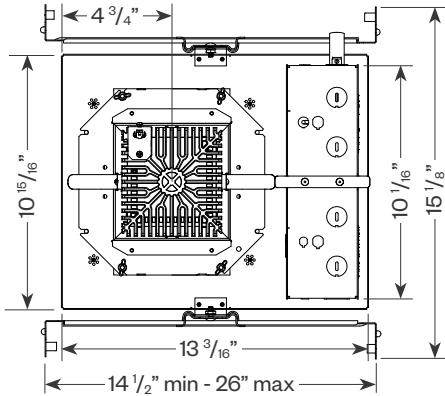
Square Lensed Downlight/Wall Wash



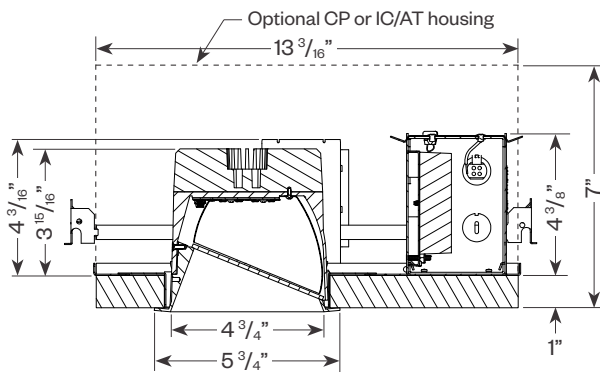
PROJECT:

TYPE:

Product Details - Square Lensed Wall Wash (SLW)

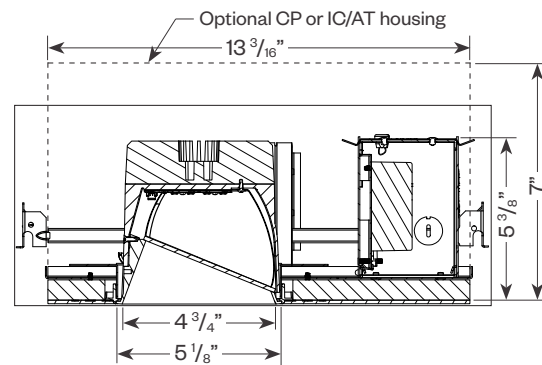


Trimmed



Ceiling cut out: 5 1/8" sq.

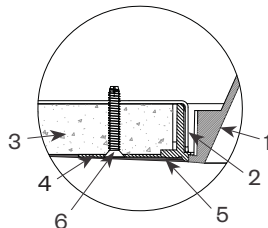
Trimless



Ceiling cut out: 5 13/16" sq.

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



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PROJECT:

TYPE:

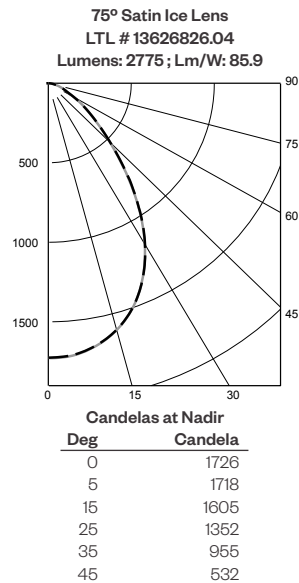
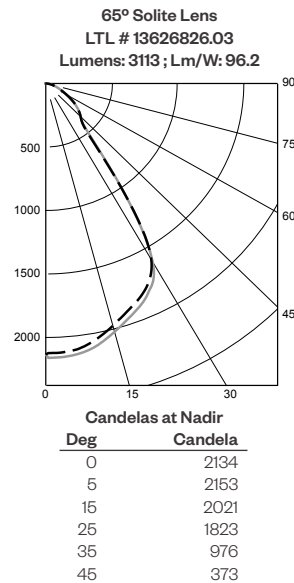
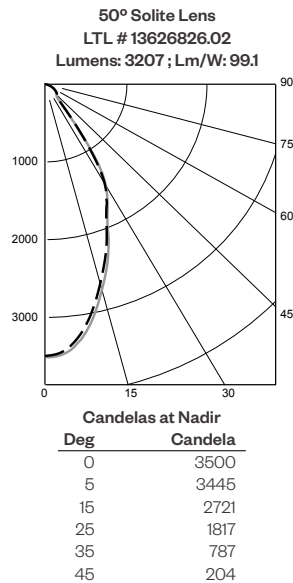
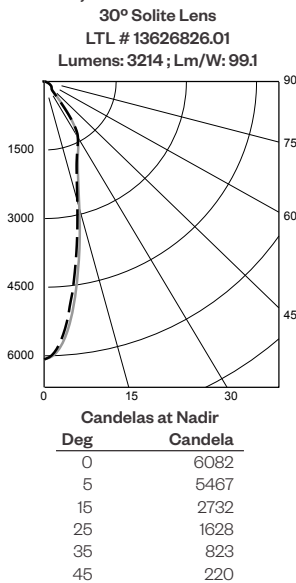
Performance Data - Square Lensed Downlight (SLD)

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

Wattage:	16W	21W	30W	34W	42W	46W
Factor:	0.47	0.62	0.88	1.0	1.24	1.33

CCT:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	3500K-90+	4000K-90+	3CLA
Factor:	0.96	1.0	1.02	1.04	0.83	0.86	0.90	0.93	0.70

34W LED, 3000K-83



Application Data



0° Aiming Angle
Horizontal
Footcandles

MULTIPLE UNITS
50'x50' Room, 10' Mounting Height

30SOL, 34W, 3000K-83 Optic

D	FC	L	W	FC on Floor (avg/max)	FC at 2.5' AFF (avg/max)
5.0'	244	2.4	2.3	82/120	85/130
7.5'	109	3.5	3.3	46/74	41/106
10.0'	62	4.6	4.4	32/65	33/100
12.5'	40	5.7	5.4		

50SOL, 34W, 3000K-83 Optic

D	FC	L	W	FC on Floor (avg/max)	FC at 2.5' AFF (avg/max)
5.0'	141	3.9	3.8	81/101	84/104
7.5'	63	5.8	5.7	46/58	48/73
10.0'	36	7.9	7.8	32/43	33/67
12.5'	23	10.1	9.9		

65SOL, 34W, 3000K-83 Optic

D	FC	L	W	FC on Floor (avg/max)	FC at 2.5' AFF (avg/max)
5.0'	86	5.6	5.6	77/98	80/100
7.5'	39	8.5	8.5	44/55	46/56
10.0'	22	11.5	11.5	30/37	32/47
12.5'	15	14.6	14.6		

75SAT, 34W, 3000K-83 Optic

D	FC	L	W	FC on Floor (avg/max)	FC at 2.5' AFF (avg/max)
5.0'	70	5.3	5.3	68/82	71/83
7.5'	31	8.0	8.0	38/46	40/50
10.0'	18	11.0	11.0	26/31	28/40
12.5'	12	14.2	14.2		

Notes and Definitions:

Beam spread is to 50% center beam candlepower (CBCP).

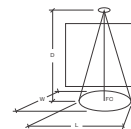
D=Distance to floor or wall.

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

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.



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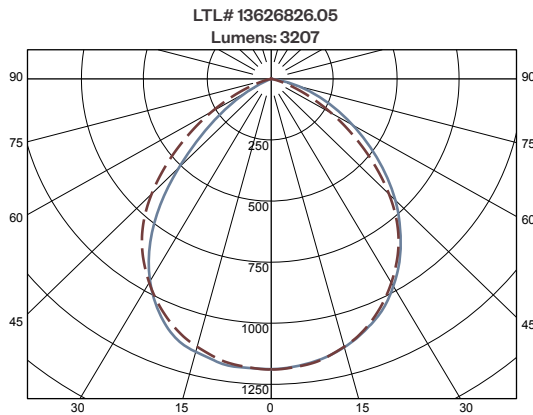
Performance Data - Square Lensed Wall Wash (SLW)

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

Wattage:	16W	21W	30W	34W	42W	46W
Factor:	0.47	0.62	0.88	1.0	1.24	1.33

CCT:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	3500K-90+	4000K-90+	3CLA
Factor:	0.96	1.0	1.02	1.04	0.83	0.86	0.90	0.93	0.70

34W 3000K-83



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1639	54.3
0-60	2464	87
0-90	2833	100.00
90-180	0	0.00

Luminaire Efficacy: 87.6 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.

2 Feet from Wall

		2'	2'	
Distance from ceiling	0.5'	52	46	53
	1.5'	134	131	137
	2.5'	123	127	128
	3.5'	90	94	95
	4.5'	64	67	68
	5.5'	46	48	49
	6.5'	35	36	37
	7.5'	27	28	29
	8.5'	23	23	24

2 Feet from Wall

		3'	3'	
Distance from ceiling	0.5'	45	31	31
	1.5'	101	85	86
	2.5'	89	86	86
	3.5'	66	66	66
	4.5'	48	49	50
	5.5'	36	37	38
	6.5'	28	29	30
	7.5'	23	23	24
	8.5'	19	20	20

3 Feet from Wall

		3'	3'	
Distance from ceiling	0.5'	16	15	15
	1.5'	50	48	48
	2.5'	63	63	63
	3.5'	59	60	61
	4.5'	50	52	53
	5.5'	41	42	43
	6.5'	34	35	35
	7.5'	28	29	30
	8.5'	24	24	25



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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 ---

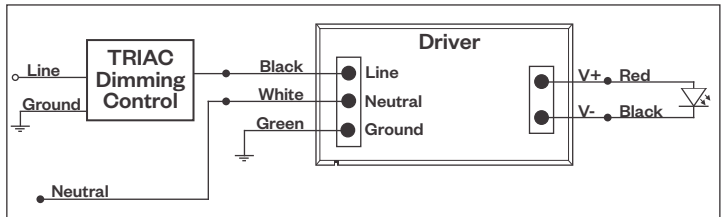
TRIAC (Forward Phase) Dimming

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 "Skylark"	

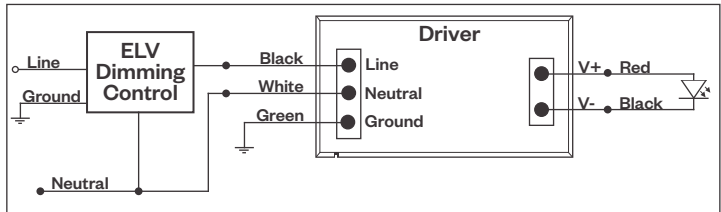
ELV - Electronic Low Voltage (Reverse Phase) Dimming

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 per dimming manufacturer

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 "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 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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Amerlux reserves the right to change details that do not affect overall function and performance.
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PROJECT:

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Dimming Compatibility *(continued)*

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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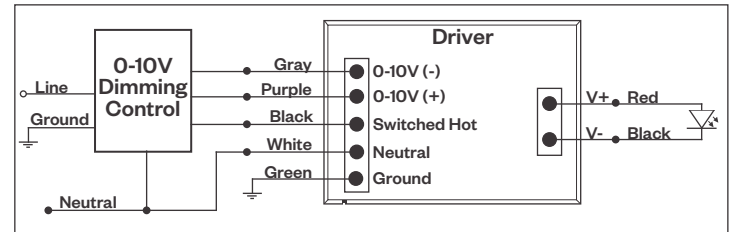
0-10V Dimming

Integrates into a variety of building management and daylighting controls

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!**

0-10V Wiring Diagram



Compatible Dimmers*:

Wall Box	Central System
Lutron "Diva" - DVSTV	Lutron Renoir II 0-10V
	Lutron Grafik Eye with GRX-TVI Interface

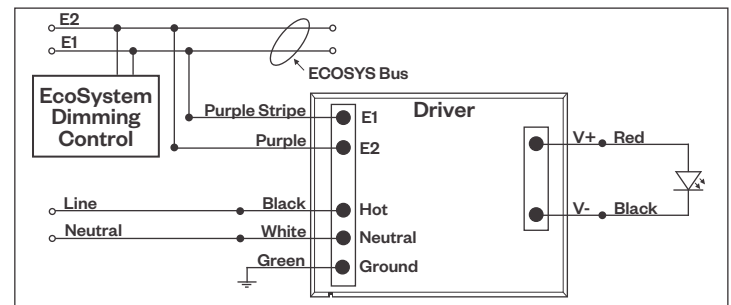
Lutron LDE1 Dimming

Integrates into Lutron EcoSystem building management

Notes:

- 120VAC or 277VAC*
- Dims down to 1% Soft-On/Fade-to-Black
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

LDE1 (HILUME-H-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

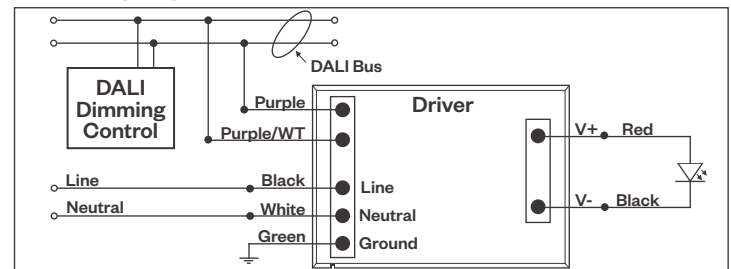
Notes:

- 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

DALI Wiring Diagram



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 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:

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Emergency Battery Pack

Wiring Diagram

