

# Evolve® 4.75"

## Square Adjustable C3

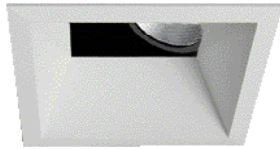


### Features

The Evolve® 4.75 C3 provides many wattage options, ranging from 18 watts to 33 watts with impressive performance, higher lumen delivery and consistent color. Available in Round or Square aperture in a trimmed or trimless version. Suitable for a variety of lighting schemes featuring general accent task and display applications Evolve® 4.75" C3 gives architects and lighting designers the flexibility to complete sustainable lighting designs.

### Product Overview

- Fixture Type: Recessed Adjustable
- Wattage: 18, 21, 25, 29, 33
- Color Temp: 2700K, 3000K, 3500K, 4000K
- CRI: 83 typ. (2700K, 3000K, 3500K, 4000K)  
90+ typ. (2700K, 3000K)  
CrispWhite LED Available
- Dimming: ELV & TRIAC (120/277VAC)  
Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black (120/277VAC)  
0-10V (120/277VAC) - 1% Dim  
DALI dimming - 1% Dim



Adjustable

### PROJECT:

### TYPE:



Trimless

### Fixture Type

Round/Square	New Construction	Trim	Trimless
Yes	Yes	Yes	Yes

See separate spec sheet for Round trim

### Electrical Data

	18W		21W		25W	
	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	18	0.15	21	0.18	25	0.21
277V	18	0.06	21	0.08	25	0.09

	29W		33W	
	System Watts	Amps	System Watts	Amps
120V	29	0.24	33	0.28
277V	29	0.10	33	0.12

Electronic constant current LED driver  
Includes thermal protector, 2w power consumption



# Evoke® 4.75"

4.75" Square Adjustable C3



## PROJECT:

## TYPE:

### Housing/Frame Ordering Information

1	2	3	4	5	6	7	8
<b>1</b> <u>Model</u> For New Construction <b>E4.75SA-C3-NC-A17</b> (New Construction) <b>E4.75SA-C3-CP-A17</b> (Chicago Plenum (CCEA))	<b>2</b> <u>Style</u> T - trimmed TL - trimless (not available for use with Grid ceiling)	<b>3</b> <u>Wattage</u> 18 21 25 29 33	<b>4</b> <u>Voltage</u> 120 277	<b>5</b> <u>Beam Spreads</u> NSP - narrow spot, 10° (based on availability, lead times may vary, consult factory) SP - spot, 15° FL - flood, 25° WF - wide flood, 40°	<b>6</b> <u>Color Temp</u> 83 CRI                      90+ CRI <b>27</b> - 2700K-83 <b>279</b> - 2700K-90+ <b>CRISP*</b> - CrispWhite <b>30</b> - 3000K-83 <b>309</b> - 3000K-90+ <b>3CLA*</b> - 3K Class A <b>35</b> - 3500K-83 <b>359</b> - 3500K-90+ <b>40</b> - 4000K-83 <b>409</b> - 4000K-90+ <b>* Not available with NSP beam spread</b>	<b>7</b> <u>Driver</u> (for non-dimming, select LE/TE option) <b>LE/TE</b> - TRIAC/ELV dimming <b>HILUME-H-ECO</b> - Lutron LDE1 Hi-lume® 1% Soft-On/ Fade-to-Black <b>0-10V</b> - 0-10V dimming, 1% dim <b>DALI</b> - DALI dimming, 1% dim	<b>8</b> <u>Options</u> <b>HB49</b> - hanger bars from min 29" to max 49" <b>HEX</b> - hexcell louver <b>SOL</b> - solite beam softening lens

### Trim Ordering Information

E4.75SA-C3-A17		
1	2	3
<b>1</b> <u>Model</u> <b>E4.75SA-C3-A17</b>	<b>2</b> <u>Style</u> T - trimmed TL - trimless (not available for use with Grid ceiling)	<b>3</b> <u>Finish</u> <u>For Trimmed Fixture</u> <b>MWW</b> - matte white, white flange <b>MBW</b> - matte black, white flange <b>SLVW</b> - matte silver, white flange <b>MBB</b> - matte black, black flange <u>For Trimless Fixture</u> <b>MW</b> - matte white <b>MB</b> - matte black <b>SLV</b> - matte silver

\* 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.

# Evolve® 4.75"

4.75" Square Adjustable C3



## PROJECT:

## TYPE:

### Specifications

#### Application

Retail and commercial accent and display lighting

#### Housing Construction

- 20 ga. steel painted matte black
- Formed aperture plate with 5/8" lip
- Cast aluminum plaster frame with perforated face (for trimless fixture only)
- Integral adjustable locking mounting bars
- Thermally protected
- Die-cast lamp housing and heatsink

#### Reflector Construction

- Die-cast aluminum seamless trim
- Steel mounting ring with torsion spring

#### Optical

- 0-35° lockable tilt, 360°+ rotation
- Beam Spreads:** Narrow Spot, 10°; Spot, 15°; Flood, 25°; Wide Flood, 40°

#### LED

- Color Temp Options:** 2700K, 3000K, 3500K, 4000K
- CRI:** 83 typ. (2700K, 3000K, 3500K, 4000K)  
90+ typ. (2700K, 3000K)
- CrispWhite\* and 3K Class A\*\* LEDs available
- R9 Values:** 11 (83 CRI), 55 (92 CRI)
- Binning:** 3 MacAdam (SDCM)

*\*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:** 18, 21, 25, 29, 33
- 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 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 7-8 for more dimming information

#### Finish

- Powder Coat/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) option

#### Warranty

5 year limited warranty

## Ceiling Types

Gyp Board	Acoustical Tile	Tech Zone	Mill Work*	
5/8" - 1"	3/4" - 2"	6"	3/4"	1 1/2"

\* Trimmed only

26" Hanger Bars included. Consult factory for hanger bars greater than 26"

# Evoke® 4.75"

4.75" Square Adjustable C3

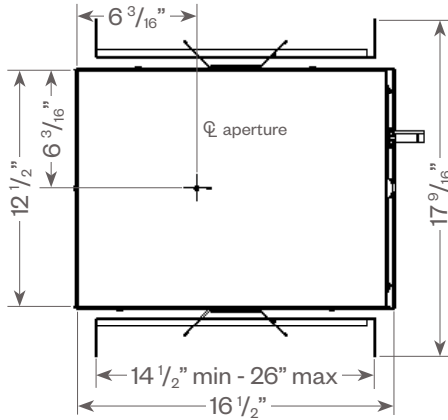


Evoke 4.75" SA-C3

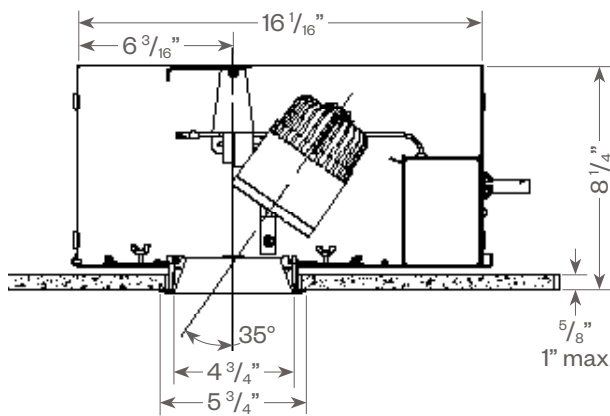
**PROJECT:**

**TYPE:**

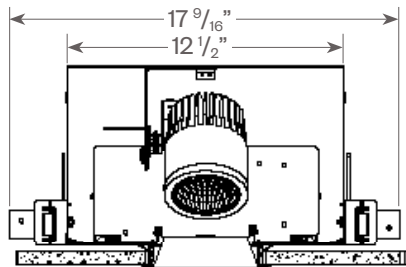
## Evoke Round Adjustable C3:



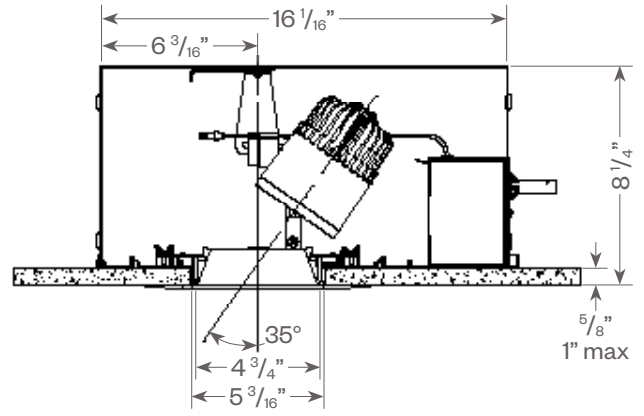
**Trimmed**



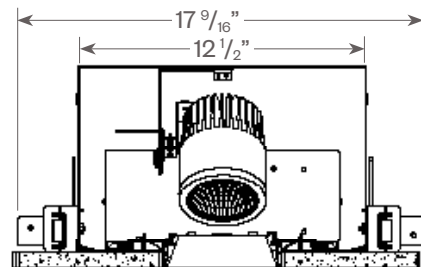
**Ceiling cut out: 5 1/4" sq.**



**Trimless**

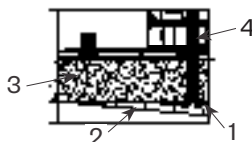


**Ceiling cut out: 5 7/8" sq.**



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

1. Cast Aluminum Plaster Frame
2. Plaster Skim Coat (by others)
3. Ceiling
4. Sheetrock Screw



# Evolve<sup>®</sup> 4.75"

4.75" Square Adjustable C3



## 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)

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

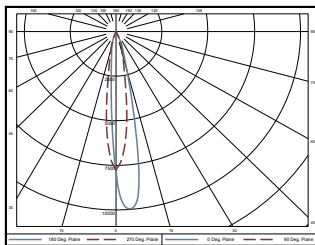
Wattage:	18W	21W	25W	29W	33W
Factor:	1.0	1.2	1.4	1.6	*

\* See data next page.

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

### 18W LED, 3000K-83

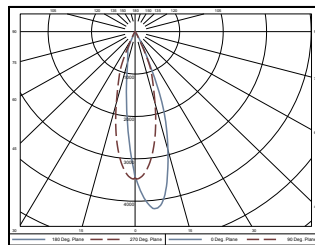
**Spot (SP) Distribution, 15°**  
LTL # 1167042  
Lumens: 1093 lm



**Candelas at Nadir**

Deg	Candela
0	7815
5	9947
15	2437
25	398
35	7
45	3

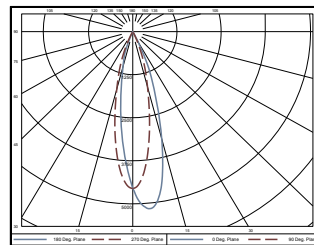
**Flood (FL) Distribution, 25°**  
LTL # 1167041  
Lumens: 1045 lm



**Candelas at Nadir**

Deg	Candela
0	3441
5	4148
15	2870
25	534
35	24
45	2

**Wide Flood (WF) Distribution, 40°**  
LTL # 1167043  
Lumens: 1108 lm



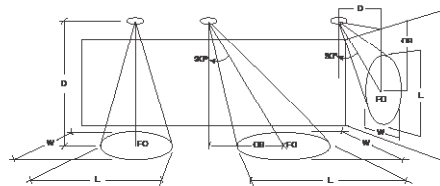
**Candelas at Nadir**

Deg	Candela
0	4558
5	5160
15	3236
25	807
35	27
45	3

### Application Data:

**0° Aiming Angle Horizontal Footcandles**

	D	FC	L	W
SPOT	5.0'	201	2.2	1.9
	7.5'	119	2.5	2.6
	10.0'	81	2.9	3.1
	12.5'	56	3.4	3.7
FLOOD	5.0'	121	2.6	2.8
	7.5'	66	3.3	3.9
	10.0'	39	4.3	5.1
	12.5'	25	5.3	6.3
WIDE FLOOD	5.0'	145	2.6	2.5
	7.5'	77	3.5	3.3
	10.0'	47	4.4	4.2
	12.5'	31	5.4	5.3



#### 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.

# Evolve<sup>®</sup> 4.75"

4.75" Square Adjustable C3



## 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)

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

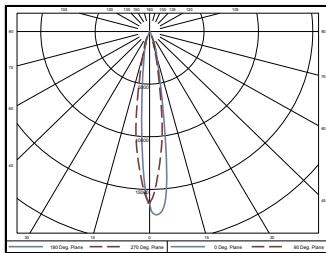
Wattage:	18W	21W	25W	29W	33W
Factor:	*	0.64	0.76	0.89	1.0

\* See data on previous page.

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

### 33W LED, 3000K-83

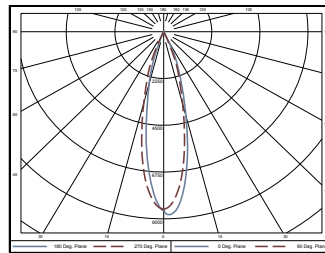
**Spot (SP) Distribution, 15°**  
LTL # 1167045  
Lumens: 1856 lm



**Candelas at Nadir**

Deg	Candela
0	16350
5	16410
15	2767
25	626
35	10
45	3

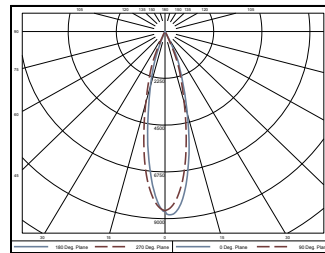
**Flood (FL) Distribution, 25°**  
LTL # 1167044  
Lumens: 1940 lm



**Candelas at Nadir**

Deg	Candela
0	8564
5	8344
15	3912
25	924
35	28
45	4

**Wide Flood (WF) Distribution, 40°**  
LTL # 1167046  
Lumens: 1942 lm



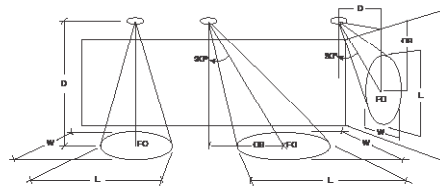
**Candelas at Nadir**

Deg	Candela
0	8632
5	8311
15	3838
25	851
35	28
45	4

### Application Data:



		D	FC	L	W
SPOT	5.0'	392	1.9	1.9	
	7.5'	219	2.4	2.6	
	10.0'	136	3.0	3.2	
	12.5'	92	3.6	3.8	
FLOOD	5.0'	274	2.5	2.6	
	7.5'	136	3.4	3.5	
	10.0'	80	4.4	4.6	
	12.5'	52	5.4	5.6	
WIDE FLOOD	5.0'	275	2.5	2.5	
	7.5'	137	3.4	3.5	
	10.0'	81	4.4	4.5	
	12.5'	53	5.4	5.5	



#### 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.

# Evoke<sup>®</sup> 4.75"

4.75" Square Adjustable C3



## 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 ---**

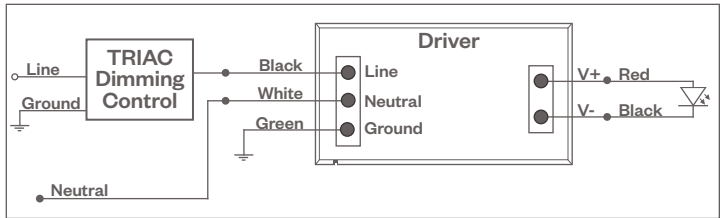
### TRIAC (Forward Phase) DIMMING (Standard)

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

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"	

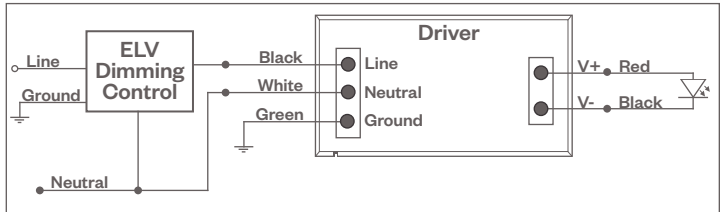
### ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

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 "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.

# Evoke® 4.75"

4.75" Square Adjustable C3



## 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 ---**

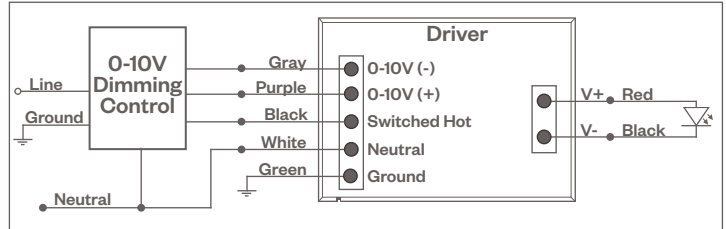
### 0-10V DIMMING

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

Lutron "Diva" - DVSTV | Leviton Renoir II 0-10V

##### Central System

Lutron Grafik Eye with GRX-TV1 Interface

### LUTRON LDE1 DIMMING

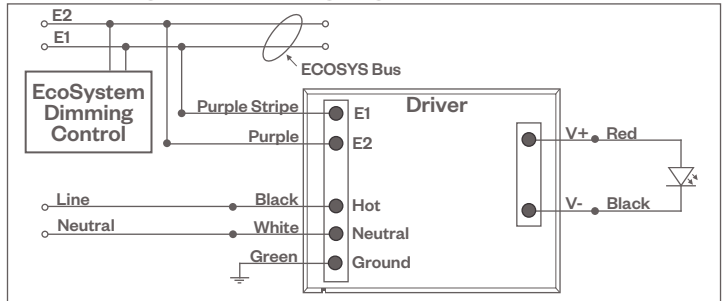
Integrates into Lutron EcoSystem building management

#### 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!

#### Lutron LDE1 (HILUME-H-ECO)

#### EcoSystem Digital Control Wiring Diagram



#### Compatible Dimmers\*:

##### Lutron ECO System

Pow Pak Dimming Modules  
Energj Savr Node  
Grafik Eye QS/Homeworks  
QS Control Unit  
Quantum Hub  
Homeworks QS/My Room

##### Central System

Lutron EcoSystem compatible controls

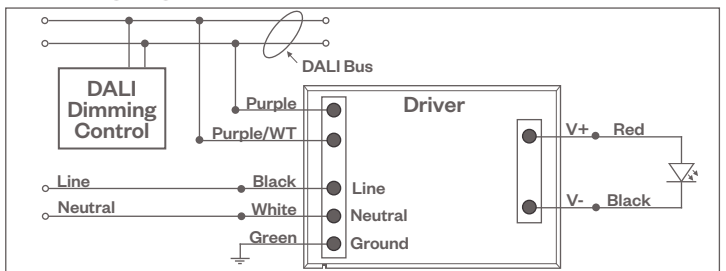
### DALI DIMMING

Digital control protocol allows individual fixture control

#### Notes:

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

#### DALI Wiring Diagram



#### Compatible Dimmers\*:

##### Wall Box (3-Wire Fluorescent)

Leviton CD250 Controller

##### Central System

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.