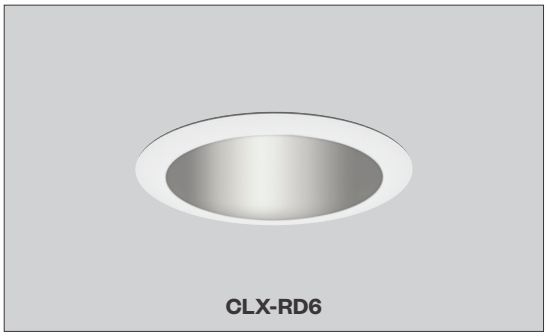
# Classix® 6”

## 6” Round Downlight

**PROJECT:** **TYPE:**

## Features

The Classix downlight shines new light on your bigger jobs. With a unique Amerlux® blend of architectural form and function, Classix performs perfectly in large retail and commercial spaces. Designed for higher ceilings, this downlight features high output, various beam options, and an optional commercial grade lens.



CLX-RD6

## Product Overview

| | |
|---|---|
| Type: | Recessed Round Downlight |
| Wattage: | 25W, 34W, 45W, 52W |
| Color Temp: | 2700K, 3000K, 3500K, 4000K |
| CRI: | 83 typ. *(2700K, 3000K, 3500K, 4000K)*<br>90+ typ. *(2700K, 3000K)*<br>CrispWhite & 3K Class A LEDs available |
| Dimming: | TRIAC & ELV, 5% Dim, 120/277VAC<br>0-10V, 1% Dim, 120/277VAC<br>DALI, 1% Dim, 120/277VAC |

## Certifications

5 year limited warranty

## Fixture Summary

**Fixture Type**

| Round | New Construction | Remodeler | Trim |
|---|---|---|---|
| Yes | Yes | Yes | Yes |

**Performance Data**

| Watts | Delivered Lumens | LPW | CBCP | Color Temp-CRI |
|---|---|---|---|---|
| 25 | 1970 | 79 | 11,136 | 3000K-83 |
| 34 | 2530 | 74.4 | 14,049 | 3000K-83 |
| 45 | 3207 | 71.2 | 17,809 | 3000K-83 |
| 52 | 3563 | 68.5 | 19,788 | 3000K-83 |

*Data is based on 52W 3000K-83 120V IES files available on website.*
*Data is Spot optic. See pg 5-6 for other beam spreads.*

**Electrical Data**

| | 25W | | 34W | | 45W | | 52W | |
|---|---|---|---|---|---|---|---|---|
| Voltage | System Watts | Amps | System Watts | Amps | System Watts | Amps | System Watts | Amps |
| 120V | 25 | 0.21 | 34 | 0.28 | 45 | 0.38 | 52 | 0.43 |
| 277V | 25 | 0.09 | 34 | 0.12 | 45 | 0.16 | 52 | 0.19 |

*Electronic constant current LED driver.*

# Classix® 6”

## 6” Round Downlight

amerlux

| PROJECT: | TYPE: |
|---|---|

## Ordering Information - Housing/Frame

_____ . _____ . _____ . _____ . _____

1 2 3 4 5

| 1 | Model |
|---|---|
| | For New Construction |
| | **CLX-R6-NC-A17** *(New Construction)* |
| | For Existing Ceilings |
| | **CLX-R6-REM-A17** *(Remodeler)* |

| 2 | Wattage |
|---|---|
| | **25** |
| | **34** |
| | **45** |
| | **52** |

| 3 | Voltage |
|---|---|
| | **120** |
| | **277** |

| 4 | Driver *(for non-dimming, select LE/TE option)* |
|---|---|
| | **LE/TE** TRIAC/ELV dimming, 5% dim |
| | **0-10V** 0-10V dimming, 1% dim |
| | **DALI** DALI dimming, 1% dim *(25W, 34W & 45W only)* |

| 5 | Options/Accessories |
|---|---|
| | **EM** emergency battery pack with remote test switch *(not available for use with REM option)* |
| | **HB49** hanger bars from min 29” to max 49” *(not available for use with REM option)* |
| | *Note: 26” hanger bars are included as standard. Choose **HB49** option above for larger mounting spaces only.* |

## Ordering Information - Trim

CLX-RD6-A17 . _____ . _____ . _____

1 2 3 4

| 1 | Model |
|---|---|
| | **CLX-RD6-A17** |

| 2 | Finish |
|---|---|
| | **SDW** semi-diffuse, white flange |
| | **SDC** semi-diffuse, clear flange *(flange finish matches cone finish)* |

| 3 | Beam Spread |
|---|---|
| | **SP** spot, 15° |
| | **FL** flood, 25° |
| | **WF** wide flood, 40° |

| 4 | Color Temp | | |
|---|---|---|---|
| | 83 CRI | 90+ CRI | |
| | **27** 2700K-83 | **279** 2700K-90+ | **CRISP** CrispWhite |
| | **30** 3000K-83 | **309** 3000K-90+ | **3CLA** 3K Class A |
| | **35** 3500K-83 | | |
| | **40** 4000K-83 | | |

# Classix® 6”

## 6” Round Downlight

| PROJECT: | TYPE: |
|---|---|

## Specifications

**Application**

Retail, commercial and hospitality ambient lighting

**Construction**

20 ga. galvanized steel frame
18 ga. galvanized steel splice housing and hanger brackets *(not for Remodeler version)*
Passive cooling
Extruded aluminum heat sink

**Optical**

Spun aluminum semi-diffuse aperture cone
Spun aluminum upper reflector

**LED**

Color Temp Options: 2700K, 3000K, 3500K, 4000K, CRISP, Class A
CRI: 83 typ. *(2700K, 3000K, 3500K, 4000K)*
90+ typ. *(2700K, 3000K)*
CrispWhite* and Class A** 3000K *(high CRI, high gamut)* available *(see description below)*
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: 25W, 34W, 45W, 52W
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 and DALI systems also available
*See pages 7-8 for more dimming information*

**Finish *(Trim)***

Wet paint

**Mounting**

For use in T-Grid or GB ceilings; max ceiling thickness 1”
26” Hanger bars included *(except for Remodeler versions)*
Optional **HB49** - hanger bars from min 29” to max 49” available
*Consult Factory for thicker ceilings*

**Certifications**

CSA damp as tested to UL 1598 standards
Damp location

**Warranty**

5 year limited warranty

**Emergency Battery Pack *(EM)***

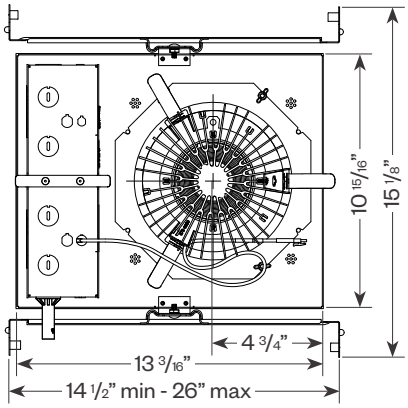
IOTA ILB-CP05 Emergency battery pack with remote test switch, output of 5W *(approx. 300 lumens)* for 90 minutes

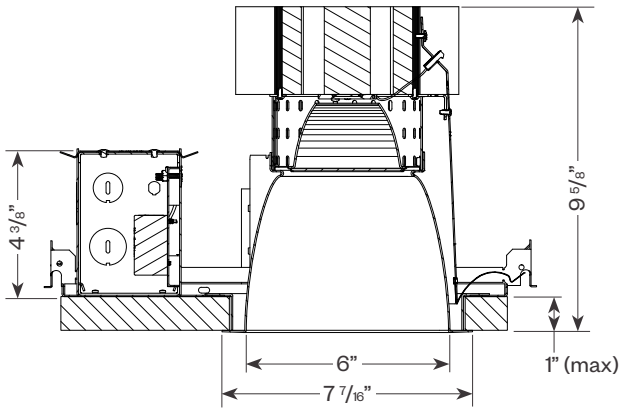
# Classix® 6”

6” Round Downlight

| PROJECT: | TYPE: |
|---|---|

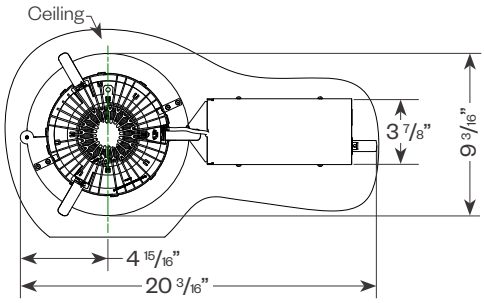
## Product Details - New Construction

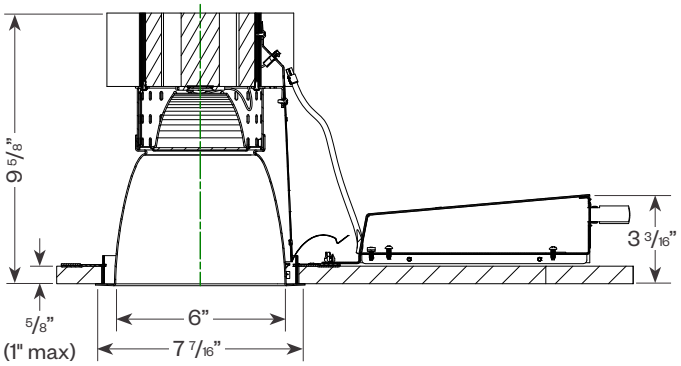



**Ceiling Cut Out:** 7” dia.

## Product Details - Remodeler




**Ceiling cut out:** 7” dia.

# Classix® 6”

## 6” Round Downlight

amerlux

| PROJECT: | TYPE: |
|---|---|

## Performance Data

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

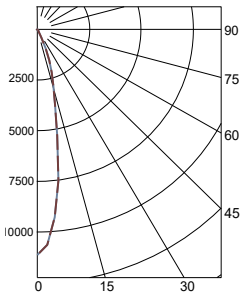
| Wattage: | 25W | 34W | 45W |
|---|---|---|---|
| Factor: | 1.0 | 1.4 | 1.8 |

**For 52W data see next page**

| CCT: | 2700K-83 | 3000K-83 | 3500K-83 | 4000K-83 | 2700K-90+ | 3000K-90+ | CRISP | 3CLA |
|---|---|---|---|---|---|---|---|---|
| Factor: | 0.96 | 1.0 | 1.02 | 1.04 | 0.80 | 0.83 | 0.65 | 0.70 |

### 25W LED (3000K-83)

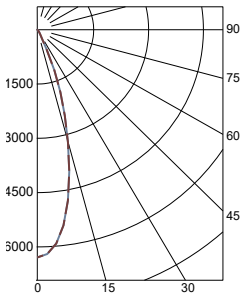
**Spot Distribution**
**LTL #1026868**
**Lumens: 1,970; 79 Lm/W**
**CBCP: 11,136**




**Candelas at Nadir**

| Deg | Candela |
|---|---|
| 0 | 11136 |
| 5 | 9304 |
| 15 | 2887 |
| 25 | 440 |
| 35 | 93 |
| 45 | 39 |

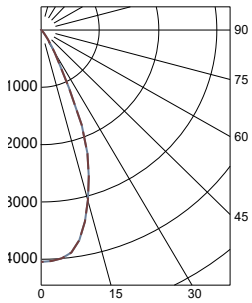
**Flood Distribution**
**LTL #1026867**
**Lumens: 1,866; 74.9 Lm/W**
**CBCP: 6,290**




**Candelas at Nadir**

| Deg | Candela |
|---|---|
| 0 | 6290 |
| 5 | 5927 |
| 15 | 3221 |
| 25 | 597 |
| 35 | 105 |
| 45 | 37 |

**Wide Flood Distribution**
**LTL #1026866**
**Lumens: 1,951; 78.3 Lm/W**
**CBCP: 4,046**

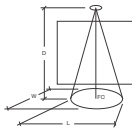



**Candelas at Nadir**

| Deg | Candela |
|---|---|
| 0 | 4046 |
| 5 | 3998 |
| 15 | 3060 |
| 25 | 1114 |
| 35 | 197 |
| 45 | 37 |

## Application Data

**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.




**0° Aiming Angle Horizontal Footcandles**

| | D | FC | L | W |
|---|---|---|---|---|
| SPOT | 5.0' | 444 | 1.6 | 1.6 |
| | 7.5' | 198 | 2.7 | 2.7 |
| | 10.0' | 112 | 3.4 | 3.4 |
| | 12.5' | 72 | 4.3 | 4.3 |

**0° Aiming Angle Horizontal Footcandles**

| | D | FC | L | W |
|---|---|---|---|---|
| FLOOD | 5.0' | 252 | 2.6 | 2.6 |
| | 7.5' | 112 | 3.8 | 3.8 |
| | 10.0' | 63 | 5.1 | 5.1 |
| | 12.5' | 41 | 6.4 | 6.4 |

**0° Aiming Angle Horizontal Footcandles**

| | D | FC | L | W |
|---|---|---|---|---|
| WIDE FLOOD | 5.0' | 162 | 3.5 | 3.5 |
| | 7.5' | 72 | 5.2 | 5.2 |
| | 10.0' | 41 | 7.0 | 7.0 |
| | 12.5' | 26 | 8.7 | 8.7 |

# Classix® 6”

## 6” Round Downlight

**PROJECT:** **TYPE:**

## Performance Data

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

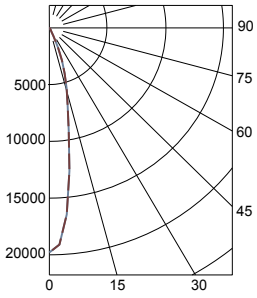
| Wattage: | 34W | 45W | 52W |
|---|---|---|---|
| Factor: | 0.71 | 0.90 | 1.0 |

**For 25W data see previous page**

| CCT: | 2700K-83 | 3000K-83 | 3500K-83 | 4000K-83 | 2700K-90+ | 3000K-90+ | CRISP | 3CLA |
|---|---|---|---|---|---|---|---|---|
| Factor: | 0.96 | 1.0 | 1.02 | 1.04 | 0.80 | 0.83 | 0.65 | 0.70 |

### 52W LED (3000K-83)

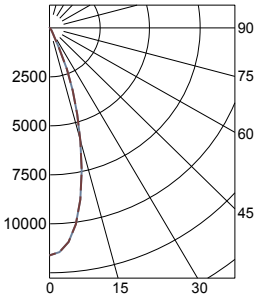
**Spot Distribution**
**LTL #1026865**
**Lumens: 3,563; 68.5 Lm/W**
**CBCP: 19,788**




**Candelas at Nadir**

| Deg | Candela |
|---|---|
| 0 | 19788 |
| 5 | 16499 |
| 15 | 5520 |
| 25 | 813 |
| 35 | 173 |
| 45 | 73 |

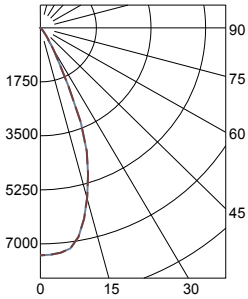
**Flood Distribution**
**LTL #1026863**
**Lumens: 3,457; 66.4 Lm/W**
**CBCP: 11,614**




**Candelas at Nadir**

| Deg | Candela |
|---|---|
| 0 | 11614 |
| 5 | 10971 |
| 15 | 5987 |
| 25 | 1089 |
| 35 | 193 |
| 45 | 68 |

**Wide Flood Distribution**
**LTL #1026864**
**Lumens: 3,607; 69.3 Lm/W**
**CBCP: 7,373**

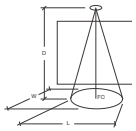



**Candelas at Nadir**

| Deg | Candela |
|---|---|
| 0 | 7373 |
| 5 | 7315 |
| 15 | 5677 |
| 25 | 2088 |
| 35 | 350 |
| 45 | 70 |

## Application Data

**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.



**0° Aiming Angle Horizontal Footcandles**

| | D | FC | L | W |
|---|---|---|---|---|
| SPOT | 5.0’ | 790 | 1.6 | 1.6 |
| | 7.5’ | 352 | 2.7 | 2.7 |
| | 10.0’ | 198 | 3.4 | 3.4 |
| | 12.5’ | 127 | 4.1 | 4.1 |

**0° Aiming Angle Horizontal Footcandles**

| | D | FC | L | W |
|---|---|---|---|---|
| FLOOD | 5.0’ | 465 | 2.6 | 2.6 |
| | 7.5’ | 207 | 3.8 | 3.8 |
| | 10.0’ | 117 | 5.2 | 5.2 |
| | 12.5’ | 75 | 6.5 | 6.5 |

**0° Aiming Angle Horizontal Footcandles**

| | D | FC | L | W |
|---|---|---|---|---|
| WIDE FLOOD | 5.0’ | 296 | 3.5 | 3.5 |
| | 7.5’ | 132 | 5.3 | 5.3 |
| | 10.0’ | 74 | 7.0 | 7.0 |
| | 12.5’ | 48 | 8.9 | 8.9 |

# Classix® 6”

## 6” Round Downlight

amerlux

| PROJECT: | TYPE: |
|---|---|

## Dimming Compatibility

Amerlux® Classix® 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 ---**

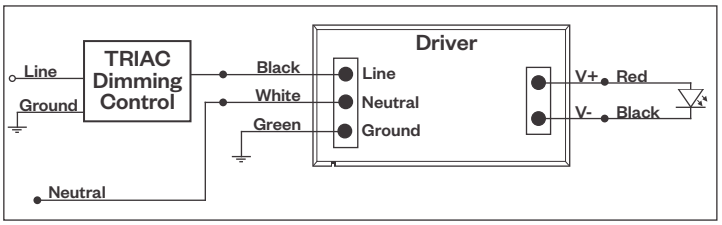
### TRIAC *(Forward Phase)* Dimming

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” | |

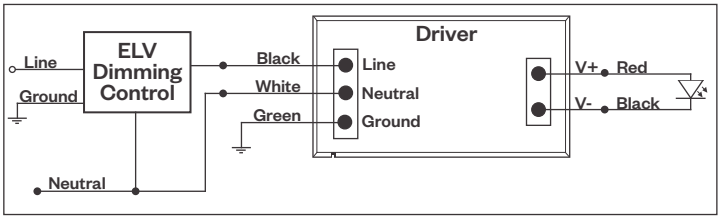
### ELV - Electronic Low Voltage *(Reverse Phase)* Dimming

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.

# Classix® 6”

## 6” Round Downlight

| PROJECT: | TYPE: |
|---|---|

## Dimming Compatibility *(continued)*

Amerlux® Classix® 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 ---**

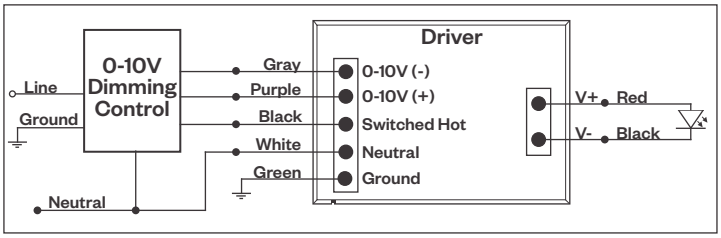
### 0-10V Dimming

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** | | **Central System** |
| Lutron “Diva” - DVSTV | Leviton Renoir II 0-10V | Lutron Grafik Eye with GRX-TVI Interface |

### DALI Dimming

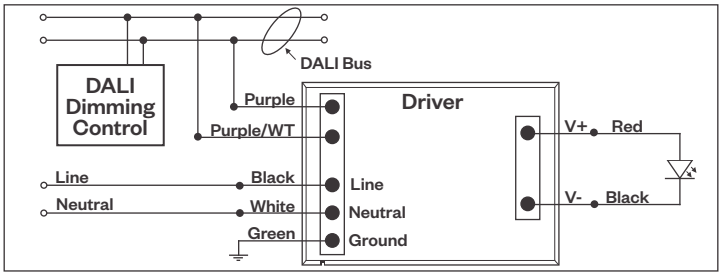
Digital control protocol allows individual fixture control

**Notes:**

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

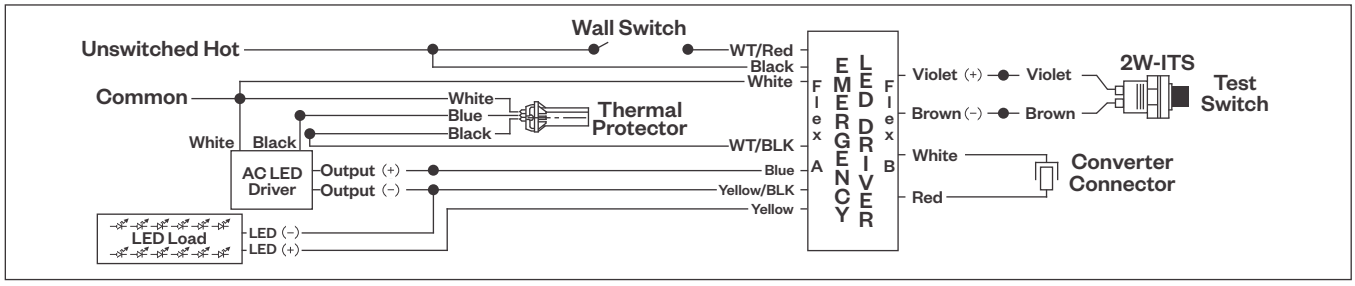
| Compatible Dimmers†: | |
|---|---|
| **Wall Box** *(3-Wire Fluorescent)* | **Central System** |
| Leviton CD250 Controller | Dynalite |
| | Fifth Light |

### DALI Wiring Diagram




## Emergency Battery Pack

### 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.