

# Rook® 250 Mini

2.5" Mini Round Pendant, Direct/Indirect



PROJECT:

TYPE:

## Features

The Rook 250 pendant is the ultimate, all-in-one cylinder lighting fixture, with integral drivers that allow for quick and easy installation and the ability to control direct and indirect lighting separately. Measuring 9" in height, the Rook 250 offers single-point suspension, surface and single-circuit track mounting options and maximizes a 2.5" aperture with several performance outputs and finishes to stir and grab attention.



## Product Overview

Type: Round Pendant, Direct/indirect, Remote Driver  
 Wattage: Direct: 6W, 8W, 10W, 12W  
 Indirect: 10W  
 Color Temp: 2700K, 3000K, 3500K, 4000K  
 CRI: 80+ typ. or 90+ typ.  
 Dimming: TRIAC & ELV, 5% dim, 120V/277VAC  
 0-10V, 1% dim, 120V/277VAC  
 Lutron Hi-lume® EcoSystem Premier 0.1% dim with soft-on& fade-to-black, 120V/277VAC (consult factory for availability)  
 DALI, 1% dim, 120V/277VAC  
 Power over ethernet (PoE), consult factory

## Certifications



## Fixture Summary

### Performance Data

Direct		Indirect		Total	Total	Color Temp	CRI
Watts	Lumens	Watts	Lumens	Lumens	LPW		
6	643	10	540	1183	73.9	3000K	80+
8	845	10	540	1385	76.9	3000K	80+
10	1028	10	540	1568	78.4	3000K	80+
12	1212	10	540	1752	79.6	3000K	80+

Data is based on 3000K-80+ 120V IES files available on website.

### Electrical Data

Voltage	16W		18W		20W		22W	
	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	16	0.13	18	0.15	20	0.17	22	0.18
277V	16	0.06	18	0.07	20	0.07	22	0.08

Electronic constant current LED driver

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## Ordering Information

RK250MRDI	10	105												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

1 Model	2 Wattage - Direct	3 Wattage - Indirect	4 Housing Finish
RK250MRDI round direct/indirect, remote driver	<b>6</b> 6W (643 lm) <b>8</b> 8W (845 lm) <b>10</b> 10W (1028 lm) <b>12</b> 12W (1212 lm) (Lumens delivered @ 83 CRI/30K/55° beam)	<b>10</b> 10W (544 lm) (Lumens delivered @ 80 CRI/30K/105° beam)	<b>MW</b> matte white <b>MB</b> matte black <b>SLV</b> matte silver _____ custom RAL finish

5 Mounting	6 Suspension	7 Mounting/Suspension Finish
<u>Driver in Canopy</u> <b>PC</b> power canopy <b>PCDC</b> power conduit canopy <u>Driver in Remote Box</u> <b>C</b> canopy <b>CDC</b> conduit canopy <b>RC</b> reduced canopy	<u>Cord (nominal overall length, field adjustable)</u> <b>C4</b> cord, 4' <b>C8</b> cord, 8' <u>Stem (nominal overall length, stems can be field cuttable)</u> <b>RS4</b> rigid stem, 4' <b>RS8</b> rigid stem, 8' <b>SS4*</b> swivel stem, 4' <b>SS8*</b> swivel stem, 8' *C or RC mounting only	<b>MW</b> matte white <b>MB</b> matte black <b>SLV</b> matte silver

8 Voltage	9 Trim Finish	10 Beam Spread - Direct	11 Beam Spread - Indirect
<b>120-277</b> 120V-277V	<b>MW</b> matte white <b>MB</b> matte black <b>SLV</b> matte silver _____ custom RAL finish	<b>30</b> 30° <b>35</b> 35° <b>55</b> 55°	<b>105</b> 105°

12 Color Temp and CRI - Direct	13 Color Temp and CRI - Indirect																				
<table border="0"> <tr> <td>80+ CRI</td> <td>90+ CRI</td> </tr> <tr> <td><b>27</b> 2700K, 80+</td> <td><b>279</b> 2700K, 90+</td> </tr> <tr> <td><b>30</b> 3000K, 80+</td> <td><b>309</b> 3000K, 90+</td> </tr> <tr> <td><b>35</b> 3500K, 80+</td> <td><b>359</b> 3500K, 90+</td> </tr> <tr> <td><b>40</b> 4000K, 80+</td> <td><b>409</b> 4000K, 90+</td> </tr> </table>	80+ CRI	90+ CRI	<b>27</b> 2700K, 80+	<b>279</b> 2700K, 90+	<b>30</b> 3000K, 80+	<b>309</b> 3000K, 90+	<b>35</b> 3500K, 80+	<b>359</b> 3500K, 90+	<b>40</b> 4000K, 80+	<b>409</b> 4000K, 90+	<table border="0"> <tr> <td>80+ CRI</td> <td>90+ CRI</td> </tr> <tr> <td><b>27</b> 2700K, 80+</td> <td><b>279</b> 2700K, 90+</td> </tr> <tr> <td><b>30</b> 3000K, 80+</td> <td><b>309</b> 3000K, 90+</td> </tr> <tr> <td><b>35</b> 3500K, 80+</td> <td><b>359</b> 3500K, 90+</td> </tr> <tr> <td><b>40</b> 4000K, 80+</td> <td><b>409</b> 4000K, 90+</td> </tr> </table>	80+ CRI	90+ CRI	<b>27</b> 2700K, 80+	<b>279</b> 2700K, 90+	<b>30</b> 3000K, 80+	<b>309</b> 3000K, 90+	<b>35</b> 3500K, 80+	<b>359</b> 3500K, 90+	<b>40</b> 4000K, 80+	<b>409</b> 4000K, 90+
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14 Driver	15 Options/Accessories
<b>LE/TE</b> TRIAC/ELV dimming, 5% dim <b>0-10V</b> 0-10V dimming, 1% dim <b>HILUME-P-ECO</b> Lutron Hi-lume® EcoSystem Premier 0.1% dim with soft-on and fade-to-black, 120V/277VAC (consult factory for availability) <b>DALI†</b> DALI dimming, 1% dim <b>POE</b> PoE, consult factory † Only available in Remote Box Mounting options	<u>Glare Control (can only take one)</u> <b>SOL</b> solite beam softening lens <b>HEX</b> hexcell louver <u>Decorative</u> <b>GDC**</b> 1/2" glow lens, direct, clear <b>GDF**</b> 1/2" glow lens, direct, frosted ** Consult factory for custom length and/or for availability.

# Rook® 250 Mini

2.5" Mini Round Pendant, Direct/Indirect



PROJECT:

TYPE:

## Specifications

### Application

Retail and commercial ambient/task lighting

### Construction

Extruded aluminum pendant housing  
Die-cast trim  
Laser cut aluminum heat sink

### Optical

Direct Beam Spreads: 30°, 35°, 55°  
Indirect Beam Spread: 105°  
Optional Glow Lens - 1/2" acrylic glow lens (*clear or frosted*)

### LED

Color Temp: 2700K, 3000K, 3500K, 4000K  
CRI: 80+ typ. or 90+ typ.  
R9 Values: 11 (*83 CRI*), 55 (*92 CRI*)  
Binning: 3 MacAdam (*SDCM*)  
Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

### Electrical

Wattage: Direct: 6W, 8W, 10W, 12W Indirect: 10W  
Electronic constant current LED driver, 120V-277V input  
Fixture is 2 circuit by default, can wired as 1 or 2 circuit in the field.  
***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; 5% dim  
0-10V dimming, 1% dim  
Lutron Hi-lume EcoSystem Premier 0.1% dim with soft on & fade to black, 120/277VAC (*consult factory for availability*)  
DALI dimming, 1% dim (*must use remote driver box*)  
PoE, consult factory  
*See pages 6-7 for more dimming information*

### Finish

Powder coat paint  
*Consult factory for custom finishes*

### Mounting

Driver in Canopy: Power canopy or power conduit canopy  
Driver in Remote Box: Canopy, conduit canopy or reduced canopy

### Suspension

Cord: 4 ft or 8 ft nominal lengths, field adjustable, 22 AWG  
Stem: 4 ft or 8 ft nominal lengths, rigid or swivel, field cuttable

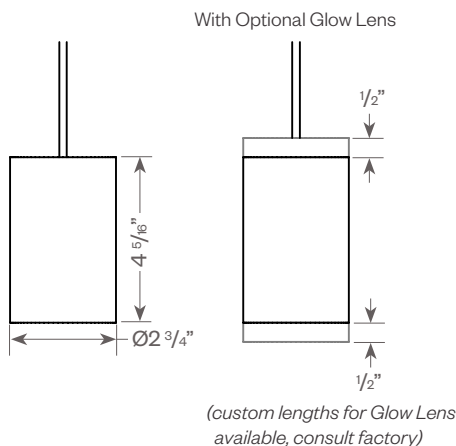
### Certifications

CSA tested to UL standards  
Indoor use only  
Damp location

### Warranty

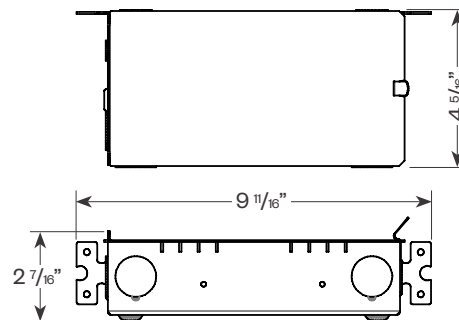
5 year limited warranty

## Product Details



## Remote Driver Box

Maximum recommended distance is 100' with 18 gauge cable (*by others*) from remote driver box to RK250 cylinder. Distance calculation must include suspension cable length.



Canopy (C), Conduit Canopy (CDC) & Reduced Canopy (RC)  
Mounts Include Remote Driver Box

# Rook® 250 Mini

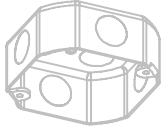
2.5" Mini Round Pendant, Direct/Indirect



PROJECT:

TYPE:

## Junction Box Mounting Requirements

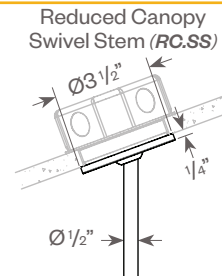
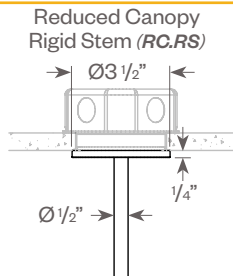
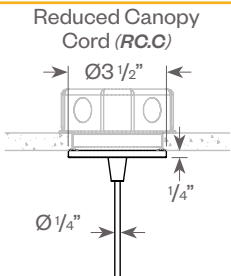
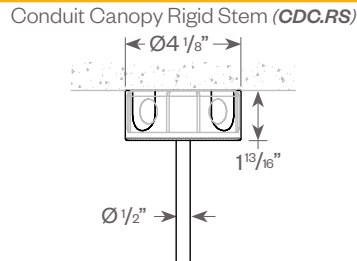
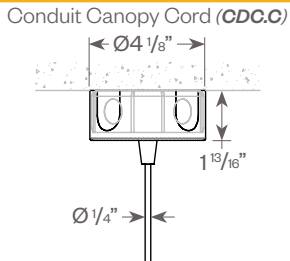
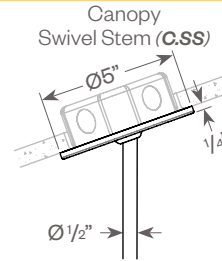
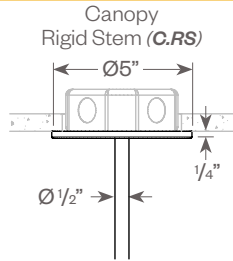
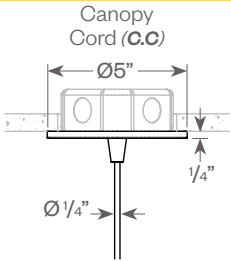
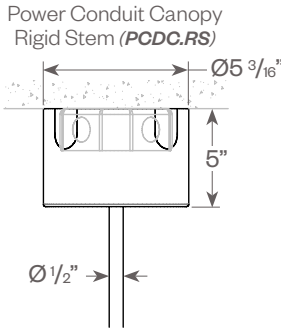
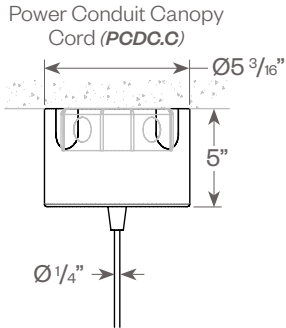
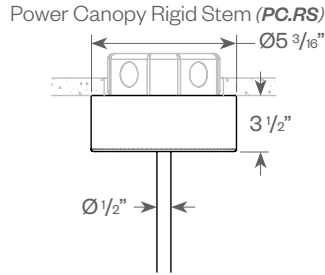
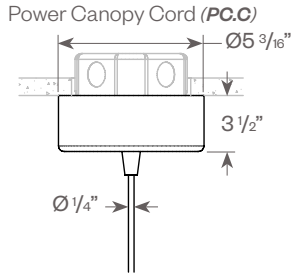


Canopy (C) & Conduit Canopy (CDC) Mounts  
Require 4" Octagonal Junction Box (by others)



Reduced Canopy (RC) Mounts also  
Require Raised Cover (by others) for  
4" Octagonal Junction Box

## Mounting Options



# Rook® 250 Mini

## 2.5" Mini Round Pendant, Direct/Indirect



**PROJECT:** \_\_\_\_\_ **TYPE:** \_\_\_\_\_

### Performance Data

**Multiplying Factors:** (Multiplying Factor is based on 3000K, 80+ 120V IES file on website)

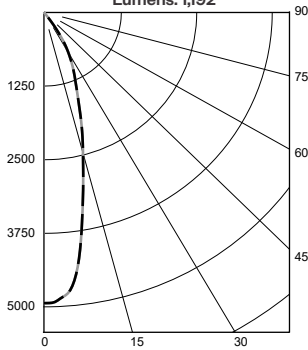
<b>Wattage:</b>	<b>6W</b>	<b>8W</b>	<b>10W</b>	<b>12W</b>	<b>20W*</b>
Factor:	0.35	0.46	0.56	0.66	1.0

\* Multiplying factors based on an IES 20W tested fixture. 20W is not available for this fixture type.

<b>OCT:</b>	<b>2700K, 80+</b>	<b>3000K, 80+</b>	<b>3500K, 80+</b>	<b>4000K, 80+</b>	<b>2700K, 90+</b>	<b>3000K, 90+</b>	<b>3500K, 90+</b>	<b>4000K, 90+</b>
Factor:	0.96	1.0	1.02	1.04	0.80	0.83	0.87	0.90

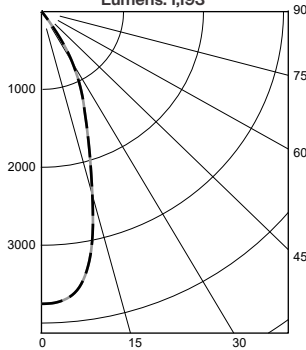
#### 12W, 3000K, 80+, Direct

30° Distribution  
LTL #14366195.01  
Lumens: 1,192



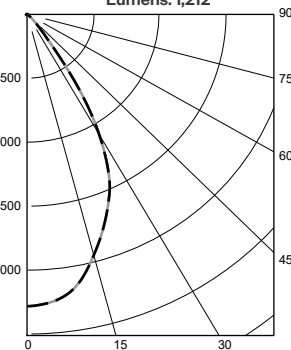
Candelas at Nadir	
Deg	Candela
0	3258
5	3125
15	1559
25	733
35	197
45	14

35° Distribution  
LTL #14366195.02  
Lumens: 1,193



Candelas at Nadir	
Deg	Candela
0	2477
5	2439
15	1603
25	789
35	210
45	16

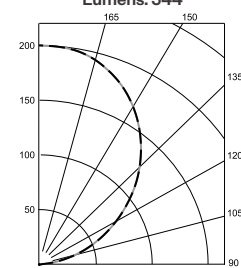
55° Distribution  
LTL #14366195.04  
Lumens: 1,212



Candelas at Nadir	
Deg	Candela
0	1507
5	1487
15	1277
25	958
35	348
45	51

#### 10W, 3000K, 80+, Indirect

105° Distribution  
LTL #14271976.09  
Lumens: 544



#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	0	0.0
0-60	0	0.0
0-90	0	0.0
90-180	544	100.0

Efficacy = 52 Lumens/Watt

### Application Data - Direct Only

#### Notes and Definitions:

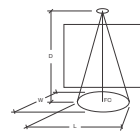
Beam spread is to 50% center beam candlepower (CBCP).

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).



0° Aiming Angle  
Horizontal  
Footcandles

#### 30° Distribution

D	FC	L	W
5.0'	112	2.9	2.9
7.5'	55	3.8	3.8
10.0'	32	5.0	5.0
12.5'	21	6.1	6.1



0° Aiming Angle  
Horizontal  
Footcandles

#### 35° Distribution

D	FC	L	W
5.0'	92	3.2	3.2
7.5'	43	4.8	4.8
10.0'	24	6.2	6.2
12.5'	16	7.6	7.6



0° Aiming Angle  
Horizontal  
Footcandles

#### 55° Distribution

D	FC	L	W
5.0'	57	4.6	4.6
7.5'	26	6.6	6.6
10.0'	15	9.0	9.0
12.5'	10	11.4	11.4

# Rook® 250 Mini

2.5" Mini Round Pendant, Direct/Indirect



PROJECT:

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## Dimming Compatibility

Amerlux® Rook® 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 ---

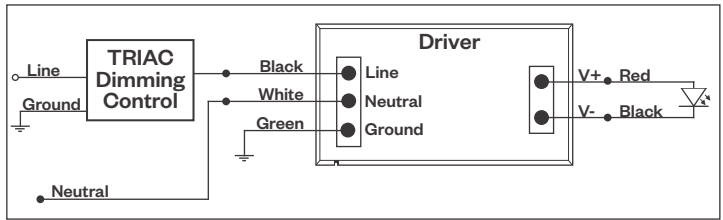
### TRIAC (Forward Phase) Dimming

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"	

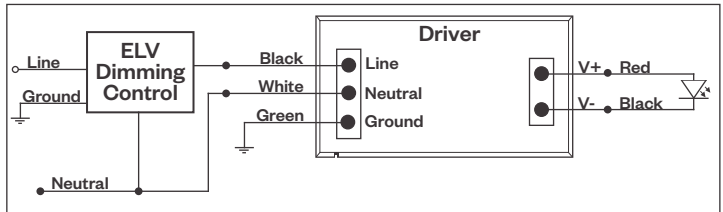
### ELV - Electronic Low Voltage (Reverse Phase) Dimming

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.

# Rook® 250 Mini

2.5" Mini Round Pendant, Direct/Indirect



**PROJECT:**

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## Dimming Compatibility *(continued)*

Amerlux® Rook® 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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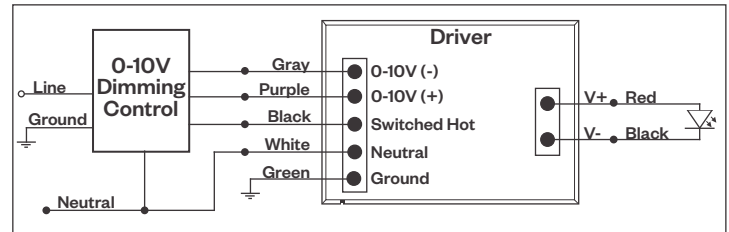
### 0-10V DIMMING

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 Grafik Eye with GRX-TVI Interface

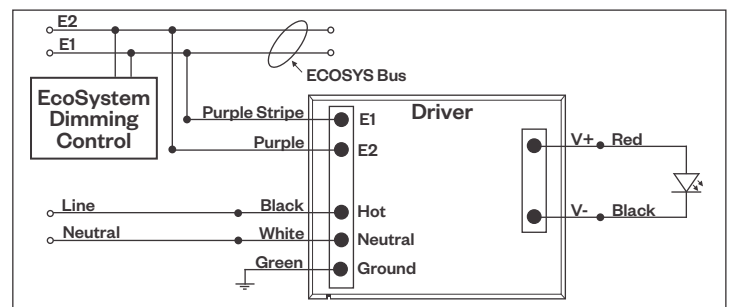
### LUTRON P-SERIES / ECOSYSTEM

Integrates into Lutron EcoSystem building management

**Notes:**

- 120VAC or 277VAC\*
- Dims down to 0.1% light output
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

### HILUME-P-ECO EcoSystem Digital Control Wiring Diagram



**Compatible Dimmers\*:**

Wall Box	Central System
Lutron "Diva"	Lutron EcoSystem compatible controls
Lutron "Nova-T"	
Lutron "Maestro"	

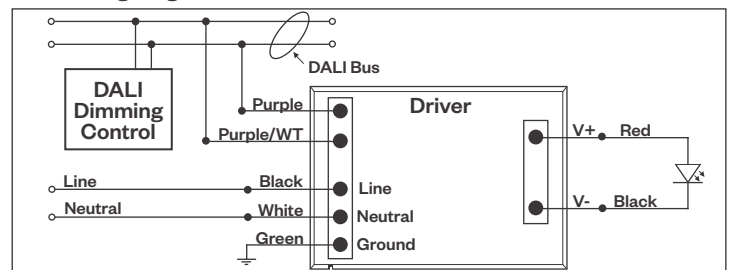
### DALI DIMMING

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)	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 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.