

# Rook® 250

2.5" Round Pendant, Direct Only



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, Integral Driver  
 Wattage: 6W, 8W, 10W, 12W, 14W, 16W, 18W, 20W  
 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)

## Certifications



## Fixture Summary

### Performance Data

Watts	Delivered Lumens	LPW	Color Temp	CRI	Watts	Delivered Lumens	LPW	Color Temp	CRI
6	643	107.2	3000K	80+	14	1395	99.6	3000K	80+
8	845	105.6	3000K	80+	16	1561	97.6	3000K	80+
10	1028	102.8	3000K	80+	18	1671	92.8	3000K	80+
12	1212	101	3000K	80+	20	1836	91.8	3000K	80+

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

### Electrical Data

	6W		8W		10W		12W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	6	0.05	8	0.07	10	0.08	12	0.1
277V	6	0.02	8	0.03	10	0.04	12	0.04
	14W		16W		18W		20W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	14	0.12	16	0.13	18	0.15	20	0.17
277	14	0.05	16	0.06	18	0.07	20	0.07

Electronic constant current LED driver

# Rook® 250

2.5" Round Pendant, Direct Only



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## Ordering Information

RK250RD

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<p><b>1 Model</b> RK250RD round direct, integral driver</p>	<p><b>2 Wattage</b> (lumens delivered @ 83 CRI/30K/55° beam)</p> <p><b>6</b> 6W (643 lm)  <b>8</b> 8W (845 lm)  <b>10</b> 10W (1028 lm)  <b>12</b> 12W (1212 lm)  <b>14</b> 14W (1395 lm)  <b>16</b> 16W (1561 lm)  <b>18</b> 18W (1671 lm)  <b>20</b> 20W (1836 lm)</p>	<p><b>3 Housing Finish</b></p> <p><b>MW</b> matte white  <b>MB</b> matte black  <b>SLV</b> matte silver          _____ custom RAL finish</p>											
<p><b>4 Mounting</b></p> <p><u>Junction Box</u>  <b>C</b> canopy, 120V-277V  <b>CDC</b> conduit canopy, 120V-277V  <b>RC</b> reduced canopy, 120V-277V  <u>Track</u> (for use with LE/TE driver only)  <b>TN1</b> Global GES/H-style, single circuit, 120V  <b>TEK</b> Global TEK, 2 circuit/2 neutral, 120V  <b>TN3</b> Global XTS, 3 circuit, 120V  <b>TN2</b> Global HTEK, 2 circuit/2 neutral, 277V  <b>CT</b> J-style, single and dual circuit, 120V  <b>LOL</b> L-style, single circuit, 120V</p>	<p><b>5 Suspension</b></p> <p><u>Cord</u> (nominal overall length, field adjustable)  <b>C4</b> cord, 4'  <b>C8</b> cord, 8'  <u>Stem</u> (junction box mounting only, nominal overall length, stems can be field cuttable)  <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  <u>Surface</u> (junction box mounting only)  <b>SM</b> surface mount</p>	<p><b>6 Mounting/Suspension Finish</b></p> <p><b>MW</b> matte white  <b>MB</b> matte black  <b>SLV</b> matte silver</p>											
<p><b>7 Voltage</b></p> <p><b>120</b> 120V  <b>277</b> 277V  <b>120-277</b> 120V-277V</p>	<p><b>8 Trim Finish</b></p> <p><b>MW</b> matte white  <b>MB</b> matte black  <b>SLV</b> matte silver          _____ custom RAL finish</p>	<p><b>9 Beam Spread</b></p> <p><b>30</b> 30°  <b>35</b> 35°  <b>55</b> 55°</p>	<p><b>10 Color Temp and CRI</b></p> <table border="1"> <tr> <td><b>80+ CRI</b></td> <td><b>90+ CRI</b></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>	<b>80+ CRI</b>	<b>90+ CRI</b>	<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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<p><b>11 Driver</b></p> <p><b>LE/TE</b> TRIAC/ELV dimming, 5% dim  <b>O-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)</p>	<p><b>12 Options/Accessories</b></p> <p><u>Glare Control</u> (can only take one)  <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.</p>												

# Rook<sup>®</sup> 250

2.5" Round Pendant, Direct Only



PROJECT:

TYPE:

## Specifications

### Application

Retail and commercial ambient/task lighting

### Construction

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

### Optical

Beam Spreads: 30°, 35°, 55°  
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: 6W, 8W, 10W, 12W, 14W, 16W, 18W, 20W  
Electronic constant current LED driver, 120V-277V input  
***This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Amerlux<sup>®</sup> 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*)  
*See pages 6-7 for more dimming information*

### Finish

Powder coat paint  
*Consult factory for custom finishes*

### Mounting

Junction Box: Canopy, conduit canopy or reduced canopy  
Track: Single circuit, 2 circuit or 3 circuit

### Suspension

Cord: 4 ft or 8 ft nominal lengths, field adjustable  
Stem: 4 ft or 8 ft nominal lengths, rigid or swivel, field cuttable  
Surface: Surface mount

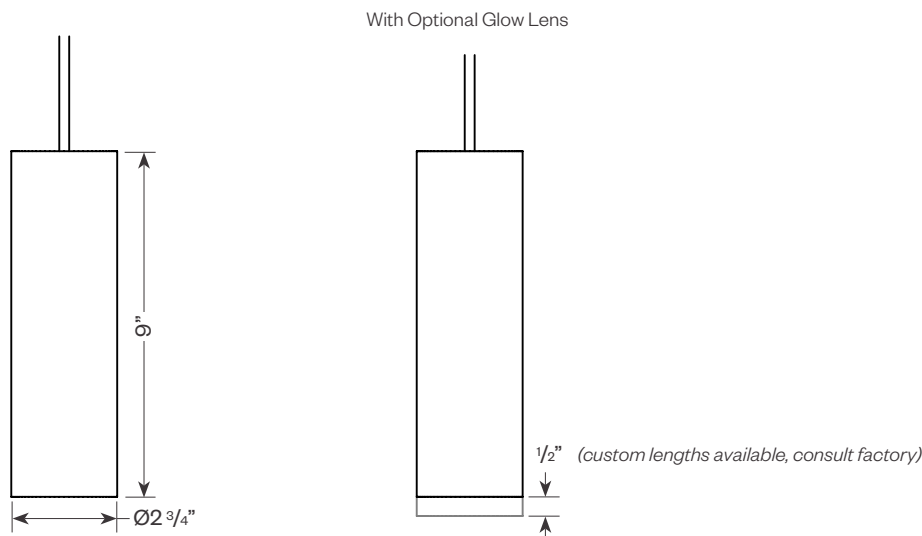
### Certifications

CSA tested to UL standards  
Indoor use only  
Damp location

### Warranty

5 year limited warranty

## Product Details



# Rook® 250

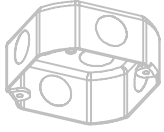
2.5" Round Pendant, Direct Only



PROJECT:

TYPE:

## Junction Box Mounting Requirements

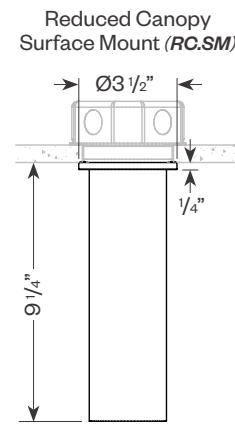
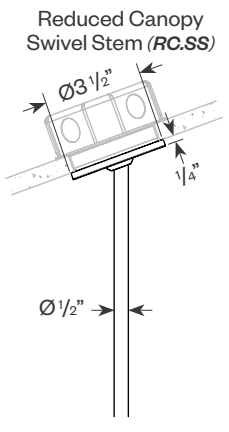
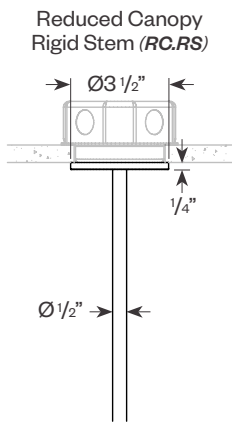
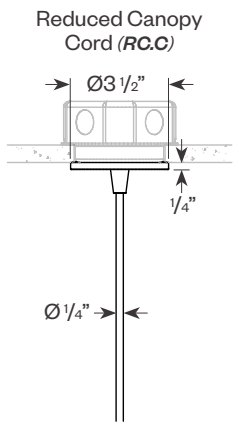
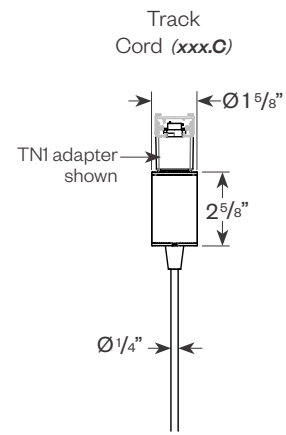
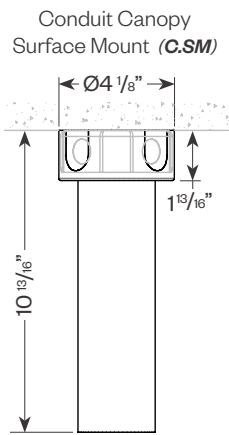
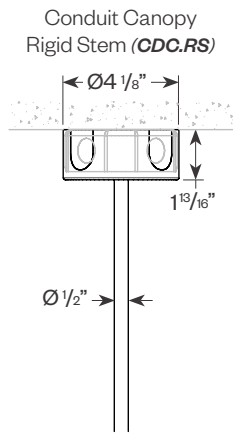
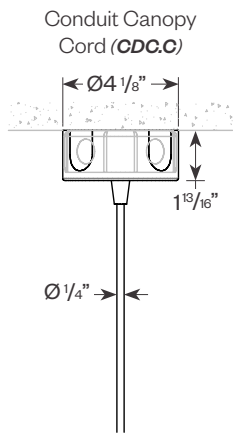
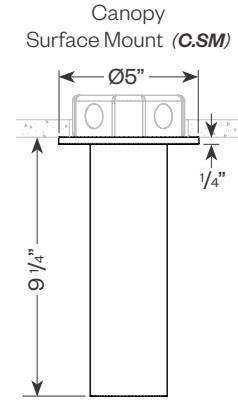
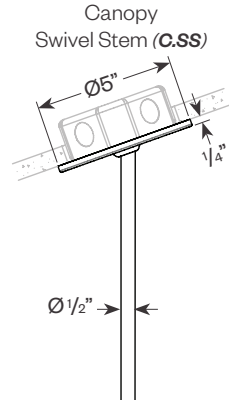
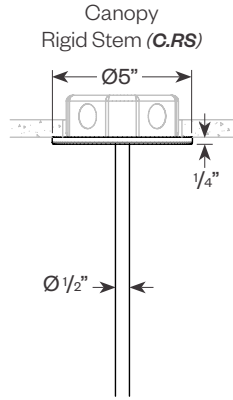
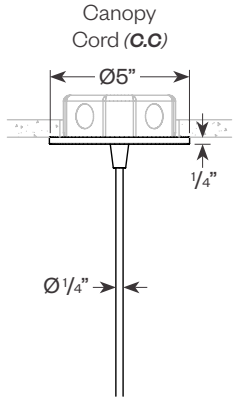


Canopy (C) & Conduit Canopy (CDC) Mounts Require 4" Octagonal Junction Box (by others)



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

## Mounting Options



# Rook® 250

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<b>PROJECT:</b>	<b>TYPE:</b>
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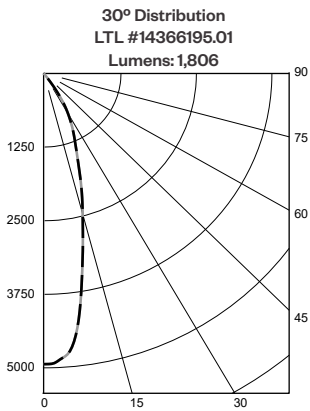
**Performance Data**

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

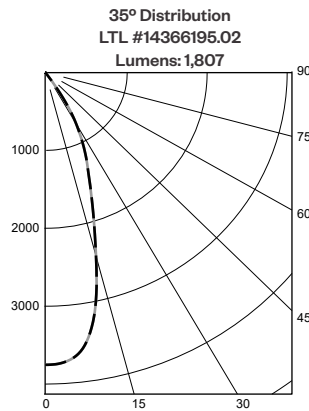
Wattage:	6W	8W	10W	12W	14W	16W	18W	20W
Factor:	0.35	0.46	0.56	0.66	0.76	0.85	0.91	1.0

CCT:	2700K, 80+	3000K, 80+	3500K, 80+	4000K, 80+	2700K, 90+	3000K, 90+	3500K, 90+	4000K, 90+
Factor:	0.96	1.0	1.02	1.04	0.80	0.83	0.87	0.90

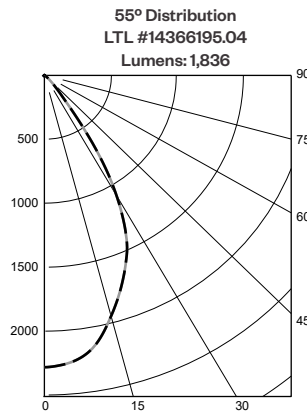
**20W, 3000K, 80+**



Candelas at Nadir	
Deg	Candela
0	4937
5	4735
15	2362
25	1110
35	299
45	21

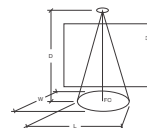


Candelas at Nadir	
Deg	Candela
0	3753
5	3695
15	2429
25	1196
35	318
45	24

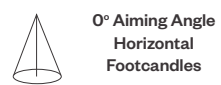


Candelas at Nadir	
Deg	Candela
0	2283
5	2253
15	1935
25	1451
35	527
45	77

**Application Data**



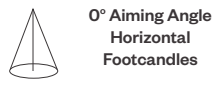
**Notes and Definitions:**  
 Beam spread is to 50% center beam candlepower (CBCP).  
**D**=Distance to floor or wall.  
**FC**=Footcandles on floor or wall at center beam aiming location.  
**L**=Effective Visual Beam length in feet (50% of maximum footcandle level).  
**W**=Effective Visual Beam width in feet (50% of maximum footcandle level).



**0° Aiming Angle  
Horizontal  
Footcandles**

**30° Distribution**

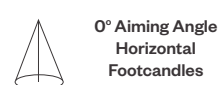
D	FC	L	W
5.0'	169	2.9	2.9
7.5'	83	3.8	3.8
10.0'	48	5.0	5.0
12.5'	31	6.1	6.1



**0° Aiming Angle  
Horizontal  
Footcandles**

**35° Distribution**

D	FC	L	W
5.0'	139	3.2	3.2
7.5'	65	4.8	4.8
10.0'	37	6.2	6.2
12.5'	24	7.6	7.6



**0° Aiming Angle  
Horizontal  
Footcandles**

**55° Distribution**

D	FC	L	W
5.0'	87	4.6	4.6
7.5'	40	6.6	6.6
10.0'	23	9.0	9.0
12.5'	15	11.4	11.4

# Rook® 250

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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 ---

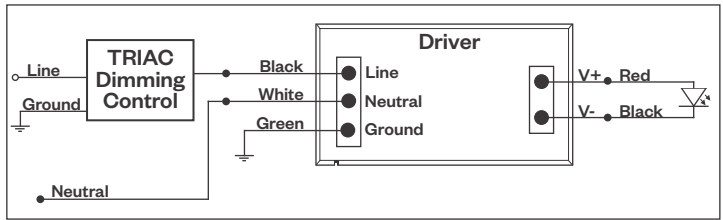
### TRIAC (Forward Phase) Dimming

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"	

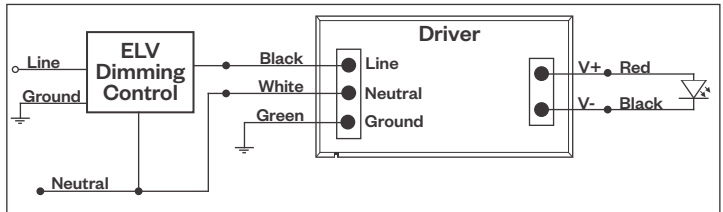
### ELV - Electronic Low Voltage (Reverse Phase) Dimming

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

2.5" Round Pendant, Direct Only



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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.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

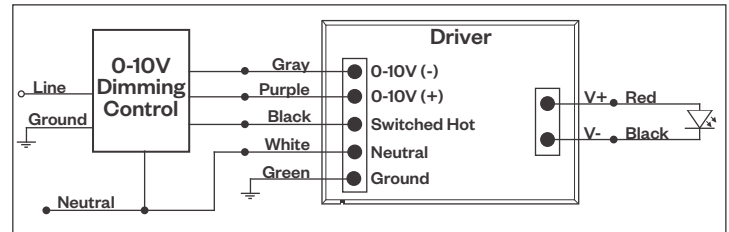
### 0-10V DIMMING

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	Lutron Grafik Eye with GRX-TVI Interface

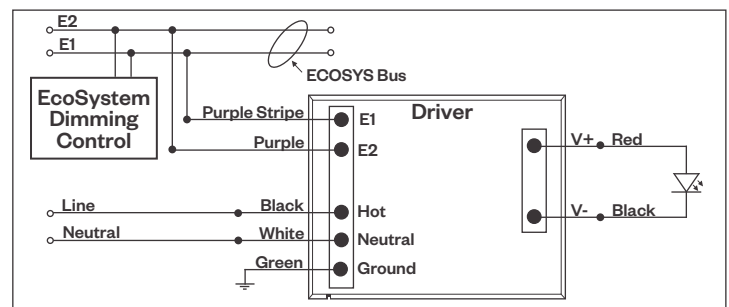
### LUTRON P-SERIES / ECOSYSTEM

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"	

**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.