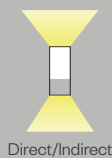


# Rook® 250

## 2.5" Round Pendant Direct/Indirect

Quick Reference: RK250RDI



### 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, Integral Driver
- Wattage: Direct 6W, 8W, 10W, 12W  
Indirect 10W
- Color Temp: 2700K, 3000K, 3500K, 4000K
- CRI: 80+ typ. or 90+ typ.
- Dimming: TRIAC & ELV (120V/277V) - 5% Dim  
0-10V (120V/277V) - 5% Dim

### PROJECT:

### TYPE:

### Performance Chart

Direct		Indirect		Total	Total	CCT	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+ IES files available on website

### Electrical Data

	16W		18W		20W		22W	
	Watts	Amps	Watts	Amps	Watts	Amps	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



# Rook® 250

2.5" Round Pendant, Direct/Indirect



## PROJECT:

## TYPE:

### Ordering Information



RK250RDI	.	10	.	.	.	.	.	.	.	105	.	.	.	.	.
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	

- |   |   |
|---|---|
| <p><b>1</b> <u>Model</u><br/> <b>RK250RDI</b>- round direct/indirect, integral driver(s)</p> <p><b>2</b> <u>Wattage - Direct</u><br/>         (lumens delivered @ 83 CRI/30K/55° beam)<br/> <b>6</b> - 6W (643 lm)<br/> <b>8</b> - 8W (845 lm)<br/> <b>10</b> - 10W (1028 lm)<br/> <b>12</b> - 12W (1212 lm)</p> <p><b>3</b> <u>Wattage - Indirect</u><br/>         (lumens delivered @ 80 CRI/30K/105° beam)<br/> <b>10</b> - 10W (544 lm)</p> <p><b>4</b> <u>Housing Finish</u><br/> <b>MW</b> - matte white<br/> <b>MB</b> - matte black<br/> <b>SLV</b> - matte silver<br/>         _____ - custom RAL finish</p> <p><b>5</b> <u>Mounting</u><br/>         Junction Box:<br/> <b>C</b> - canopy, 120V-277V<br/> <b>CDC</b> - conduit canopy, 120V-277V<br/> <b>RC</b> - reduced canopy, 120V-277V<br/><br/>         Track (for use with LE/TE driver only):<br/> <b>TN1</b> - Global GES/H-style, single circuit, 120V<br/> <b>TEK</b> - Global TEK, 2 circuit/2 neutral, 120V<br/> <b>TN3</b> - Global XTS, 3 circuit, 120V<br/> <b>TN2</b> - Global HTEK, 2 circuit/2 neutral, 277V<br/> <b>CT</b> - J-style, single and dual circuit, 120V<br/> <b>LOL</b> - L-style, single circuit, 120V</p> <p><b>6</b> <u>Suspension</u><br/>         Cord (nominal overall length, field adjustable):<br/> <b>C4</b> - cord, 4'<br/> <b>C8</b> - cord, 8'<br/><br/>         Stem (junction box mounting only, nominal overall length, stems can be field cuttable):<br/> <b>RS4</b> - rigid stem, 4'<br/> <b>RS8</b> - rigid stem, 8'<br/> <b>SS4*</b> - swivel stem, 4'<br/> <b>SS8*</b> - swivel stem, 8'<br/>         * C or RC mounting only</p> <p><b>7</b> <u>Mounting/Suspension Finish</u><br/> <b>MW</b> - matte white<br/> <b>MB</b> - matte black<br/> <b>SLV</b> - matte silver</p> <p><b>8</b> <u>Voltage</u><br/> <b>120</b> - 120V<br/> <b>277</b> - 277V<br/> <b>120-277</b> - 120-277V</p> | <p><b>9</b> <u>Trim Finish</u><br/> <b>MW</b> - matte white<br/> <b>MB</b> - matte black<br/> <b>SLV</b> - matte silver<br/>         _____ - custom RAL finish</p> <p><b>10</b> <u>Beam Spreads - Direct</u><br/> <b>30</b> - 30°<br/> <b>35</b> - 35°<br/> <b>55</b> - 55°</p> <p><b>11</b> <u>Beam Spreads - Indirect</u><br/> <b>105</b> - 105°</p> <p><b>12</b> <u>Color Temp and CRI - Direct</u><br/> <b>27</b> - 2700K, 80+<br/> <b>30</b> - 3000K, 80+<br/> <b>35</b> - 3500K, 80+<br/> <b>40</b> - 4000K, 80+<br/> <b>279</b> - 2700K, 90+<br/> <b>309</b> - 3000K, 90+<br/> <b>359</b> - 3500K, 90+<br/> <b>409</b> - 4000K, 90+</p> <p><b>13</b> <u>Color Temp and CRI - Indirect</u><br/> <b>27</b> - 2700K, 80+<br/> <b>30</b> - 3000K, 80+<br/> <b>35</b> - 3500K, 80+<br/> <b>40</b> - 4000K, 80+<br/> <b>279</b> - 2700K, 90+<br/> <b>309</b> - 3000K, 90+<br/> <b>359</b> - 3500K, 90+<br/> <b>409</b> - 4000K, 90+</p> <p><b>14</b> <u>Driver</u><br/> <b>LE/TE</b> - TRIAC/ELV dimming, 5% dim<br/> <b>0-10V</b> - 0-10V dimming; 5% dim</p> <p><b>15</b> <u>Options</u><br/>         Glare Control (can only take one):<br/> <b>SOL</b> - solite lens<br/> <b>HEX</b> - hexcell louver<br/><br/>         Decorative:<br/> <b>GDC*</b> - 1/2" glow lens, direct, clear<br/> <b>GDF*</b> - 1/2" glow lens, direct, frosted<br/> <b>GIC*</b> - 1/2" glow lens, indirect, clear<br/> <b>GIF*</b> - 1/2" glow lens, indirect, frosted<br/>         *Custom lengths available, consult factory<br/>         *Consult factory for availability</p> |
|---|---|

# Rook® 250

2.5" 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 Options: 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, 5% dim  
*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

#### Certifications

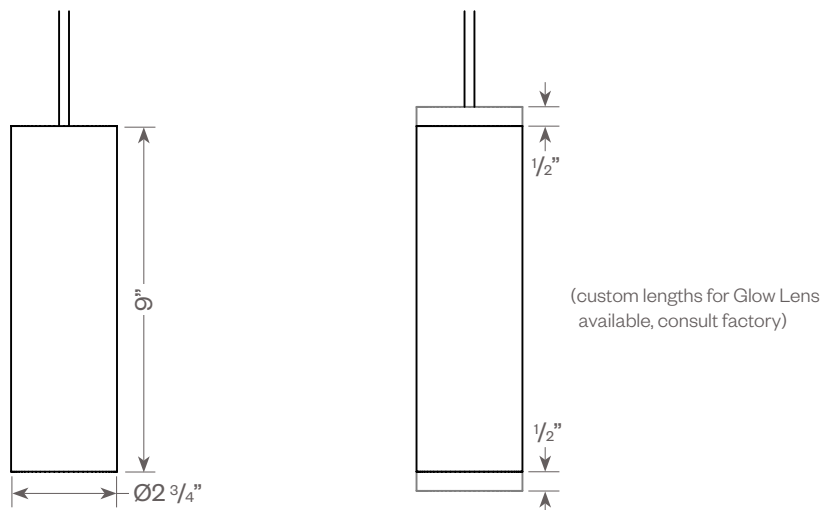
CSA tested to UL standards  
Indoor use only  
Damp location

#### Warranty

5 year limited warranty

## RK250RDI

With Optional Glow Lens



# Rook® 250

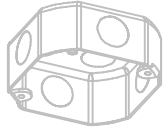
2.5" Round Pendant, Direct/Indirect



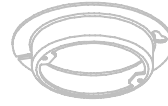
**PROJECT:**

**TYPE:**

## JUNCTION BOX MOUNTING REQUIREMENTS

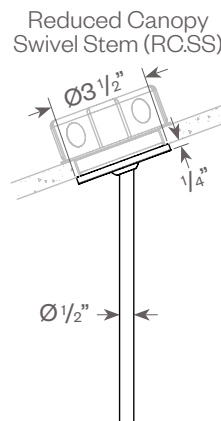
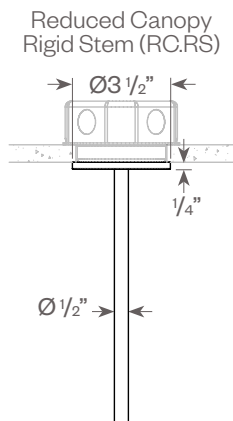
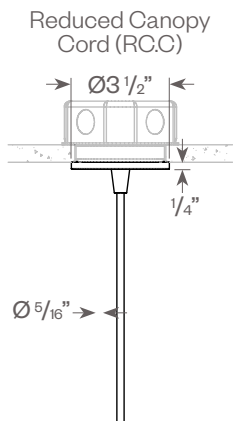
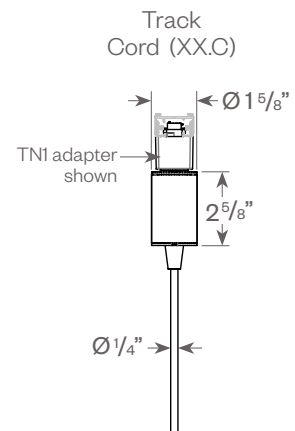
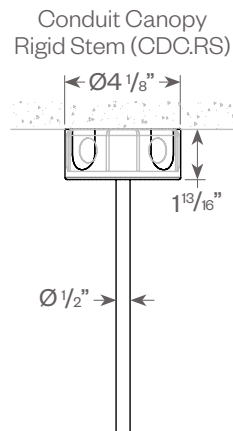
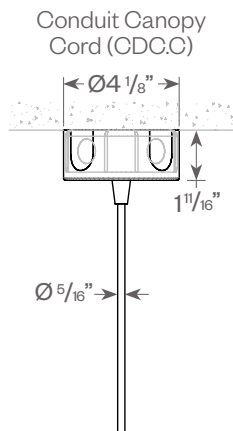
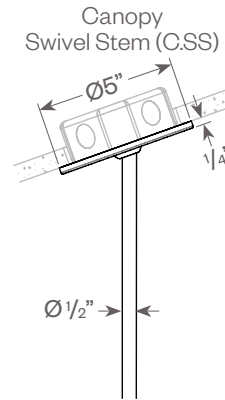
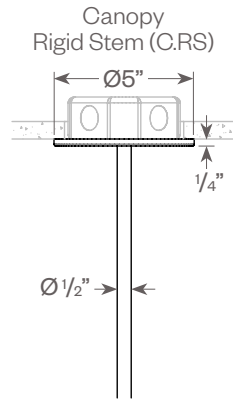
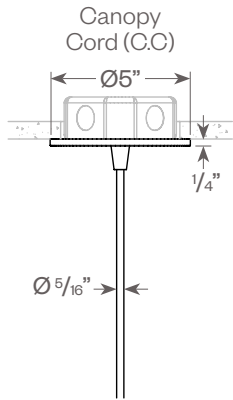


Canopy (C) & Conduit Canopy (CDC) Mounts Require 4" Octagonal Junction Box (by others)



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

## MOUNTING OPTIONS



# Rook<sup>®</sup> 250

2.5" Round Pendant, Direct/Indirect



## PROJECT:

## TYPE:

### FIXTURE DATA:

#### MULTIPLYING FACTORS FOR DIRECT PORTION:

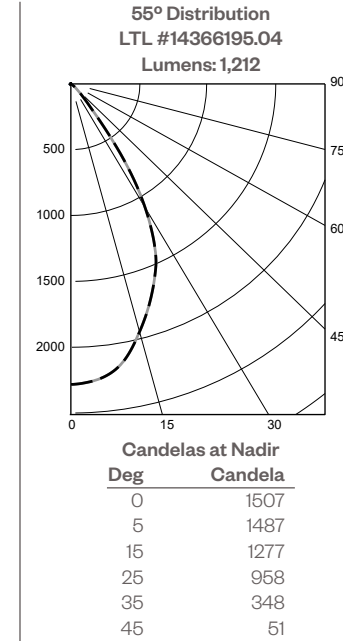
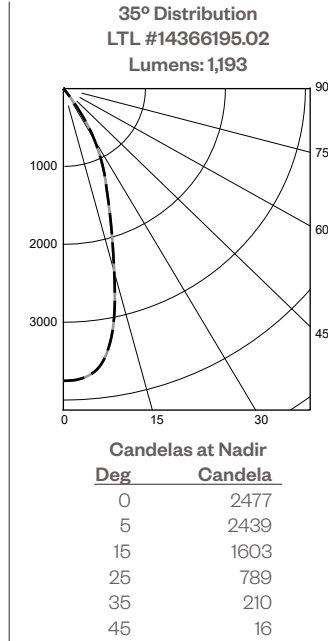
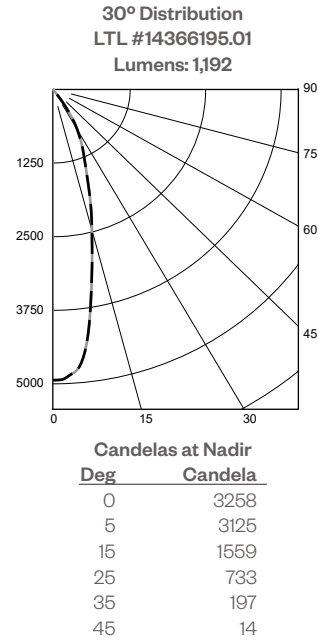
Wattage:	6W	8W	10W	12W	20W*
Factor:	0.35	0.46	0.56	0.66	1.0

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

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

Multiplying Factor is based on 3000K, 80+ 120V IES file on website.

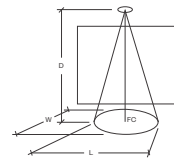
### 12W LED, 3000K, 80+, Direct



### 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

**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

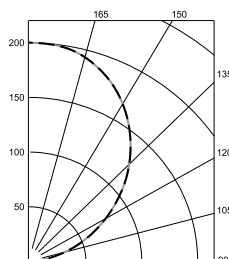
0° Aiming Angle  
Horizontal  
Footcandles

**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

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

**105° Distribution**  
LTL #14271976.09



#### 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

# Rook® 250

2.5" Round Pendant, Direct/Indirect



## PROJECT:

## TYPE:

### 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 ---**

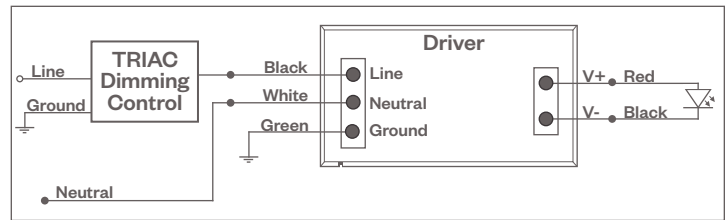
### TRIAC (Forward Phase) DIMMING (Standard)

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)

Lutron "Diva"  
Lutron "Nova-T"  
Lutron "Maestro"  
Lutron "Skylark"

##### Central System

Lutron "GP" Panel  
Lutron Grafik Eye QS

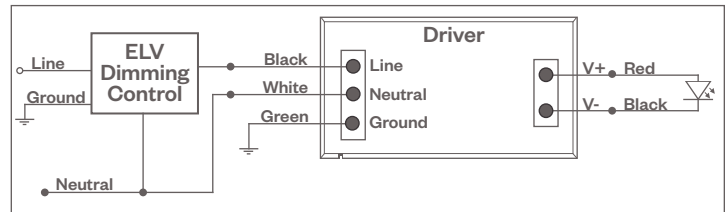
### ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

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)

Lutron "Diva"  
Lutron "Nova-T"  
Lutron "Maestro"  
Lutron "Skylark"  
Leviton "Surslide"  
Leviton "Vizio"

##### Wall Box (ELV 277VAC)

Leviton Revoir II AWSMT-E

##### Central System

Lutron "GP" Panel with PHPM-PA 120/277VAC  
Lutron Grafik Eye QS with PHPM-PA 120/277VAC

#### 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.

# Rook® 250

2.5" Round Pendant, Direct/Indirect



## PROJECT:

## TYPE:

### 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 ---**

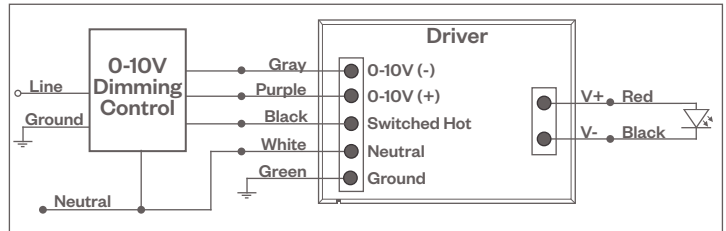
### 0-10V DIMMING

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-TVI Interface

### 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.