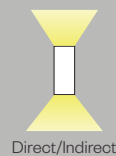


Rook® 250

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

- | | |
|---|---|
| <p>1 <u>Model</u>
 RK250RDI- round direct/indirect, integral driver(s)</p> <p>2 <u>Wattage - Direct</u>
 (lumens delivered @ 83 CRI/30K/55° beam)
 6 - 6W (643 lm)
 8 - 8W (845 lm)
 10 - 10W (1028 lm)
 12 - 12W (1212 lm)</p> <p>3 <u>Wattage - Indirect</u>
 (lumens delivered @ 80 CRI/30K/105° beam)
 10 - 10W (544 lm)</p> <p>4 <u>Housing Finish</u>
 MW - matte white
 MB - matte black
 SLV - matte silver
 _____ - custom RAL finish</p> <p>5 <u>Mounting</u>
 Junction Box:
 C - canopy, 120V-277V
 CDC - conduit canopy, 120V-277V
 RC - reduced canopy, 120V-277V

 Track (for use with LE/TE driver only):
 TN1 - Global GES/H-style, single circuit, 120V
 TEK - Global TEK, 2 circuit/2 neutral, 120V
 TN3 - Global XTS, 3 circuit, 120V
 TN2 - Global HTEK, 2 circuit/2 neutral, 277V
 CT - J-style, single and dual circuit, 120V
 LOL - L-style, single circuit, 120V</p> <p>6 <u>Suspension</u>
 Cord (nominal overall length, field adjustable):
 C4 - cord, 4'
 C8 - cord, 8'

 Stem (junction box mounting only, nominal overall length, stems can be field cuttable):
 RS4 - rigid stem, 4'
 RS8 - rigid stem, 8'
 SS4* - swivel stem, 4'
 SS8* - swivel stem, 8'
 * C or RC mounting only</p> <p>7 <u>Mounting/Suspension Finish</u>
 MW - matte white
 MB - matte black
 SLV - matte silver</p> <p>8 <u>Voltage</u>
 120 - 120V
 277 - 277V
 120-277 - 120-277V</p> | <p>9 <u>Trim Finish</u>
 MW - matte white
 MB - matte black
 SLV - matte silver
 _____ - custom RAL finish</p> <p>10 <u>Beam Spreads - Direct</u>
 30 - 30°
 35 - 35°
 55 - 55°</p> <p>11 <u>Beam Spreads - Indirect</u>
 105 - 105°</p> <p>12 <u>Color Temp and CRI - Direct</u>
 27 - 2700K, 80+
 30 - 3000K, 80+
 35 - 3500K, 80+
 40 - 4000K, 80+
 279 - 2700K, 90+
 309 - 3000K, 90+
 359 - 3500K, 90+
 409 - 4000K, 90+</p> <p>13 <u>Color Temp and CRI - Indirect</u>
 27 - 2700K, 80+
 30 - 3000K, 80+
 35 - 3500K, 80+
 40 - 4000K, 80+
 279 - 2700K, 90+
 309 - 3000K, 90+
 359 - 3500K, 90+
 409 - 4000K, 90+</p> <p>14 <u>Driver</u>
 LE/TE - TRIAC/ELV dimming, 5% dim
 0-10V - 0-10V dimming; 5% dim</p> <p>15 <u>Options</u>
 Glare Control (can only take one):
 SOL - solite lens
 HEX - hexcell louver

 Decorative:
 GDC* - 1/2" glow lens, direct, clear
 GDF* - 1/2" glow lens, direct, frosted
 GIC* - 1/2" glow lens, indirect, clear
 GIF* - 1/2" glow lens, indirect, frosted
 *Custom lengths available, consult factory
 *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

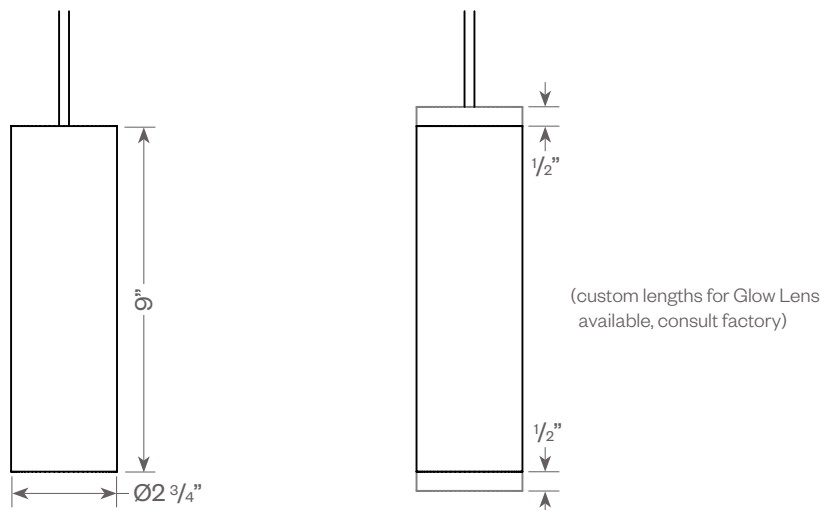
CSA tested to UL standards
Indoor use only
Damp location

Warranty

5 year limited warranty

RK250RDI

With Optional Glow Lens



Rook® 250

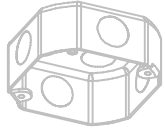
2.5" Round Pendant, Direct/Indirect



PROJECT:

TYPE:

JUNCTION BOX MOUNTING REQUIREMENTS

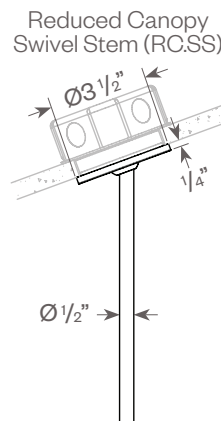
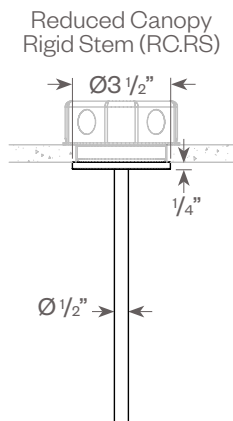
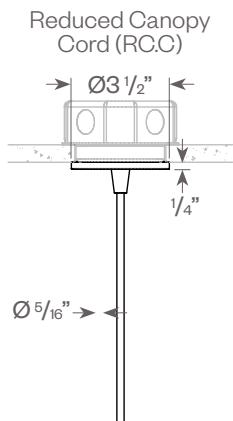
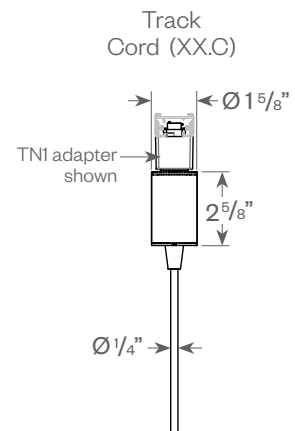
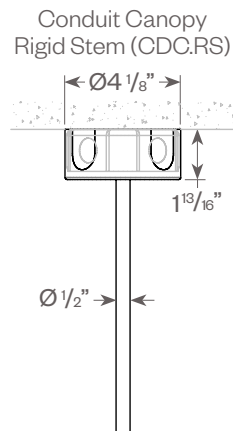
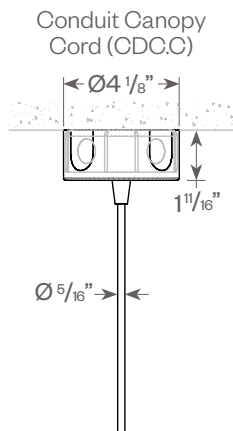
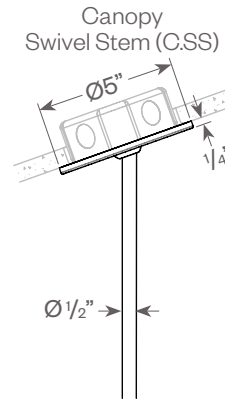
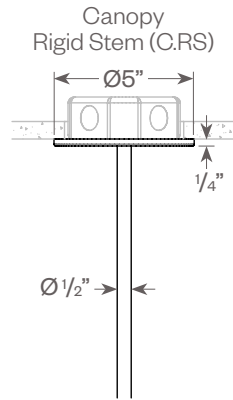
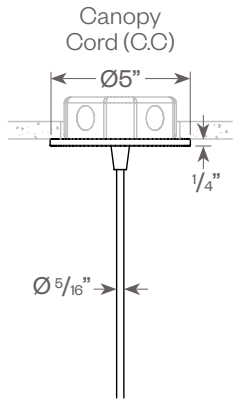


Canopy (C) & Conduit Canopy (CDC) Mounts Require 4" Octagonal Junction Box (by others)



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

MOUNTING OPTIONS



Rook® 250

2.5" Round Pendant, Direct/Indirect



PROJECT:

TYPE:

FIXTURE DATA:

MULTIPLYING FACTORS FOR DIRECT PORTION:

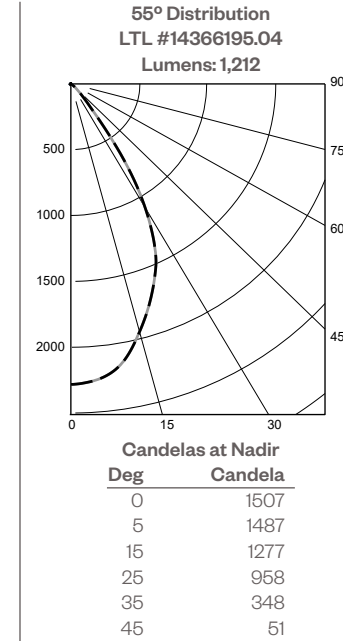
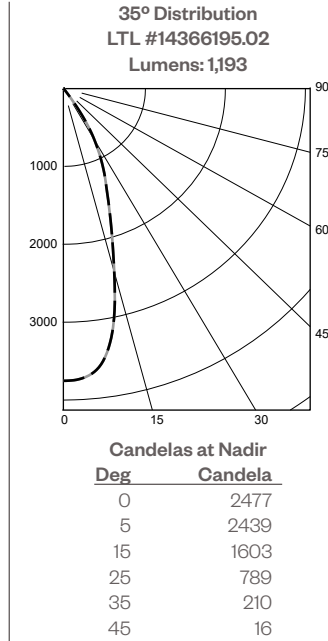
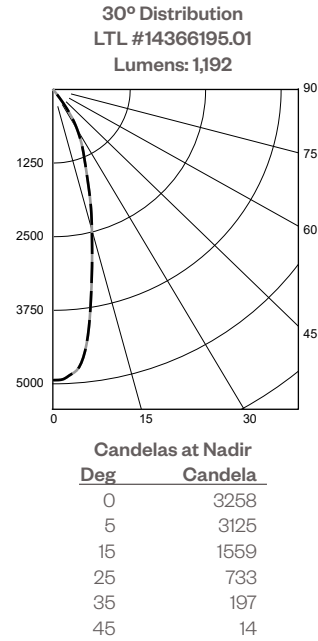
Wattage:	6W	8W	10W	12W	20W*
Factor:	0.35	0.46	0.56	0.66	1.0

* 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.

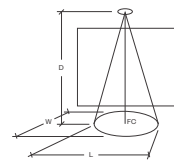
12W LED, 3000K, 80+, Direct



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

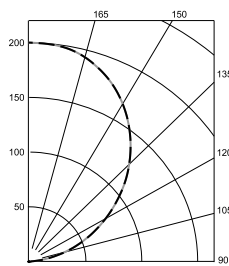
0° Aiming Angle
Horizontal
Footcandles

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 ---

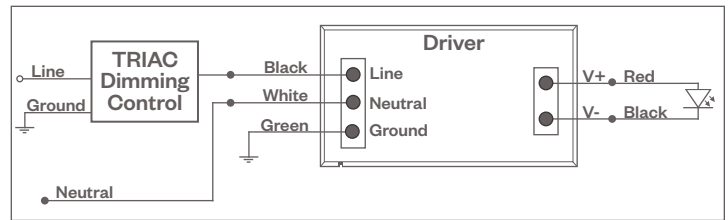
TRIAC (Forward Phase) DIMMING (Standard)

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

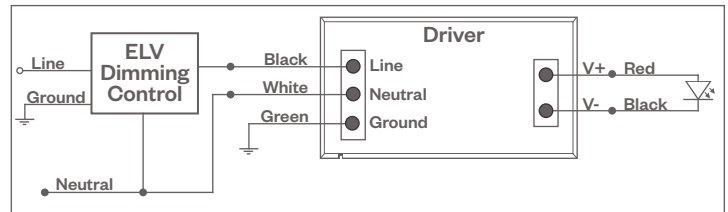
ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

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 ---

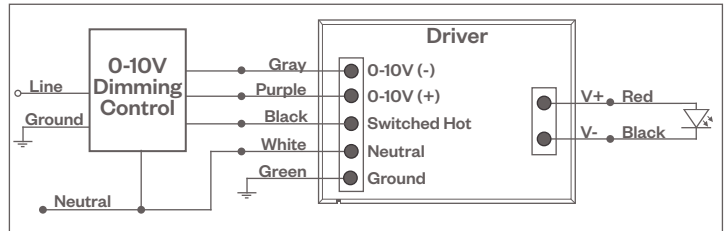
0-10V DIMMING

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.