

Rook® 250

2.5" Round Pendant Direct Only

Quick Reference: RK250RD



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 (120V/277V) - 5% Dim
 0-10V (120V/277V) - 1% Dim
 Lutron Hi-lume EcoSystem Premier 0.1% dim with soft on & fade to black, 120/277VAC (consult factory for availability)

PROJECT:

TYPE:

Performance Data

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

Data is based on 3000K, 80+ IES files available on website

Electrical Data

	6W		8W		10W		12W	
	Watts	Amps	Watts	Amps	Watts	Amps	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	
	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps
120V	14	0.12	16	0.13	18	0.15	20	0.17
277V	14	0.05	16	0.06	18	0.07	20	0.07

Electronic constant current LED driver



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PROJECT:

TYPE:

Ordering Information



RK250RD

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Model

RK250RD - round direct, integral driver

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Wattage (lumens delivered @ 83 CRI/30K/55° beam)

6 - 6W (643 lm)

8 - 8W (845 lm)

10 - 10W (1028 lm)

12 - 12W (1212 lm)

14 - 14W (1395 lm)

16 - 16W (1561 lm)

18 - 18W (1671 lm)

20 - 20W (1836 lm)

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Housing Finish

MW - matte white

MB - matte black

SLV - matte silver

_____ - custom RAL finish

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Mounting

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

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Suspension

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

Surface (junction box mounting only):

SM - surface mount

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Mounting/Suspension Finish

MW - matte white

MB - matte black

SLV - matte silver

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Voltage

120 - 120V

277 - 277V

120-277 - 120-277V

8

Trim Finish

MW - matte white

MB - matte black

SLV - matte silver

_____ - custom RAL finish

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Beam Spreads

30 - 30°

35 - 35°

55 - 55°

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Color Temp and CRI

27 - 2700K, 80+

30 - 3000K, 80+

35 - 3500K, 80+

40 - 4000K, 80+

279 - 2700K, 90+

309 - 3000K, 90+

359 - 3500K, 90+

409 - 4000K, 90+

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Driver

LE/TE - TRIAC/ELV dimming, 5% dim

0-10V - 0-10V dimming; 1% dim

HILUME-P-ECO - Lutron Hi-lume EcoSystem Premier 0.1% dim with soft on & fade to black, 120/277VAC (consult factory for availability)

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Options

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

*Custom lengths available, consult factory

*Consult factory for availability

Rook[®] 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[®] 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

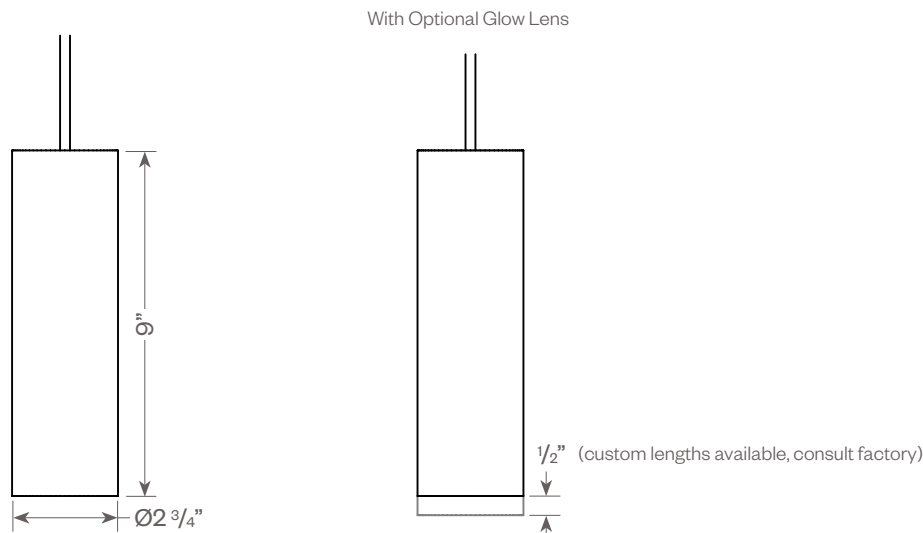
Certifications

CSA tested to UL standards
Indoor use only
Damp location

Warranty

5 year limited warranty

RK250RD



Rook® 250

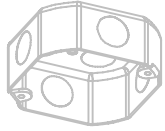
2.5" Round Pendant, Direct Only



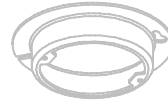
PROJECT:

TYPE:

JUNCTION BOX MOUNTING REQUIREMENTS

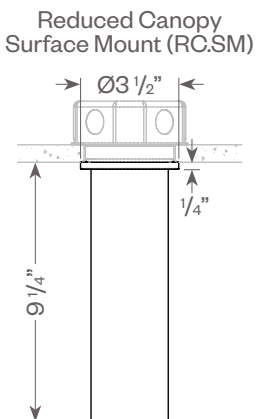
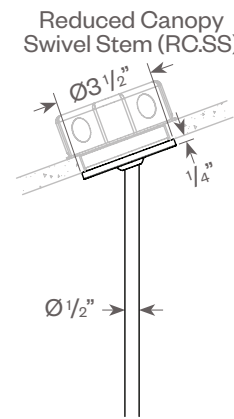
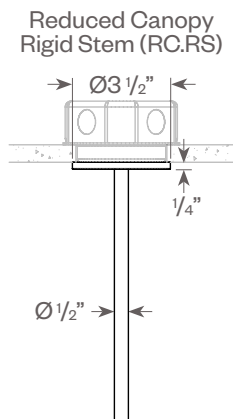
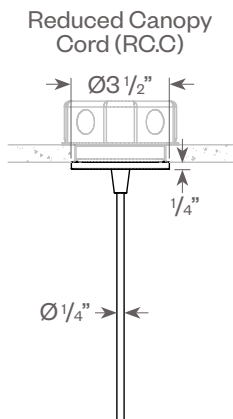
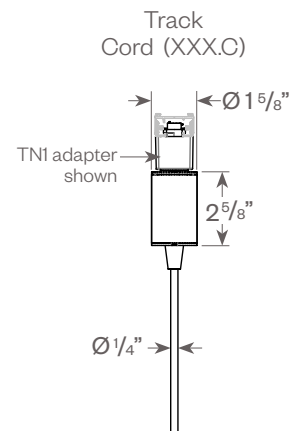
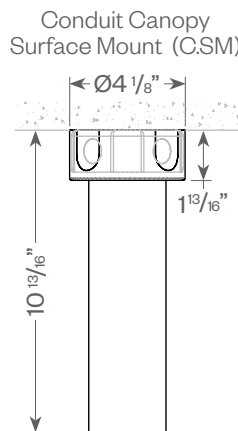
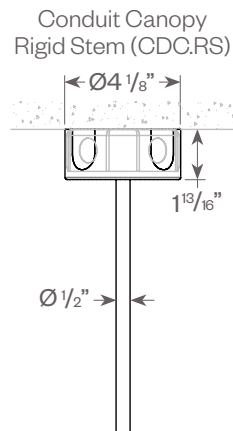
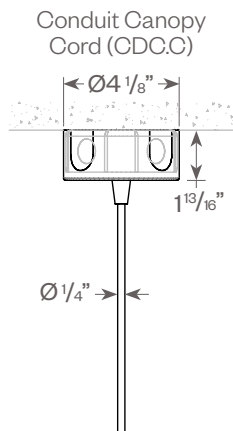
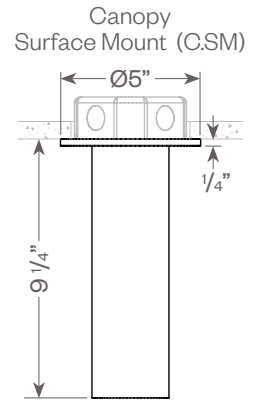
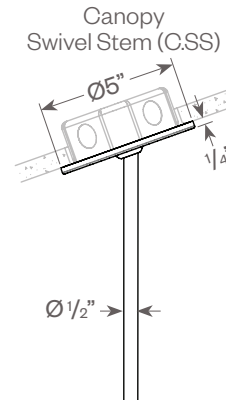
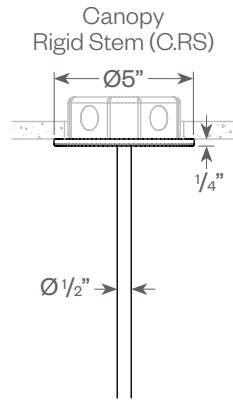
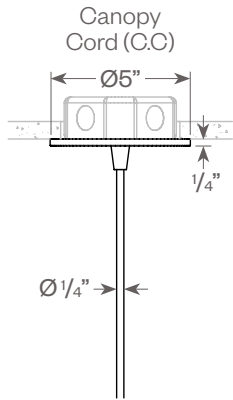


Canopy (C) & Conduit Canopy (CDC) Mounts Require 4" Octagonal Junction Box (by others)



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

MOUNTING OPTIONS



Rook[®] 250

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PROJECT:

TYPE:

FIXTURE DATA:

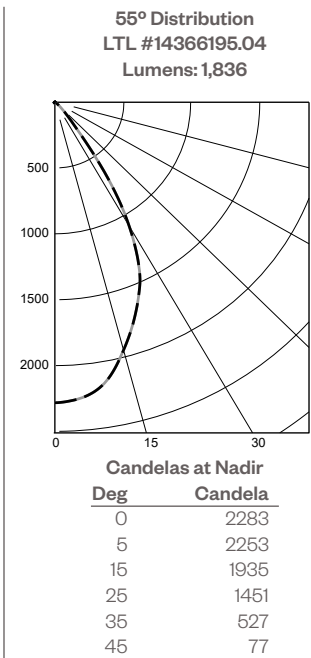
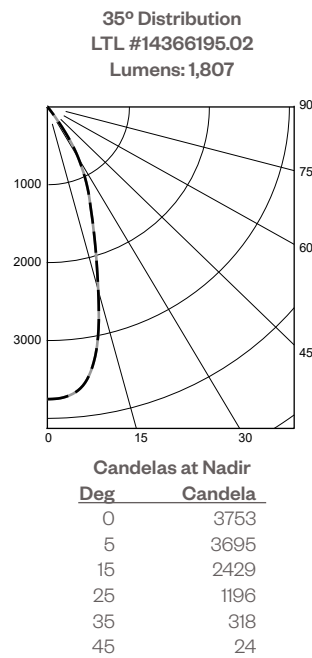
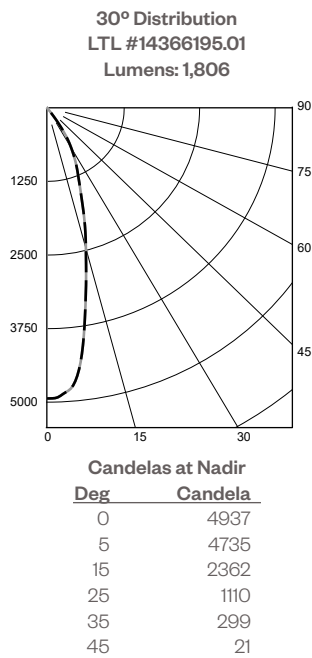
MULTIPLYING FACTORS:

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

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

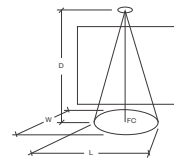
20W LED, 3000K, 80+



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'	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

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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 ---

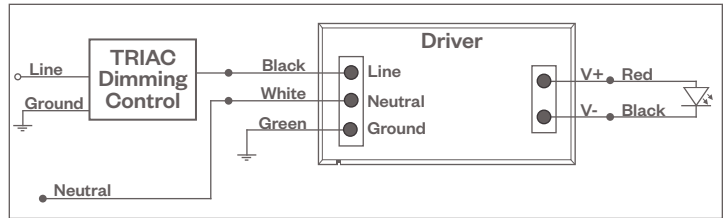
TRIAC (Forward Phase) DIMMING (Standard)

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)	Central System
Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Skylark"	

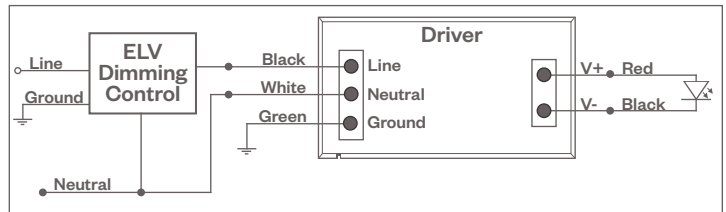
ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

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)	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 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.

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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.

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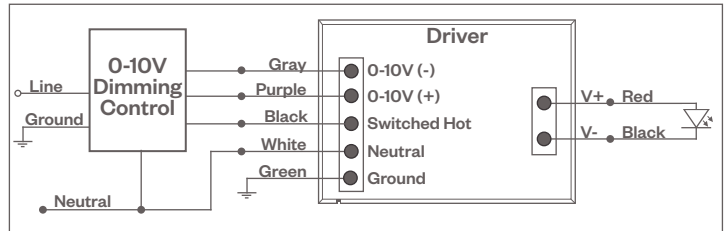
0-10V DIMMING

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

Lutron "Diva" - DVSTV | Leviton Renoir II 0-10V

Central System

Lutron Grafik Eye with GRX-TV1 Interface

LUTRON P-SERIES / ECOSYSTEM

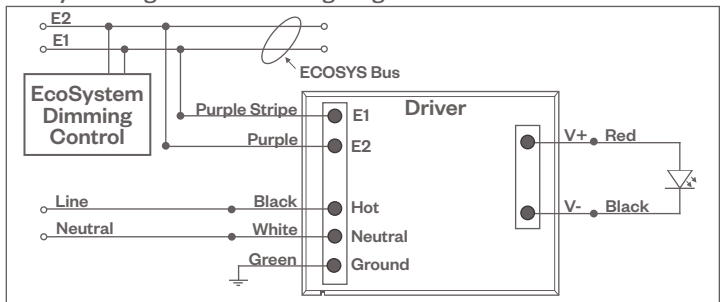
Integrates into Lutron EcoSystem building management

Notes:

- 120-277VAC*
- Dims down to 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

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

Central System

Lutron EcoSystem compatible controls

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.