

# Rook® 250 Mini

2.5" Mini Round Pendant,  
Direct Only

Quick Reference: RK250MRD



## Features

The Rook 250 Mini translates the award-winning comfort, control and performance of our downlight families into a beautiful, slender solution ideal for open-ceiling applications where downlight performance is required in a more strikingly decorative manner. Just under 4½ inches in height, this small and aesthetically clean round pendant maximizes a 2.5" aperture and several performance outputs and finishes to generate focused direct or direct/indirect lighting that stirs drama and grabs attention.

## Product Overview

Type: Round Pendant, Direct, Remote and Integral Driver  
 Wattage: 6W, 8W, 10W, 12W, 14W, 16W, 18W  
 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 (consult factory for availability)  
 DALI - DALI dimming, 1% dim  
 PoE - power over ethernet, consult factory



**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+

*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			
	Watts	Amps	Watts	Amps	Watts	Amps		
120V	14	0.12	16	0.13	18	0.15		
277V	14	0.05	16	0.06	18	0.07		

*Electronic constant current LED driver*



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## PROJECT:

## TYPE:

### Ordering Information



<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>
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**1** Model  
**RK250MRD** - mini round direct, remote driver

**2** 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)

**3** Housing Finish  
**MW** - matte white  
**MB** - matte black  
**SLV** - matte silver  
\_\_\_\_\_ - custom RAL finish

**4** Mounting  
Driver in Canopy:  
**PC**- power canopy  
**PCDC** - power conduit canopy  
  
Driver in Remote Box:  
**C**- canopy  
**CDC** - conduit canopy  
**RC** - reduced canopy

**5** Suspension  
Cord (nominal overall length, field adjustable):  
**C4** - cord, 4'  
**C8** - cord, 8'

Stem (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:  
**SM** - surface mount

**6** Mounting/Suspension Finish  
**MW** - matte white  
**MB** - matte black  
**SLV** - matte silver

**7** Voltage  
**120-277** - 120-277V

**8** Trim Finish  
**MW** - matte white  
**MB** - matte black  
**SLV** - matte silver  
\_\_\_\_\_ - custom RAL finish

**9** Beam Spreads  
**30** - 30°  
**35** - 35°  
**55** - 55°

**10** 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+

**11** 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 (consult factory for availability)  
**DALI\*** - DALI dimming, 1% dim  
**POE** - PoE consult factory

\* Only available in Remote Box Mounting options

**12** 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 Mini

2.5" Mini 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  
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 (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  
Surface:  
Surface mount

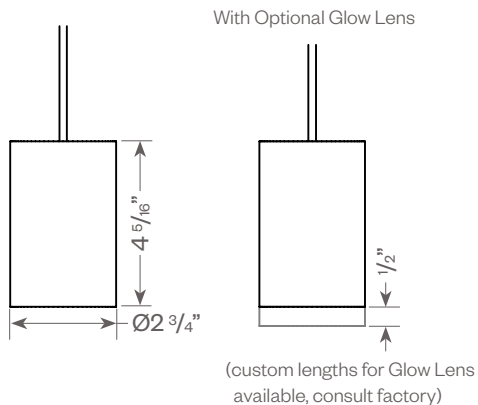
#### Certifications

CSA tested to UL standards  
Indoor use only  
Damp location

#### Warranty

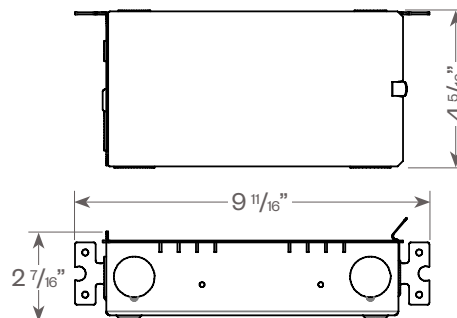
5 year limited warranty

## RK250MRD



## 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

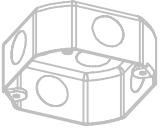
2.5" Mini Round Pendant, Direct Only



**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

<p>Power Canopy Cord (P.C.C)</p>	<p>Power Canopy Rigid Stem (P.C.RS)</p>	<p>Power Canopy Surface Mount (P.C.SM)</p>	
<p>Power Conduit Canopy Cord (P.C.D.C.C)</p>	<p>Power Conduit Canopy Rigid Stem (P.C.D.C.RS)</p>	<p>Power Conduit Canopy Surface Mount (P.C.D.C.SM)</p>	
<p>Canopy Cord (C.C)</p>	<p>Canopy Rigid Stem (C.RS)</p>	<p>Canopy Swivel Stem (C.SS)</p>	<p>Canopy Surface Mount (C.SM)</p>
<p>Conduit Canopy Cord (C.D.C.C)</p>	<p>Conduit Canopy Rigid Stem (C.D.C.RS)</p>	<p>Conduit Canopy Surface Mount (C.D.C.SM)</p>	
<p>Reduced Canopy Cord (R.C.C)</p>	<p>Reduced Canopy Rigid Stem (R.C.RS)</p>	<p>Reduced Canopy Swivel Stem (R.C.SS)</p>	<p>Reduced Canopy Surface Mount (R.C.SM)</p>

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## PROJECT:

## TYPE:

### FIXTURE DATA:

#### MULTIPLYING FACTORS:

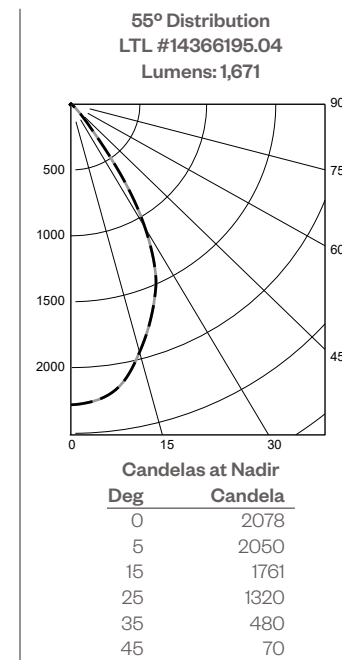
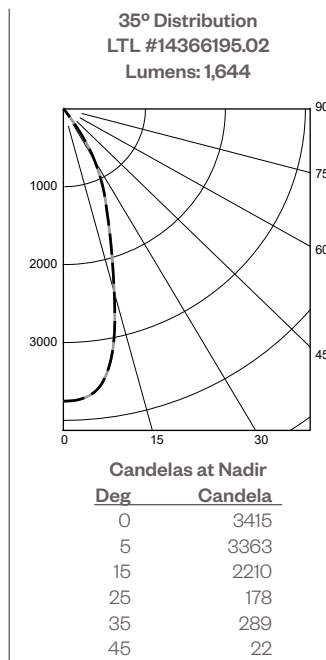
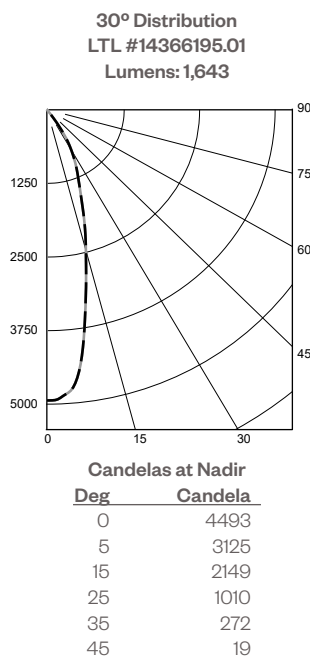
Wattage:	6W	8W	10W	12W	14W	16W	18W	20W*
Factor:	0.35	0.46	0.56	0.66	0.76	0.85	0.91	1.0

\* 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.

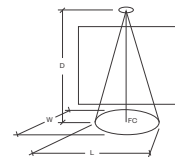
### 18W LED, 3000K, 80+



### 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'	154	2.9	2.9
7.5'	76	3.8	3.8
10.0'	44	5.0	5.0
12.5'	28	6.1	6.1

**0° Aiming Angle Horizontal Footcandles**

**35° Distribution**

D	FC	L	W
5.0'	127	3.2	3.2
7.5'	59	4.8	4.8
10.0'	34	6.2	6.2
12.5'	22	7.6	7.6

**0° Aiming Angle Horizontal Footcandles**

**55° Distribution**

D	FC	L	W
5.0'	79	4.6	4.6
7.5'	36	6.6	6.6
10.0'	21	9.0	9.0
12.5'	14	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 ---**

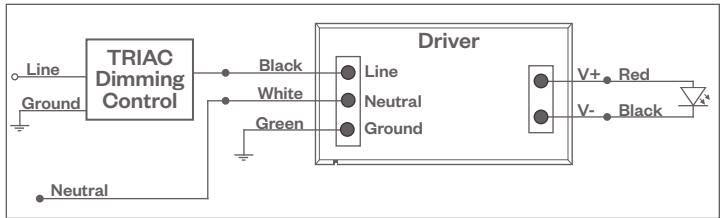
### TRIAC (Forward Phase) DIMMING (Standard)

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"	

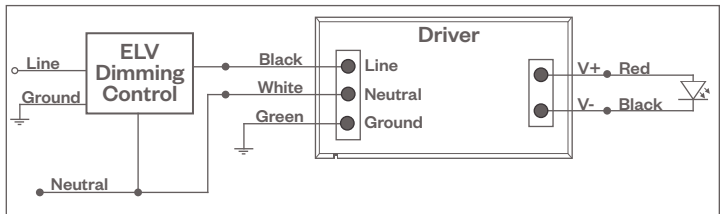
### ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

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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### 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 ---**

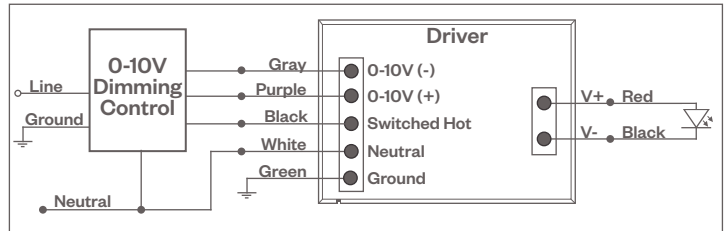
### 0-10V DIMMING

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-TV1 Interface

### LUTRON P-SERIES / ECOSYSTEM

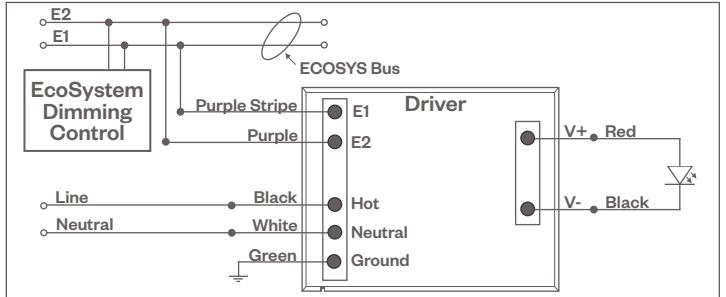
Integrates into Lutron EcoSystem building management

#### 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\*:

##### Lutron ECO System

Pow Pak Dimming Modules  
Energi Savr Node  
Grafik Eye QS/Homeworks  
QS Control Unit  
Quantum Hub  
Homeworks QS/My Room

##### Central System

Lutron EcoSystem compatible controls

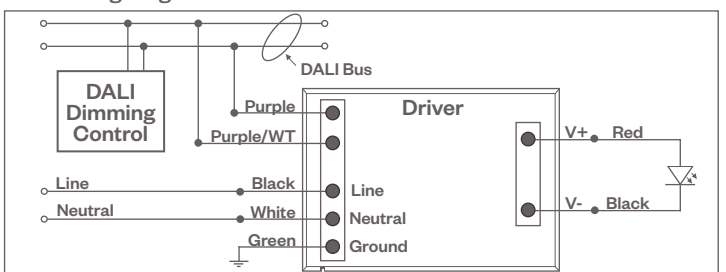
### DALI DIMMING

Digital control protocol allows individual fixture control

#### Notes:

- 120-277VAC\*
- Dims down to 1% light output in most cases

### DALI Wiring Diagram



#### Compatible Dimmers\*:

##### Wall Box (3-Wire Fluorescent)

Leviton CD250 Controller

##### Central System

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 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.