

Rook® 250 Mini

2.5" Mini Round Pendant,
Direct/Indirect

Quick Reference: RK250MRDI



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/Indirect, Remote and 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) - 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 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

Electronic constant current LED driver



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PROJECT:

TYPE:

Ordering Information



RK250MRDI	10	105												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

- 1** Model
RK250MRDI- mini round direct/indirect, remote driver(s)
- 2** Wattage - Direct
(lumens delivered @ 83 CRI/30K/55° beam)
6 - 6W (643 lm)
8 - 8W (845 lm)
10 - 10W (1028 lm)
12 - 12W (1212 lm)
- 3** Wattage - Indirect
(lumens delivered @ 80 CRI/30K/105° beam)
10 - 10W (544 lm)
- 4** Housing Finish
MW - matte white
MB - matte black
SLV - matte silver
_____ - custom RAL finish
- 5** Mounting
Driver in Canopy:
PC- power canopy
PCDC - power conduit canopy

Driver in Remote Box:
C- canopy
CDC - conduit canopy
RC - reduced canopy
- 6** 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
- 7** Mounting/Suspension Finish
MW - matte white
MB - matte black
SLV - matte silver
- 8** Voltage
120-277 - 120-277V
- 9** Trim Finish
MW - matte white
MB - matte black
SLV - matte silver
_____ - custom RAL finish
- 10** Beam Spreads - Direct
30 - 30°
35 - 35°
55 - 55°
- 11** Beam Spreads - Indirect
105 - 105°
- 12** Color Temp and CRI - Direct
27 - 2700K, 80+
30 - 3000K, 80+
35 - 3500K, 80+
40 - 4000K, 80+
279 - 2700K, 90+
309 - 3000K, 90+
359 - 3500K, 90+
409 - 4000K, 90+
- 13** Color Temp and CRI - Indirect
27 - 2700K, 80+
30 - 3000K, 80+
35 - 3500K, 80+
40 - 4000K, 80+
279 - 2700K, 90+
309 - 3000K, 90+
359 - 3500K, 90+
409 - 4000K, 90+
- 14** 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**
- 15** 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
GIC* - 1/2" glow lens, indirect, clear
GIF* - 1/2" glow lens, indirect, frosted
*Custom lengths available, consult factory
*Consult factory for availability

Rook® 250 Mini

2.5" Mini 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, 1% dim
Lutron Hi-lume EcoSystem Premier 0.1% dim with soft on & fade to black, 120/277VAC (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

Drivers in Canopy:
Power canopy or power conduit canopy
Drivers in Remote Box:
Canopy, conduit canopy or reduced canopy

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:

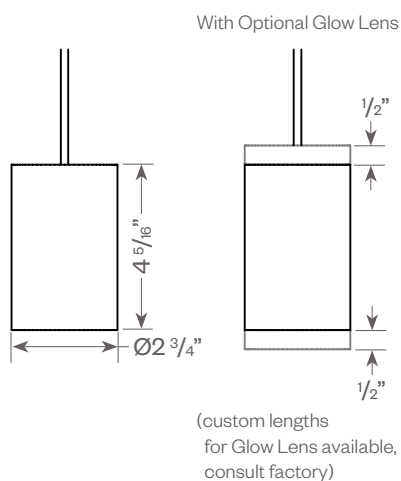
Certifications

CSA tested to UL standards
Indoor use only
Damp location

Warranty

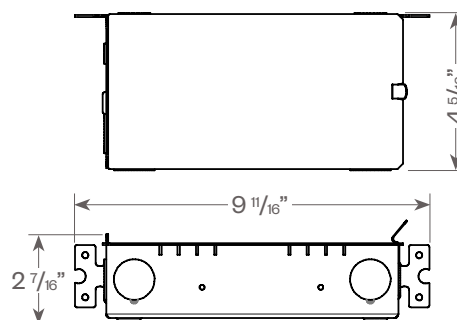
5 year limited warranty

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

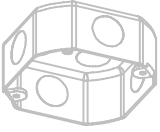
2.5" Mini Round Pendant, Direct/Indirect



PROJECT:

TYPE:

JUNCTION BOX MOUNTING REQUIREMENTS



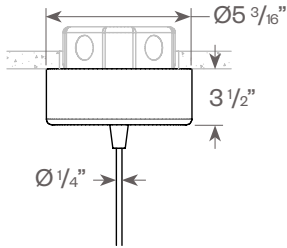
Canopy (C) & Conduit Canopy (CDC) Mounts Require 4" Octagonal Junction Box (by others)



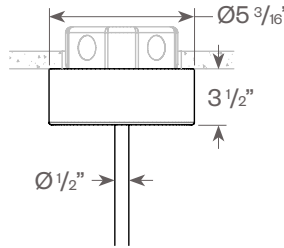
Reduced Canopy (RC) Mounts also Require Raised Cover (by others) for 4" Octagonal Junction Box

MOUNTING OPTIONS

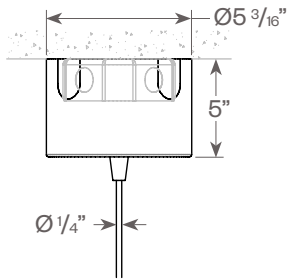
Power Canopy Cord (P.C.C)



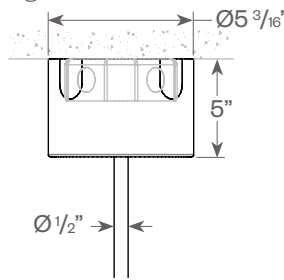
Power Canopy Rigid Stem (P.C.RS)



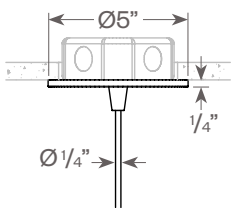
Power Conduit Canopy Cord (P.C.D.C.C)



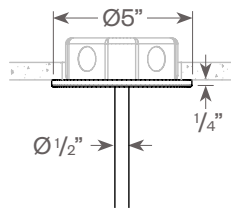
Power Conduit Canopy Rigid Stem (P.C.D.C.RS)



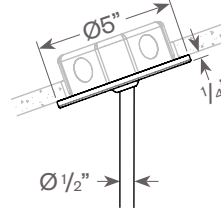
Canopy Cord (C.C)



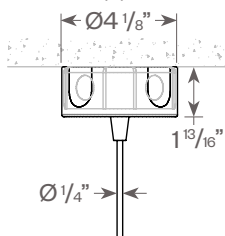
Canopy Rigid Stem (C.RS)



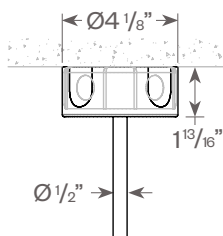
Canopy Swivel Stem (C.SS)



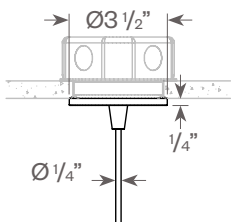
Conduit Canopy Cord (C.D.C.C)



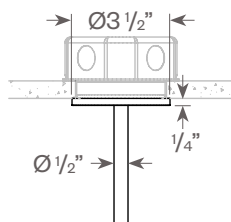
Conduit Canopy Rigid Stem (C.D.C.RS)



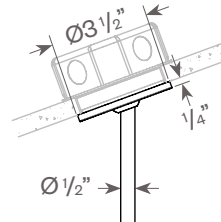
Reduced Canopy Cord (R.C.C)



Reduced Canopy Rigid Stem (R.C.RS)



Reduced Canopy Swivel Stem (R.C.SS)



Rook® 250 Mini

2.5" Mini Round Pendant, Direct/Indirect



PROJECT:

TYPE:

FIXTURE DATA:

MULTIPLYING FACTORS FOR DIRECT PORTION:

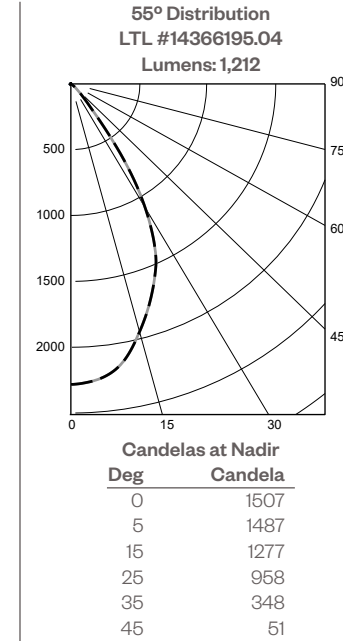
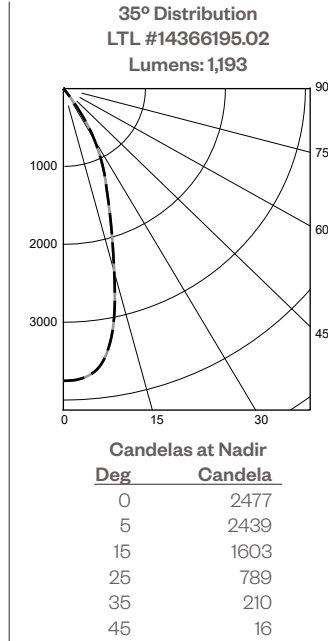
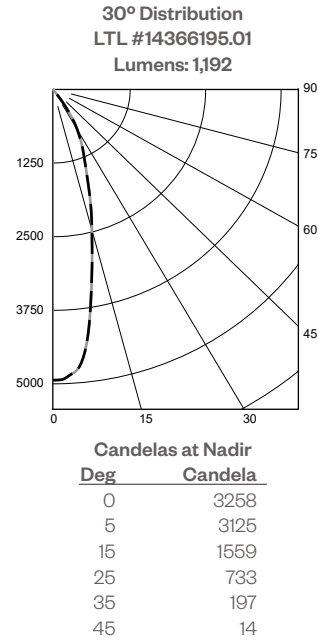
Wattage:	6W	8W	10W	12W	20W*
Factor:	0.35	0.46	0.56	0.66	1.0

* 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.

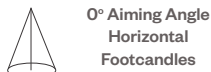
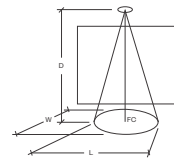
12W LED, 3000K, 80+, Direct



Application Data:

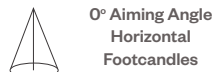
Notes and Definitions:

- 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.



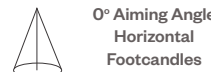
30° Distribution

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



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

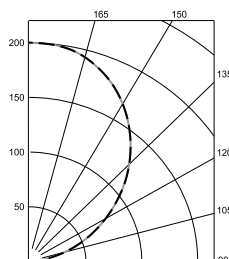


55° Distribution

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 Mini

2.5" Mini 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

Compatible Dimmers†:

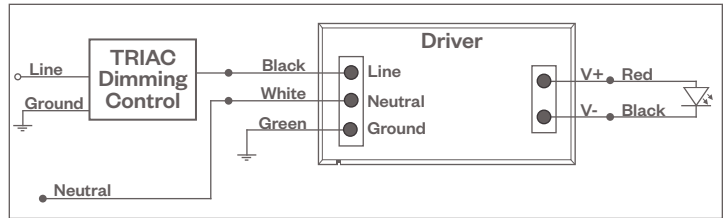
Wall Box (TRIAC 120VAC)

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

Central System

Lutron "GP" Panel
Lutron Grafik Eye QS

TRIAC Wiring Diagram



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

Compatible Dimmers†:

Wall Box (ELV 120VAC)

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

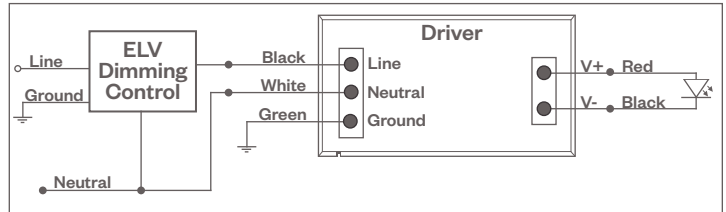
Wall Box (ELV 277VAC)

Leviton Revoir II AWSMT-E

Central System

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

ELV Wiring Diagram



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 Mini

2.5" Mini 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 ---

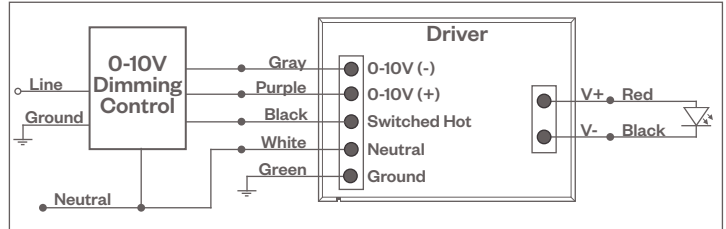
0-10V DIMMING

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-TV1 Interface

LUTRON P-SERIES / ECOSYSTEM

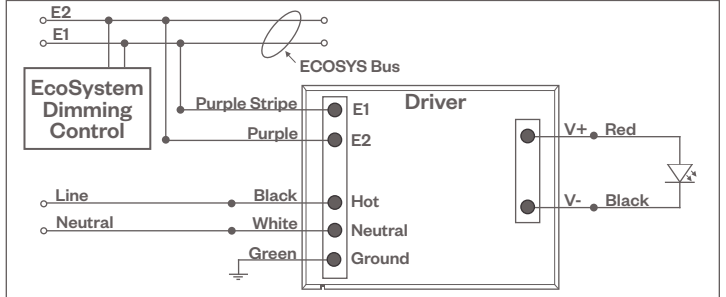
Integrates into Lutron EcoSystem building management

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

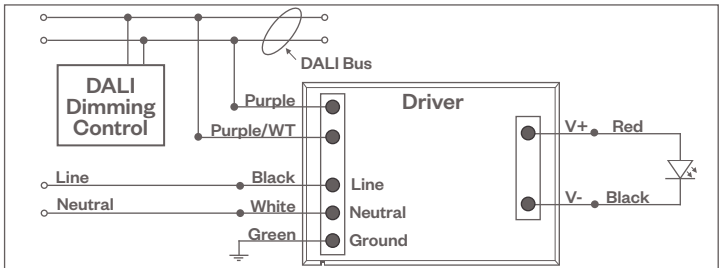
DALI DIMMING

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.