

Rook® 250 Mini

2.5" Mini Round Pendant, Frame Mount, Direct/Indirect



PROJECT:

TYPE:

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, Frame Mount, Direct/indirect
 Wattage: Direct: 6W, 8W, 10W, 12W
 Indirect: 10W
 Color Temp: 2700K, 3000K, 3500K, 4000K
 CRI: 80+ typ. or 90+ typ.
 Dimming: TRIAC & ELV, 5% dim, 120V/277VAC
 0-10V, 1% dim, 120V/277VAC
 Lutron Hi-lume® EcoSystem Premier 0.1% dim with soft-on& fade-to-black, 120V/277VAC (consult factory for availability)
 DALI, 1% dim, 120V/277VAC
 Power over ethernet (PoE), consult factory

Certifications



Fixture Summary

Performance Data

Direct		Indirect		Total	Total		
Watts	Lumens	Watts	Lumens	Lumens	LPW	Color Temp	CRI
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+ 120V IES files available on website.

Electrical Data

	16W		18W		20W		22W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps	System 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

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Ordering Information

RK250MRDI-NC 10 . 120-277

1 2 3 4 5 6 7

1 Model	2 Style	3 Wattage - Direct	4 Wattage - Indirect	5 Voltage	6 Driver	7 Options/Accessories
RK250MRDI-NC (new construction)	T trimmed (canopy) TL trimless (flush plate)	6 6W (643 lm) 8 8W (845 lm) 10 10W (1028 lm) 12 12W (1212 lm) (Lumens delivered @ 83 CRI/30K/55° beam)	10 10W (544 lm) (Lumens delivered @ 80 CRI/30K/105° beam)	120-277 120V-277V	LE/TE TRIAC/ELV dimming, 5% dim O-10V 0-10V dimming, 1% dim HILUME-P-ECO Lutron Hi-lume® EcoSystem Premier 0.1% dim with soft-on and fade-to-black, 120V/277VAC (consult factory for availability) DALI DALI dimming, 1% dim POE PoE, consult factory	EM emergency battery pack with remote test switch HB49 hanger bars from min 29" to max 49"

Ordering Information - Direct Fixture

RK250MRDI-F

1 2 3 4 5 6 7 8 9 10 11

1 Model	2 Housing Finish	3 Style	4 Suspension	5 Mounting/Suspension Finish	6 Trim Finish	7 Beam Spread - Direct	8 Beam Spread - Indirect	9 Color Temp and CRI - Direct	10 Color Temp and CRI - Indirect	11 Options/Accessories
RK250MRDI-F mini round direct/indirect, frame mount	MW matte white MB matte black SLV matte silver _____ custom RAL finish	T trimmed (canopy) TL trimless (flush plate)	Cord (nominal overall length, field adjustable) C4 cord, 4' C8 cord, 8' Stem (nominal overall length, stem can be field cuttable) RS4 rigid stem, 4' RS8 rigid stem, 8'	MW matte white MB matte black SLV matte silver	MW matte white MB matte black SLV matte silver _____ custom RAL finish	30 30° 35 35° 55 55°	105 105°	80+ CRI 90+ CRI 27 2700K, 80+ 279 2700K, 90+ 30 3000K, 80+ 309 3000K, 90+ 35 3500K, 80+ 359 3500K, 90+ 40 4000K, 80+ 409 4000K, 90+	80+ CRI 90+ CRI 27 2700K, 80+ 279 2700K, 90+ 30 3000K, 80+ 309 3000K, 90+ 35 3500K, 80+ 359 3500K, 90+ 40 4000K, 80+ 409 4000K, 90+	Glare Control (can only take one) SOL solite beam softening 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 ** Consult factory for custom length and/or for availability.

Rook® 250 Mini

2.5" Mini Round Pendant, Frame Mount, Direct/Indirect



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Specifications

Application

Retail and commercial ambient/task lighting

Construction

20 ga. galvanized steel frame
18 ga. galvanized steel splice housing and hanger brackets
Cast aluminum plaster frame with perforated face (*for trimless version only*)
Extruded aluminum pendant housing
Die-cast trim

Optical

Direct Beam Spreads: 30°, 35°, 55°
Indirect Beam Spreads: 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
DALI dimming, 1% dim
Lutron Hi-lume EcoSystem Premier 0.1% dim with soft on & fade to black (*consult factory for availability*)
PoE consult factory
See pages 6-8 for more dimming information

Finish

Powder coat paint
Consult factory for custom finishes

Mounting

26" Hanger bars included
Optional **HB49** - hanger bars from min 29" to max 49" available
Trimmed Fixture: For use in grid or sheetrock ceilings, 5/8" - 2" standard
Trimless Fixture: For use in sheetrock ceilings, max ceiling thickness 5/8"

Emergency Battery Pack (EM)

Powers fixture at 5.1 watts (*approx. 400 Lm*) for 90 minutes (*not for use with REM version*)

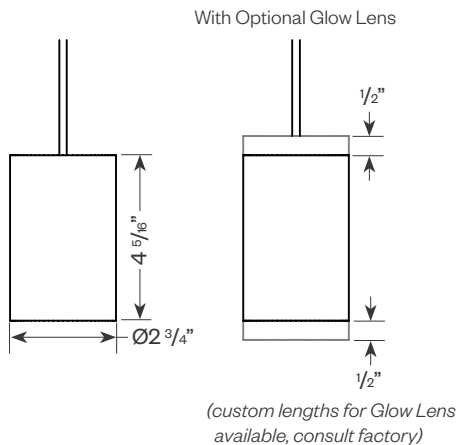
Certifications

CSA tested to UL standards
Indoor use only
Damp location

Warranty

5 year limited warranty

Product Details



Rook® 250 Mini

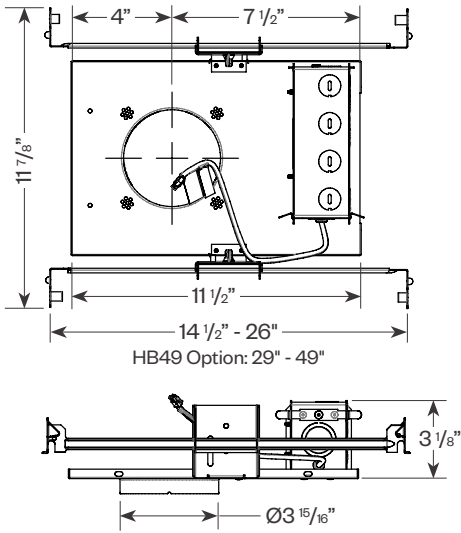
2.5" Mini Round Pendant, Frame Mount, Direct/Indirect



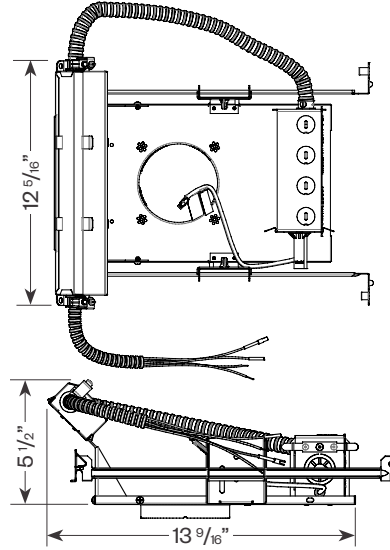
PROJECT:

TYPE:

Product Details



With Emergency Battery Pack

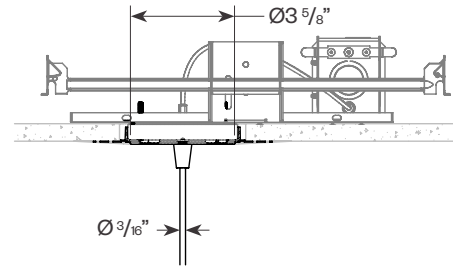
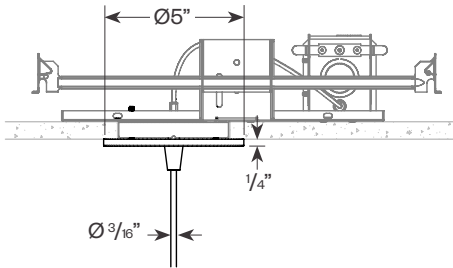


Mounting Options

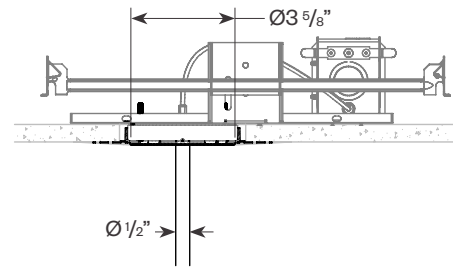
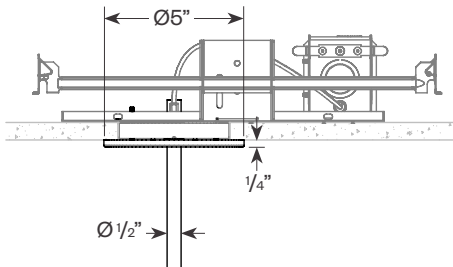
Trimmed

Trimless

Cord



Rigid Stem



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PROJECT:

TYPE:

Performance Data

Multiplying Factors: (Multiplying Factor is based on 3000K, 80+ 120V IES file on website)

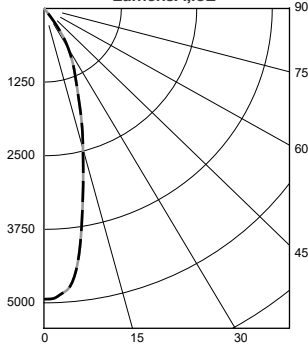
Wattage:	6W	8W	10W	12W	20W*
Factor:	0.35	0.46	0.56	0.66	1.0

* 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

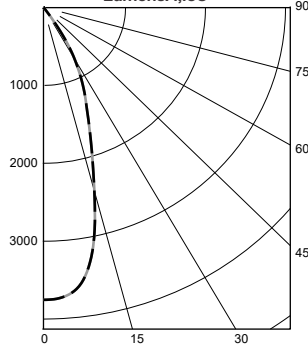
12W, 3000K, 80+, Direct

30° Distribution
LTL #14366195.01
Lumens: 1,192



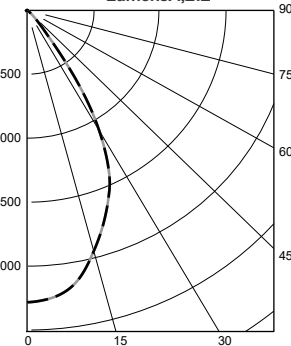
Candelas at Nadir	
Deg	Candela
0	3258
5	3125
15	1559
25	733
35	197
45	14

35° Distribution
LTL #14366195.02
Lumens: 1,193



Candelas at Nadir	
Deg	Candela
0	2477
5	2439
15	1603
25	789
35	210
45	16

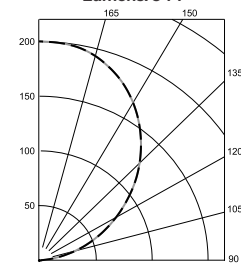
55° Distribution
LTL #14366195.04
Lumens: 1,212



Candelas at Nadir	
Deg	Candela
0	1507
5	1487
15	1277
25	958
35	348
45	51

10W, 3000K, 80+, Indirect

105° Distribution
LTL #14271976.09
Lumens: 544



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

Application Data - Direct Only

Notes and Definitions:

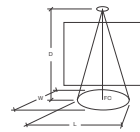
Beam spread is to 50% center beam candlepower (CBCP).

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).



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

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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 ---

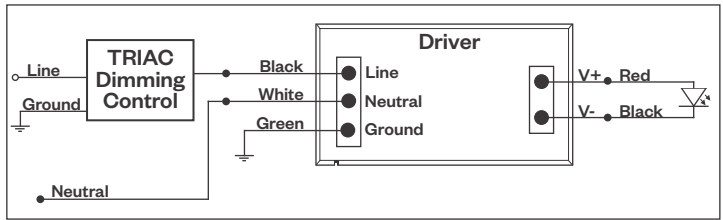
TRIAC (Forward Phase) Dimming

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"	

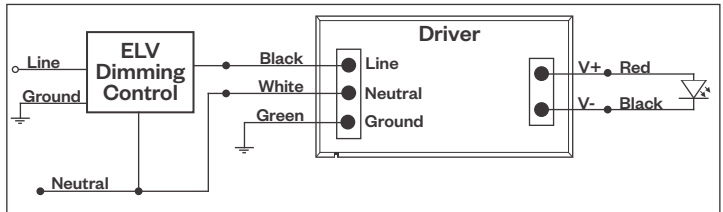
ELV - Electronic Low Voltage (Reverse Phase) Dimming

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 per dimming manufacturer

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 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 (continued)

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--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

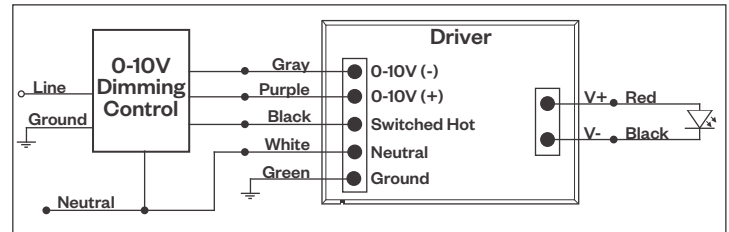
0-10V DIMMING

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	Central System
Lutron "Diva" - DVSTV	Lutron Grafik Eye with GRX-TVI Interface
Leviton Renoir II 0-10V	

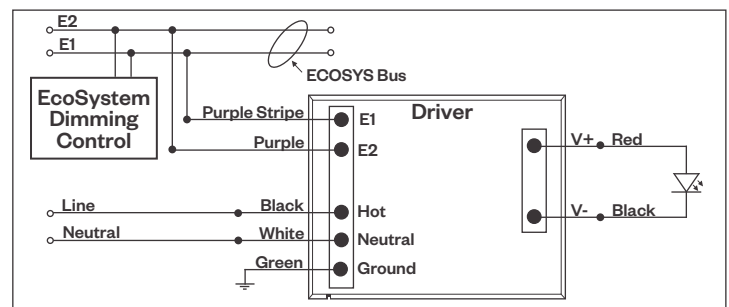
LUTRON P-SERIES / ECOSYSTEM

Integrates into Lutron EcoSystem building management

Notes:

- 120VAC or 277VAC*
- Dims down to 0.1% 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	Central System
Lutron "Diva"	Lutron EcoSystem compatible controls
Lutron "Nova-T"	
Lutron "Maestro"	

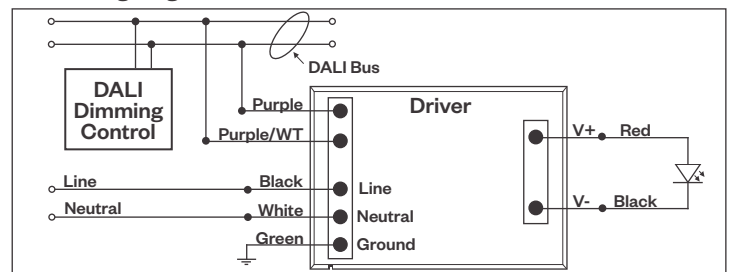
DALI DIMMING

Digital control protocol allows individual fixture control

Notes:

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

DALI Wiring Diagram



Compatible Dimmers*:

Wall Box (3-Wire Fluorescent)	Central System
Leviton CD250 Controller	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 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:

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Emergency Battery Pack

Wiring Diagram

