

Rook® 250 Mini

2.5" Mini Round Pendant, Direct/Indirect

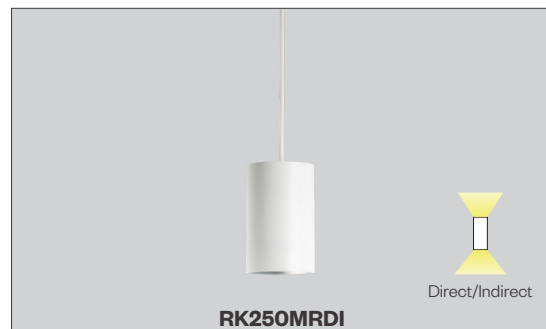


PROJECT:

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, Direct/indirect, Remote Driver
Wattage: Direct: 6W, 8W, 10W, 12W
Indirect: 10W
Color Temp: 2700K, 3000K, 3500K, 4000K
Signature LED options in 2700K & 3000K
CRI: 80+ typ. or 90+ typ.
Dimming: TRIAC & ELV, 5% dim, 120/277VAC
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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PROJECT:

TYPE:

Ordering Information

RK250MRDI . 10 105														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 Model		2 Wattage - Direct		3 Wattage - Indirect		4 Housing Finish								
RK250MRDI round direct/indirect, remote driver		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)		MW matte white MB matte black SLV matte silver _____ custom RAL finish								
5 Mounting		6 Suspension		7 Mounting/Suspension Finish										
Driver in Canopy PC power canopy PCDC power conduit canopy Driver in Remote Box C canopy CDC conduit canopy RC reduced canopy		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.		MW matte white MB matte black SLV matte silver										
8 Voltage		9 Trim Finish		10 Beam Spread - Direct		11 Beam Spread - Indirect								
120-277 120V-277V		MW matte white MB matte black SLV matte silver _____ custom RAL finish		30 30° 35 35° 55 55°		105 105°								
12 Color Temp and CRI - Direct		13 Color Temp and CRI - Indirect												
80+ CRI 90+ CRI 27 2700K, 80+ 279 2700K, 90+ SA27 Signature Ambiance 2700K-90+ 30 3000K, 80+ 309 3000K, 90+ SA30 Signature Ambiance 3000K-90+ 35 3500K, 80+ 359 3500K, 90+ SW30 Signature White 3000K-90+ 40 4000K, 80+ 409 4000K, 90+ SC30 Signature Color 3000K-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+												
14 Driver		15 Options/Accessories												
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 and fade-to-black, 120V/277VAC (consult factory for availability) DALI† DALI dimming, 1% dim POE PoE, consult factory * Only available in Remote Box Mounting options.		Glare Control (can only take one) SOL solite beam softening lens HEX hexocell louver Decorative GDC** 1/2" glow lens, direct, clear GDF** 1/2" glow lens, direct, frosted ** Consult factory for custom length and/or 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: 2700K, 3000K, 3500K, 4000K
Signature Ambiance, White, and Color options available (*see below*)
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
Signature Ambiance (2700K & 3000K): A refined, warm light recipe ideal for hospitality, residential-style commercial spaces, and retail. It accentuates woods, textiles, bronze, and darker finishes, creating a relaxed and inviting luxury environment.
Signature White (3000K): A premium white option built for crisp displays, clean architectural finishes, and retail settings. It enhances white surfaces and visual clarity, ensuring whites read brighter without sacrificing refinement.
Signature Color (3000K): A vibrant, color-enhancing option designed for spaces where merchandise, fabrics, and finishes need to stand out. It heightens the contrast between colors and whites, delivering deeper, richer presentations for dynamic retail and hospitality experiences.

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

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

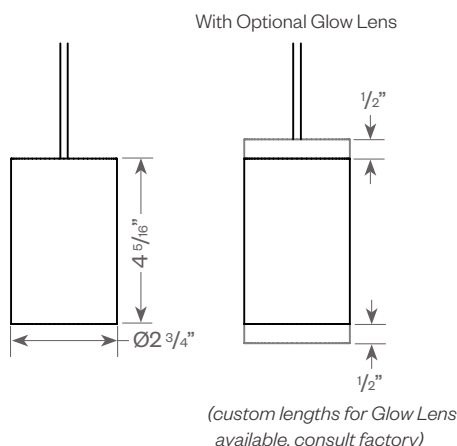
Certifications

CSA tested to UL standards
Indoor use only
Damp location

Warranty

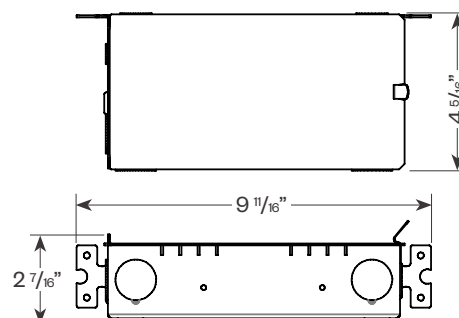
5 year limited warranty

Product Details



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

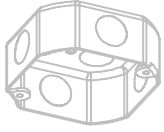
2.5" Mini Round Pendant, Direct/Indirect



PROJECT:

TYPE:

Junction Box Mounting Requirements

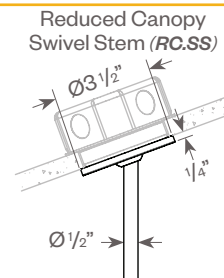
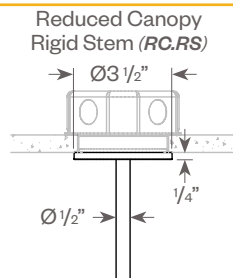
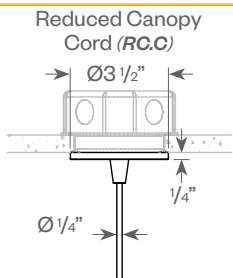
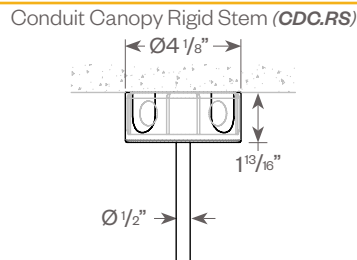
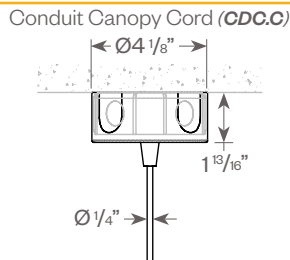
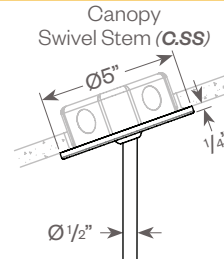
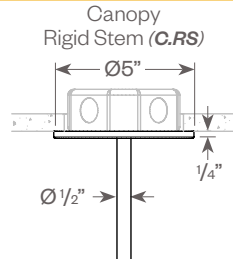
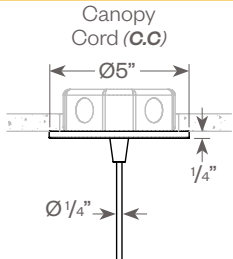
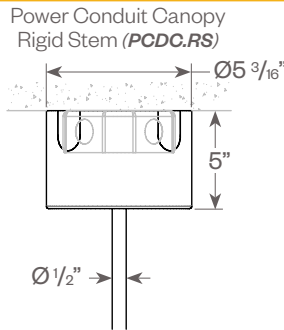
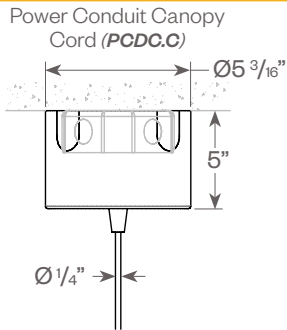
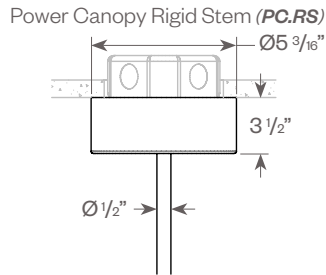
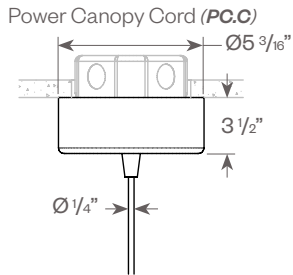


Canopy (C) & Conduit Canopy (CDC) Mounts
Require 4" Octagonal Junction Box (*by others*)



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

Mounting Options



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LIT-2359 • 08/03/26 • Page 4 of 7

Rook® 250 Mini

2.5" Mini Round Pendant, Direct/Indirect



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.

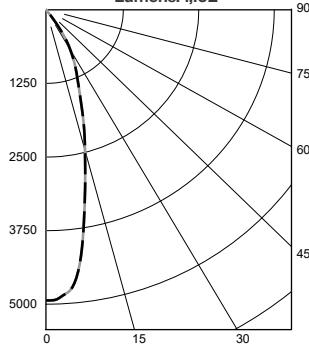
CCT:	2700K, 80+	3000K, 80+	3500K, 80+	4000K, 80+
Factor:	0.96	1.0	1.02	1.04

CCT:	2700K-90+	3000K-90+	3500K-90+	4000K-90+	3CLA	SA27*	SA30*	SW30*	SC30*
Factor:	0.83	0.86	0.90	0.93	0.725	0.980	1.003	1.074	0.999

* Available for Direct optics only.

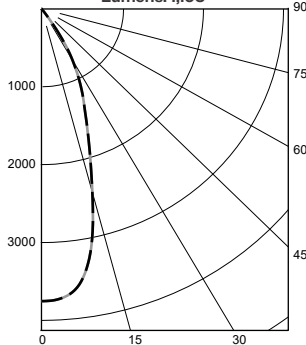
12W, 3000K, 80+, Direct

30° Distribution
LTL #14366195.01
Lumens: 1,192



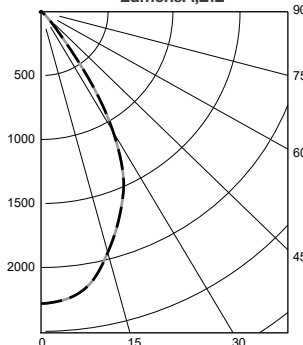
Candelas at Nadir	
Deg	Candela
0	3258
5	3125
15	1559
25	733
35	197
45	14

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

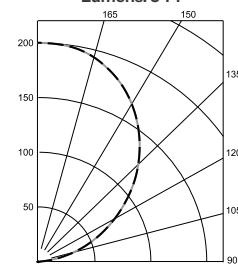
55° Distribution
LTL #14366195.04
Lumens: 1,212



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:

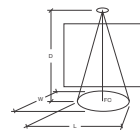
Beam spread is to 50% center beam candlepower (CBCP).

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



Delta Intelligent Building Technologies

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

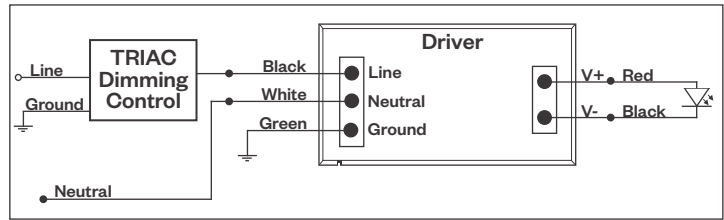
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

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

TRIAC Wiring Diagram



ELV - Electronic Low Voltage (Reverse Phase) Dimming

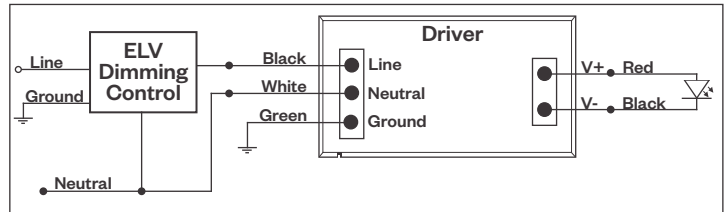
Utilizes specialized "ELV" dimmers.

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

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"		

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 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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LIT-2359 • 08/03/26 • Page 6 of 7

Rook® 250 Mini

2.5" Mini Round Pendant, Direct/Indirect



PROJECT:

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Dimming Compatibility *(continued)*

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 ---

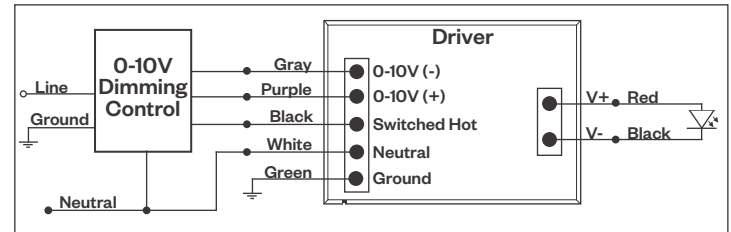
0-10V DIMMING

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	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

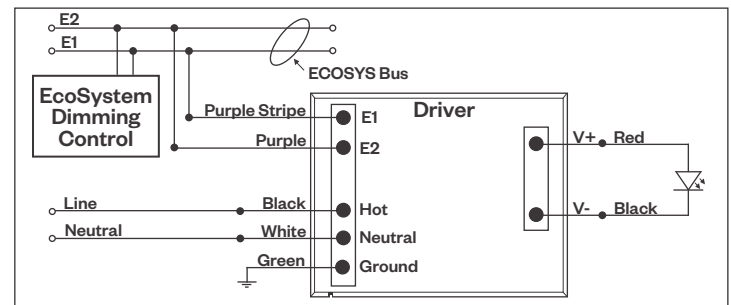
Notes:

- 120VAC or 277VAC*
- Dims down to 0.1% light output
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

Compatible Dimmers*:

Wall Box	Central System
Lutron "Diva"	Lutron EcoSystem compatible controls
Lutron "Nova-T"	
Lutron "Maestro"	

HILUME-P-ECO EcoSystem Digital Control Wiring Diagram



DALI DIMMING

Digital control protocol allows individual fixture control

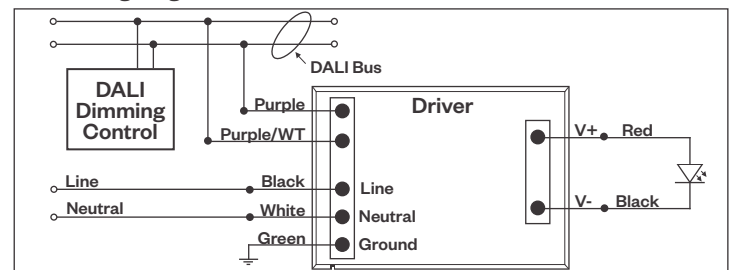
Notes:

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

Compatible Dimmers*:

Wall Box (3-Wire Fluorescent)	Central System
Leviton CD250 Controller	Dynalite
	Fifth Light

DALI 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 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.