Rook® 475

4.75" Round Pendants

PROJECT: **TYPE:**

Features

The Rook 475 Pendant translates the control, performance, and comfort of our downlights into a sophisticated new format. The 475 pairs perfectly with the Evoke 4.75" Downlight. The Rook is perfect for creating drama and focused light in reception areas, office environments, and retail spaces. The new Rook 475 enhances beam control, and maintains design integrity across all of our pendant lines.

RK475Rxx

Product Overview

Type:	Round Pendant
Wattage:	14W, 19W, 27W
Color Temp:	2200K, 2700K, 3000K, 3500K, 4000K
CRI:	83 typ. *(2700K, 3000K, 3500K, 4000K)*
	90+ typ. *(2200K, 2700K, 3000K, 3500K, 4000K)*
	CrispWhite & Class A LEDs available
Dimming:	TRIAC & ELV, 5% Dim, 120/277VAC
	Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black, 120V/277VAC
	0-10V, 1% dim, 120V/277VAC

RK475Rxx
Surface Mount

Certifications

5 year limited warranty
AMERLUX LED

Fixture Summary

Performance Data

Watts	Delivered Lumens	LPW	Color Temp-CRI
Rook 475 RD			
14	1294	92.4	3000K-83
19	1618	85.1	3000K-83
27	2311	75.9	3000K-83

Data is based on 3000K-83 120V IES files available on website.
Data is based on Very Wide Flood optic.
See pages 5-6 for data on other beam spreads.

Electrical Data

	14W		19W		27W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	14	0.12	19	0.16	27	0.23
277V	14	0.05	19	0.07	27	0.10

Electronic constant current LED driver

Rook® 475

4.75" Round Pendants

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PROJECT:	TYPE:

Ordering Information

_____ . _____ . _____ . _____ . **120-277** . _____ . _____ . _____ . _____

1 **2** **3** **4** **5** **6** **7** **8** **9**

1 Model	2 Wattage	3 Housing Finish
RK475RD	**14**	**MW** matte white
RK475RLD *(lensed)*	**19**	**MB** matte black
	27	**SLV** matte silver

4 Mounting *(matches housing finish)*

Canopy/Cord

CC4 canopy/cord, 4' nominal OAL, 120V-277V
CC8 canopy/cord, 8' nominal OAL, 120V-277V
CC12 canopy/cord, 12' nominal OAL, 120V-277V
CDCC4* conduit canopy/cord, 4' nominal OAL, 120V-277V
CDCC8* conduit canopy/cord, 8' nominal OAL, 120V-277V
CDCC12* conduit canopy/cord, 12' nominal OAL, 120V-277V

Stem

RS4 rigid stem, 4' nominal OAL, 120V-277V
RS8 rigid stem, 8' nominal OAL, 120V-277V
SS4 swivel stem, 4' nominal OAL, 120V-277V
SS8 swivel stem, 8' nominal OAL, 120V-277V
CDRS4* conduit rigid stem, 4' nominal OAL, 120V-277V
CDRS8* conduit rigid stem, 4' nominal OAL, 120V-277V

Surface

SM surface mount, 120V-277V
CDSM* conduit surface mount, 120V-277V

Consult factory for conduit mounting pricing. Cord and Stem mounts are field cuttable. For custom lengths, consult factory.

5 Voltage	6 Trim Finish	7 Beam Spread	
120-277	**SD** semi-diffuse	RK475RD	RK475RLD
	CL specular clear *(not available for use with RK475RD)*	**SP** spot, 15°	**30SOL** 30° solite lens
		FL flood, 25°	**50SOL** 50° solite lens
		WF wide flood, 40°	**75SAT** 75° satin ice lens
		VWF very wide flood, 70°	

8 Color Temp

83 CRI	90+ CRI	
27 2700K-83	**229** 2200K-90+	**CRISP**† CrispWhite *(14W only)*
30 3000K-83	**279** 2700K-90+	**3CLA** 3K Class A
35 3500K-83	**309** 3000K-90+	
40 4000K-83	**359** 3500K-90+	
	409 4000K-90+	

9

LE/TE TRIAC/ELV dimming, 5% dim
0-10V 0-10V dimming, 1% dim
HILUME-H-ECO Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black

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Rook® 475

4.75" Round Pendants

PROJECT:	TYPE:

Specifications

Application

Retail and commercial ambient/task lighting

Construction

Extruded aluminum pendant housing
Die-cast trim
Extruded aluminum heat sink

Optical

RK475RD
Spun aluminum upper optic reflector
Spun aluminum anodized lower reflector cone
Beam Spreads:
Spot, 15°; Flood, 25°; Wide Flood, 40°; Very Wide Flood, 70°
RK350RLD
Engineered nano technology lens provides high transmission while concealing LED image.
Beam Spreads:
Satin Ice Lens for maximum source concealment and wide distribution with a visually "hotter" aperture. 75° beam spread.
Solite Lens for maximum efficacy and a visually quieter aperture. 30° & 50° beam spread options. Visually best with SLV reflector finish.

LED

Color Temp Options: 2200K, 2700K, 3000K, 3500K, 4000K
CRI: 83 typ. *(2700K, 3000K, 3500K, 4000K)*
90+ typ. *(2200K, 2700K, 3000K, 3500K, 4000K)*
CrispWhite* LED available *(14W only)*
Class A** 3000K LED available
R9 Values: 11 *(83 CRI)*, 55 *(92 CRI)*
Binning: 3 MacAdam *(SDCM)*
Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

* ***CrispWhite:*** *CrispWhite Technology delivers the warmth of colors expected from a high 90 CRI solution but also creates the natural crisp white color that is pleasing to the eye. It creates the most impactful lighting ever available, by revealing the richest whites and vibrant colors that pop.*

** ***Class A LED:*** *Class A LED's have a CRI > 80 and a GAI > 80. CRI defines color "Naturalness" and GAI defines color "Saturation." Both being high delivers rich colors and pure whites.*

Electrical

Wattage: 14W, 19W, 27W
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)* or Trailing Edge *(ELV, Reverse Phase)* autosensing driver dims down to 5% on most dimming systems.
0-10V and Lutron also available
See pages 9-10 for more dimming information

Finish

Powder coat paint
Consult factory for custom finishes

Mounting

Canopy/cord, rigid stem, swivel stem or surface mounting
Conduit mounting also available *(see pg 4 for details)*.
Overall length *(OAL)* is field adjustable and factory set at ± 2" of nominal value.

Certifications

CSA tested to UL standards
Indoor use only
Damp location

Warranty

5 year limited warranty

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Rook® 475

4.75" Round Pendants

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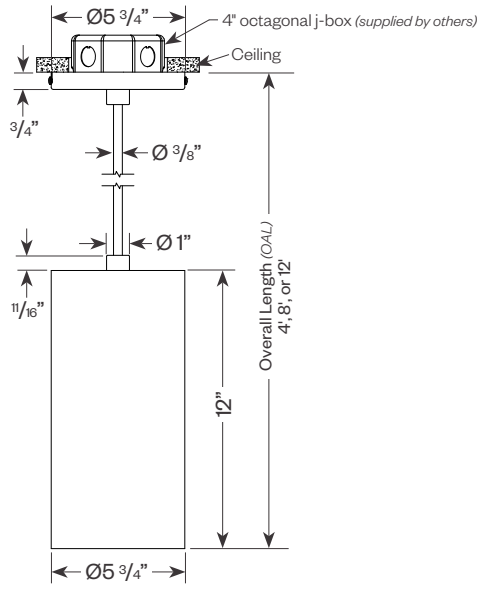
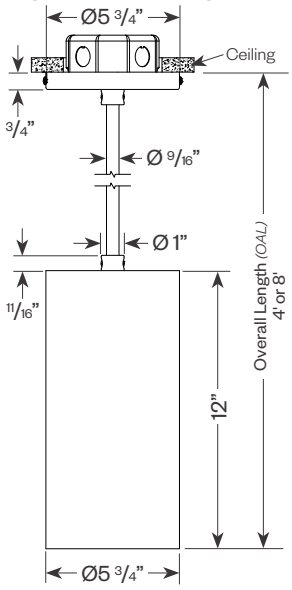
PROJECT:	TYPE:

Product Details

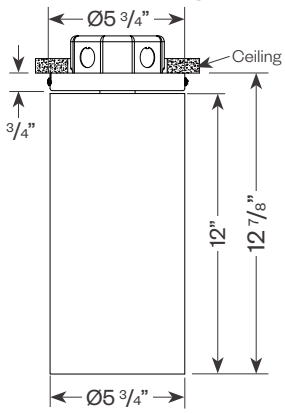
Canopy/Cord Mounting



Rigid Stem Mounting

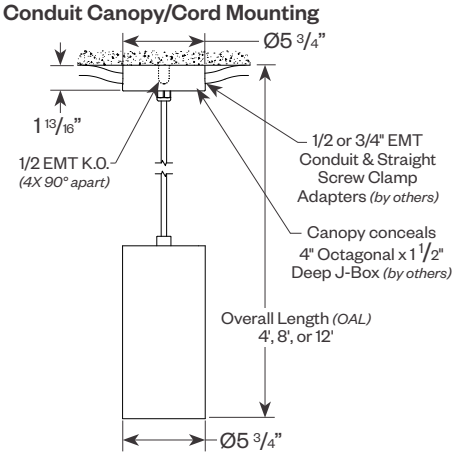


Surface Mounting

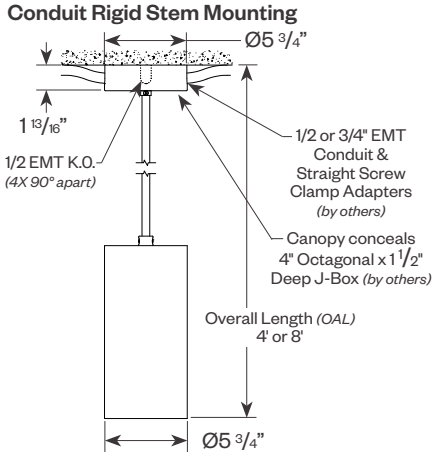


Ceiling Cut Out: Ø4 1/4"

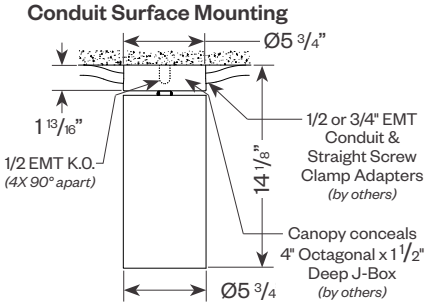
Conduit Canopy/Cord Mounting



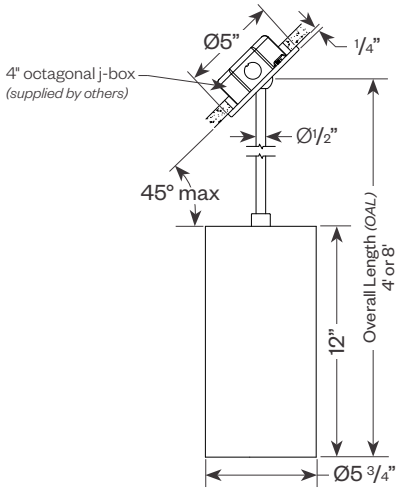
Conduit Rigid Stem Mounting



Conduit Surface Mounting



Swivel Stem Mounting



Ceiling Cut Out: Ø4 1/4"

Rook® 475

4.75" Round Pendants

PROJECT: **TYPE:**

Performance Data - RK350RD

Multiplying Factors: *(Multiplying Factor is based on 3000K-83 120V IES file on website)*

CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

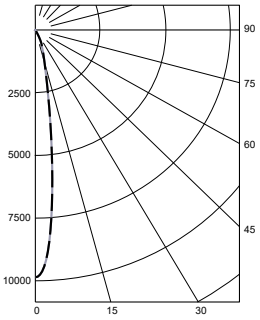
Wattage:	14W	19W	27W
Factor:	1.0	1.4	1.7

CCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP*	3CLA
Factor:	0.71	0.80	0.83	0.87	0.90	0.65	0.75

*** 14W only**

14W, 3000K-83

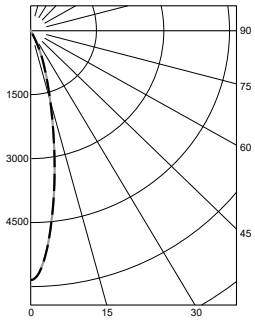
Spot (SP) Distribution, 15°
LTL #1085472
Lumens: 1,125; 72.3 Lm/W



Candelas at Nadir

Deg	Candela
0	8683
5	7029
15	1289
25	374
35	40
45	24

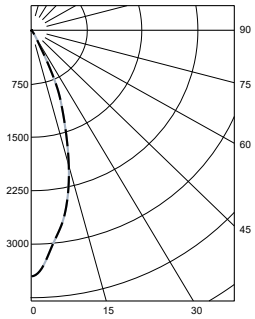
Flood (FL) Distribution, 25°
LTL#1085470
Lumens: 1,170; 75.1 Lm/W



Candelas at Nadir

Deg	Candela
0	5849
5	4894
15	1813
25	430
35	45
45	17

Wide Flood (FL) Distribution, 40°
LTL # 1085471
Lumens: 1,195; 71.9 Lm/W



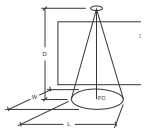
Candelas at Nadir

Deg	Candela
0	3451
5	3074
15	1972
25	671
35	78
45	19

Application Data - RK350RD

0° Aiming Angle Horizontal Footcandles

	D	FC	L	W
Spot	5.0'	395	1.3	1.3
	7.5'	176	1.8	1.8
	10.0'	99	2.6	2.6
	12.5'	63	3.2	3.2
Flood	5.0'	235	1.8	1.8
	7.5'	104	2.9	2.9
	10.0'	59	3.7	3.7
	12.5'	38	4.7	4.7
Wide Flood	5.0'	138	2.8	2.8
	7.5'	62	4.1	4.1
	10.0'	35	5.5	5.5
	12.5'	22	6.9	6.9



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)*.

Rook® 475

4.75" Round Pendants

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PROJECT:	TYPE:

Performance Data - RK350RD

Multiplying Factors: *(Multiplying Factor is based on 3000K-83 120V IES file on website)*

CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

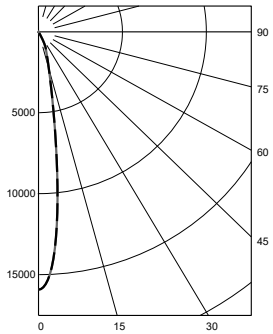
Wattage:	14W	19W	27W
Factor:	0.56	0.70	1.0

CCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP*	3CLA
Factor:	0.71	0.80	0.83	0.87	0.90	0.65	0.75

*** 14W only**

27W, 3000K-83

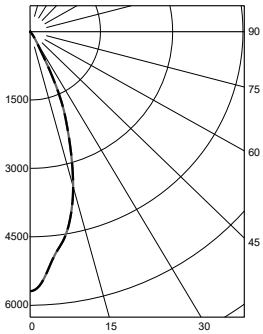
Spot (SP) Distribution, 15°
LTL #1085473
Lumens: 1,950; 66.5 Lm/W



Candelas at Nadir

Deg	Candela
0	15930
5	12010
15	2227
25	698
35	74
45	34

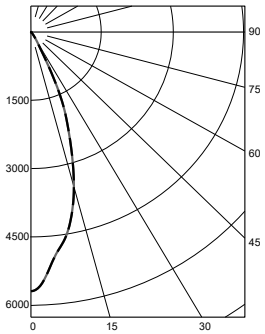
Flood (FL) Distribution, 25°
LTL#1085475
Lumens: 2,089; 71.4 Lm/W



Candelas at Nadir

Deg	Candela
0	10520
5	8749
15	3274
25	801
35	69
45	25

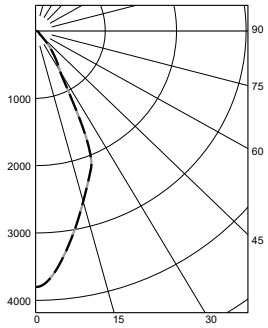
Wide Flood (WF) Distribution, 40°
LTL # 1085474
Lumens: 2,104; 71.9 Lm/W



Candelas at Nadir

Deg	Candela
0	5693
5	5088
15	3518
25	1239
35	135
45	27

Very Wide Flood (VWF) Distribution, 70°
LTL # 11644246.01
Lumens: 2,311; 75.9 Lm/W



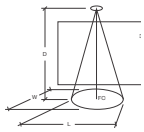
Candelas at Nadir

Deg	Candela
0	3803
5	3533
15	2608
25	1566
35	481
45	158

Application Data - RK350RD

0° Aiming Angle Horizontal Footcandles

	D	FC	L	W
Spot	5.0'	722	1.3	1.3
	7.5'	308	1.8	1.8
	10.0'	170	2.7	2.7
	12.5'	107	3.3	3.3
Flood	5.0'	477	1.7	1.7
	7.5'	203	2.8	2.8
	10.0'	112	3.6	3.6
	12.5'	71	4.6	4.6
Wide Flood	5.0'	259	2.8	2.8
	7.5'	110	4.2	4.2
	10.0'	61	5.6	5.6
	12.5'	39	7.2	7.2
Very Wide Flood	5.0'	159	3.5	3.5
	7.5'	70	5.3	5.3
	10.0'	39	7.1	7.1
	12.5'	25	9.0	9.0



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)*.

Rook® 475

4.75" Round Pendants

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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.

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

TRIAC *(Forward Phase)* Dimming

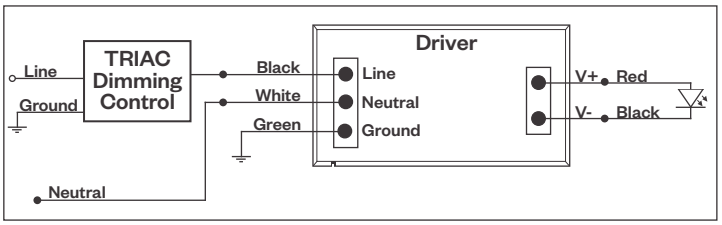
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

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



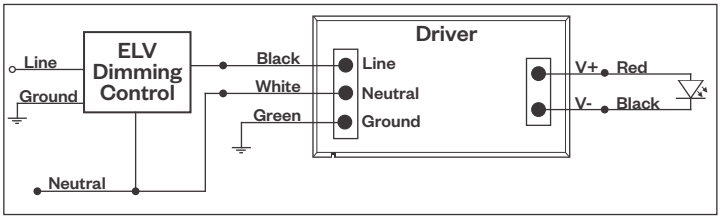
ELV - Electronic Low Voltage *(Reverse Phase)* Dimming

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

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.

Rook® 475

4.75" Round Pendants

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PROJECT:	TYPE:

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 ---

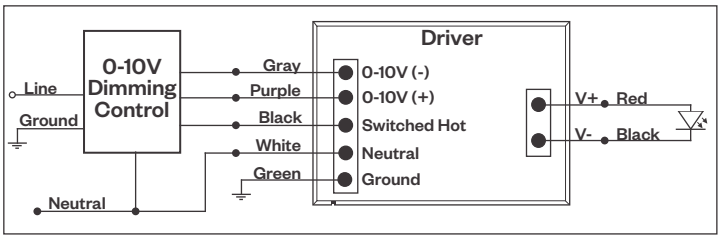
0-10V DIMMING

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	Leviton Renoir II 0-10V	Lutron Grafik Eye with GRX-TVI Interface

LUTRON LDE1 DIMMING

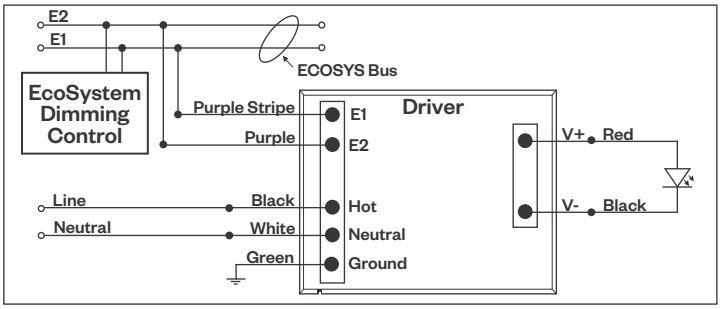
Integrates into Lutron EcoSystem building management

Notes:

- 120VAC or 277VAC*
- Dims down to 1% light output
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

Compatible Dimmers†:	
Lutron ECO System	**Central System**
Pow Pak Dimming Modules	Lutron EcoSystem compatible controls
Energi Savr Node	
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

LDE1 *(HILUME-H-ECO)* EcoSystem Digital Control 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.