

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.

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)
Class A LEDs available
Dimming: TRIAC & ELV, 5% Dim, 120V/277VAC
Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black, 120V/277VAC
0-10V, 1% dim, 120V/277VAC



Certifications



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



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)		
	<u>Canopy/Cord</u>	<u>Stem</u>	<u>Surface</u>
	CC4 canopy/cord, 4' nominal OAL, 120V-277V	RS4 rigid stem, 4' nominal OAL, 120V-277V	SM surface mount, 120V-277V
	CC8 canopy/cord, 8' nominal OAL, 120V-277V	RS8 rigid stem, 8' nominal OAL, 120V-277V	CDSM* conduit surface mount, 120V-277V
	CC12 canopy/cord, 12' nominal OAL, 120V-277V	SS4 swivel stem, 4' nominal OAL, 120V-277V	
	CDCC4* conduit canopy/cord, 4' nominal OAL, 120V-277V	SS8 swivel stem, 8' nominal OAL, 120V-277V	
	CDCC8* conduit canopy/cord, 8' nominal OAL, 120V-277V	CDRS4* conduit rigid stem, 4' nominal OAL, 120V-277V	
	CDCC12* conduit canopy/cord, 12' nominal OAL, 120V-277V	CDRS8* conduit rigid stem, 4' nominal OAL, 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	9	Driver
	83 CRI 90+ CRI		LE/TE TRIAC/ELV dimming, 5% dim
	27 2700K-83 229 2200K-90+ 3CLA 3K Class A		O-10V 0-10V dimming, 1% dim
	30 3000K-83 279 2700K-90+		HILUME-H-ECO Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black
	35 3500K-83 309 3000K-90+		
	40 4000K-83 359 3500K-90+		
			409 4000K-90+

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)

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

* 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 $\pm 2"$ of nominal value.

Certifications

CSA tested to UL standards

Indoor use only

Damp location

Warranty

5 year limited warranty

Rook® 475

4.75" Round Pendants

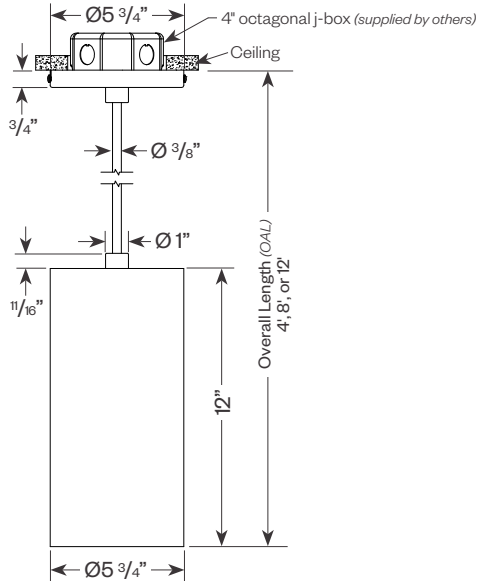


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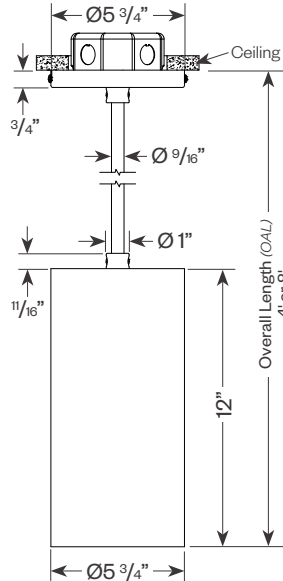
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Product Details

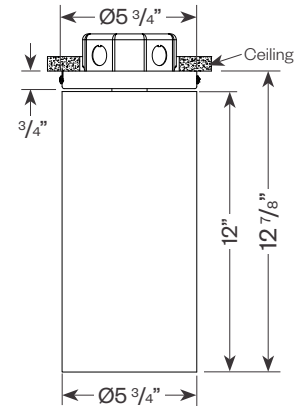
Canopy/Cord Mounting



Rigid Stem Mounting

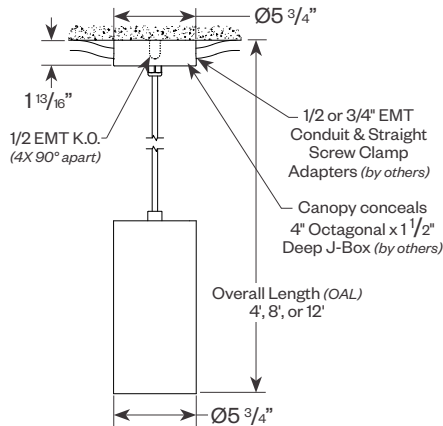


Surface Mounting

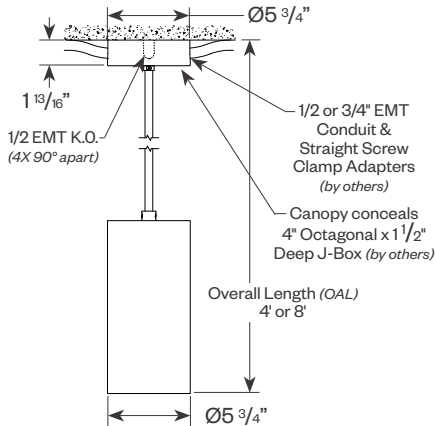


Ceiling Cut Out: $\text{Ø}4 \frac{1}{4}"$

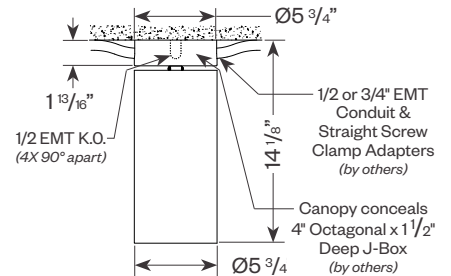
Conduit Canopy/Cord Mounting



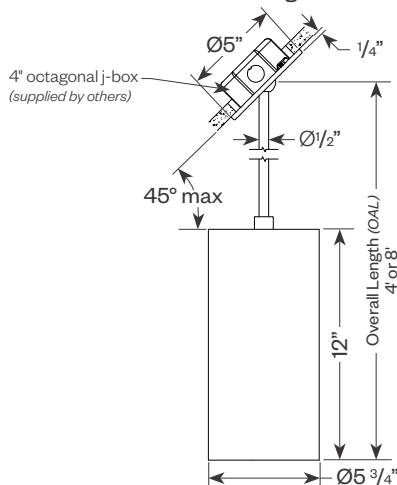
Conduit Rigid Stem Mounting



Conduit Surface Mounting



Swivel Stem Mounting



Ceiling Cut Out: $\text{Ø}4 \frac{1}{4}"$



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Rook® 475

4.75" Round Pendants



PROJECT:

TYPE:

Performance Data - RK475RD

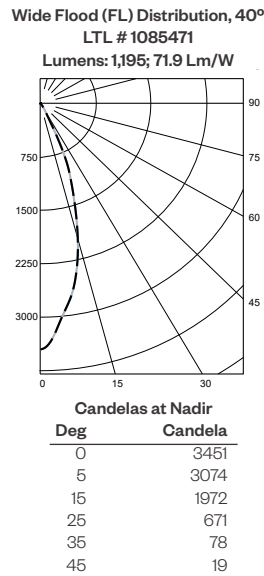
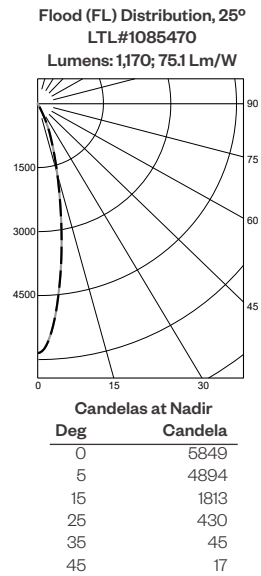
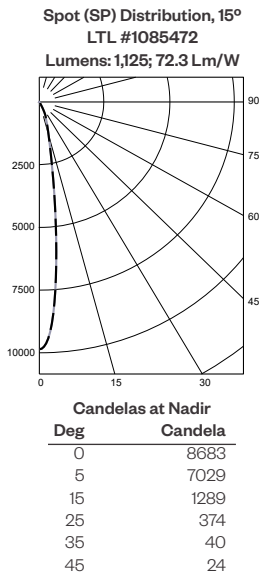
Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

OCT:	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

OCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	3CLA
Factor:	0.71	0.80	0.83	0.87	0.90	0.75

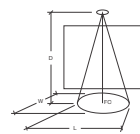
14W, 3000K-83



Application Data - RK475RD

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



PROJECT:

TYPE:

Performance Data - RK475RD

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

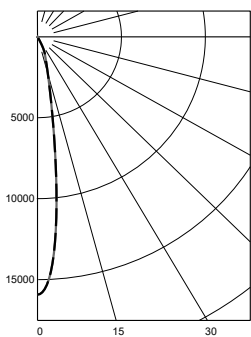
OCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

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

OCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	3CLA
Factor:	0.71	0.80	0.83	0.87	0.90	0.75

27W, 3000K-83

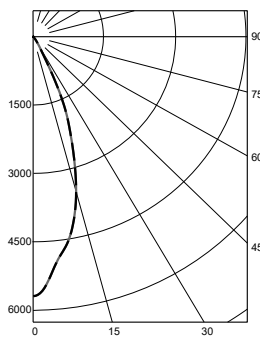
Spot (SP) Distribution, 15°
LTL #1085473
Lumens: 1,950; 66.5 Lm/W



Candelas at Nadir

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

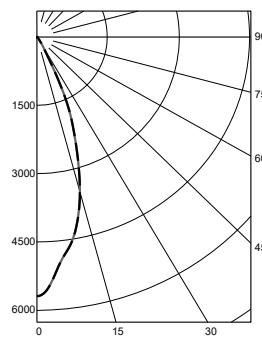
Flood (FL) Distribution, 25°
LTL #1085475
Lumens: 2,089; 71.4 Lm/W



Candelas at Nadir

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

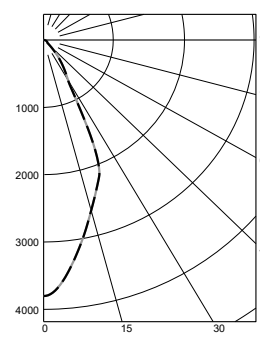
Wide Flood (WF) Distribution, 40°
LTL #1085474
Lumens: 2,104; 71.9 Lm/W



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

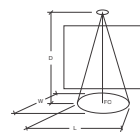
Deg	Candela
0	3803
5	3533
15	2608
25	1566
35	481
45	158

Application Data - RK475RD



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).



Delta Intelligent Building Technologies

Rook® 475

4.75" Round Pendants



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 ---

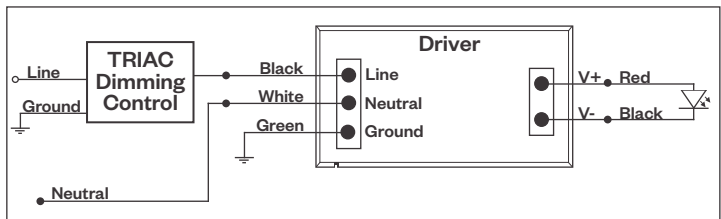
TRIAC (Forward Phase) Dimming

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

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"	

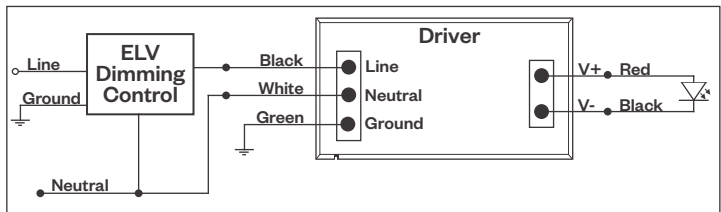
ELV - Electronic Low Voltage (Reverse Phase) Dimming

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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Rook® 475

4.75" Round Pendants



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 ---

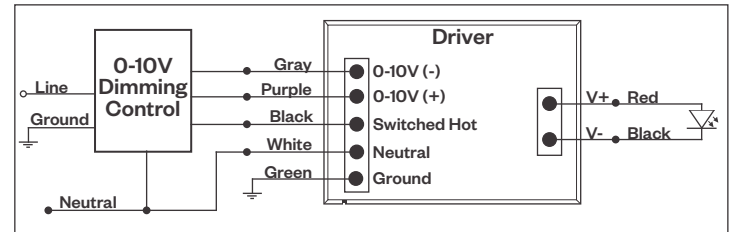
0-10V DIMMING

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

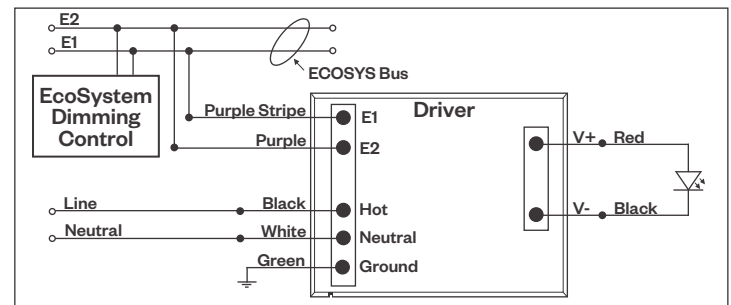
LUTRON LDE1 DIMMING

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!**

LDE1 (HILUME-H-ECO) EcoSystem Digital Control Wiring Diagram



Compatible Dimmers*:

Lutron ECO System	Central System
Pow Pak Dimming Modules	Lutron EcoSystem compatible controls
Energj Savr Node	
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

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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