

# Rook® 250 Mini

## 2.5" Mini Round Pendant, Direct/Indirect

Quick Reference: RK250MRDI



(Remote Driver)



Direct/Indirect



### 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 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

# Rook® 250 Mini

2.5" Mini Round Pendant, Direct/Indirect



## 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:

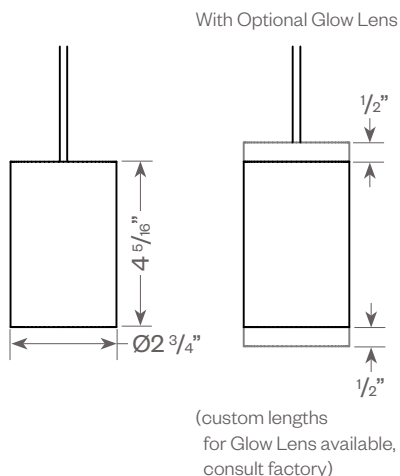
#### Certifications

CSA tested to UL standards  
Indoor use only  
Damp location

#### Warranty

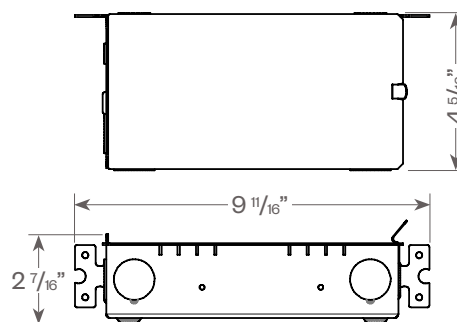
5 year limited warranty

## 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

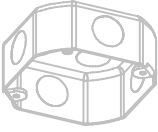
2.5" Mini Round Pendant, Direct/Indirect



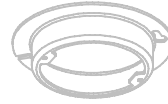
PROJECT:

TYPE:

## JUNCTION BOX MOUNTING REQUIREMENTS



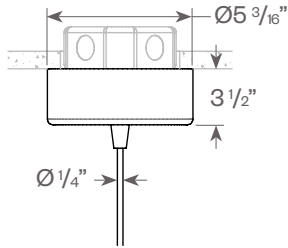
Canopy (C) & Conduit Canopy (CDC) Mounts  
Require 4" Octagonal Junction Box (by others)



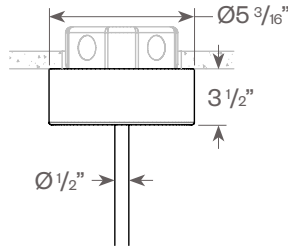
Reduced Canopy (RC) Mounts also  
Require Raised Cover (by others) for  
4" Octagonal Junction Box

## MOUNTING OPTIONS

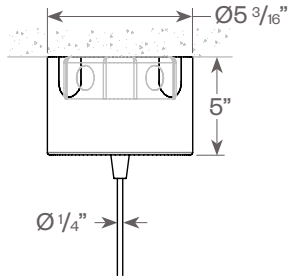
Power Canopy Cord (PC.C)



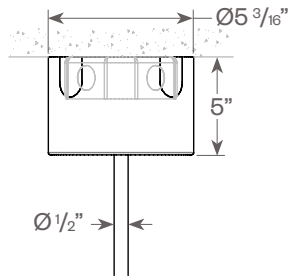
Power Canopy Rigid Stem (PC.RS)



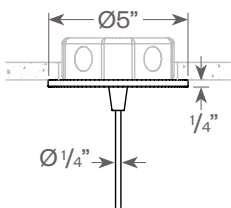
Power Conduit Canopy  
Cord (PCDC.C)



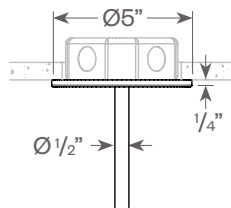
Power Conduit Canopy  
Rigid Stem (PCDC.RS)



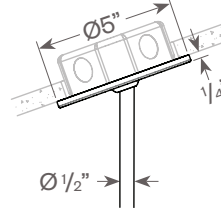
Canopy  
Cord (C.C)



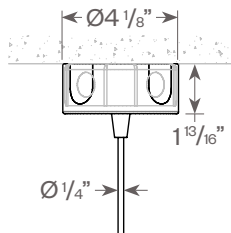
Canopy  
Rigid Stem (C.RS)



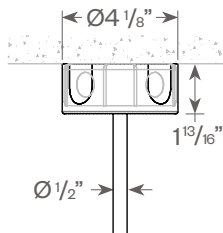
Canopy  
Swivel Stem (C.SS)



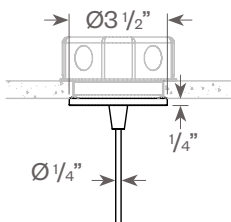
Conduit Canopy Cord (CDC.C)



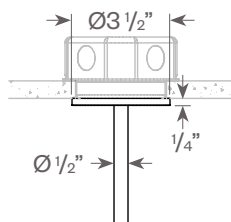
Conduit Canopy Rigid Stem (CDC.RS)



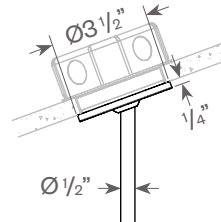
Reduced Canopy  
Cord (RC.C)



Reduced Canopy  
Rigid Stem (RC.RS)



Reduced Canopy  
Swivel Stem (RC.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

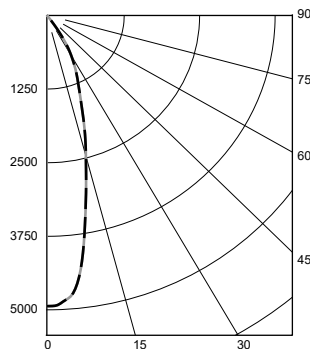
\* Multiplying factors based on an IES 20W tested fixture.  
20W is not available for this fixture type.

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.

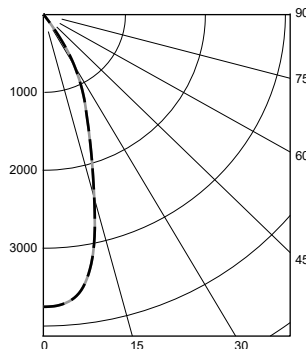
#### 12W LED, 3000K, 80+, Direct

30° Distribution  
LTL #14366195.01  
Lumens: 1,192



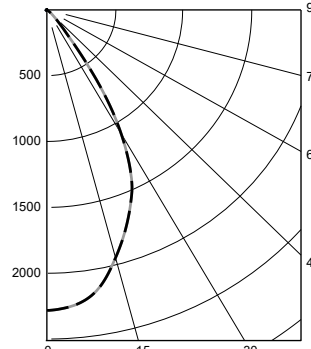
Candelas at Nadir	
Deg	Candela
0	3258
5	3125
15	1559
25	733
35	197
45	14

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

### Application Data:

#### Notes and Definitions:

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

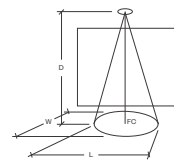
D=Distance to floor or wall.

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.



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



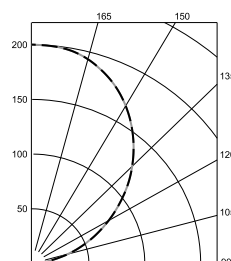
0° Aiming Angle  
Horizontal  
Footcandles

#### 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

#### 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†:

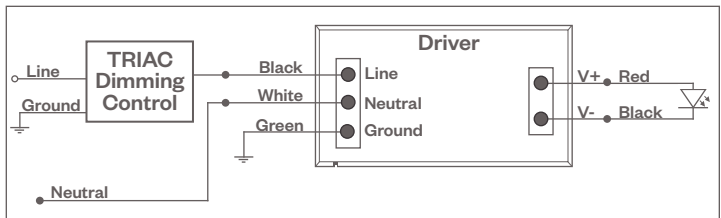
##### Wall Box (TRIAC 120VAC)

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"

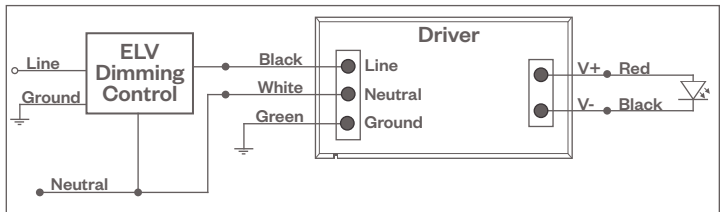
##### Wall Box (ELV 277VAC)

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 ---

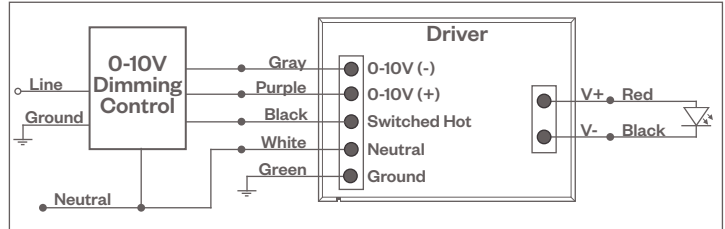
### 0-10V DIMMING

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-TVI Interface

### LUTRON P-SERIES / ECOSYSTEM

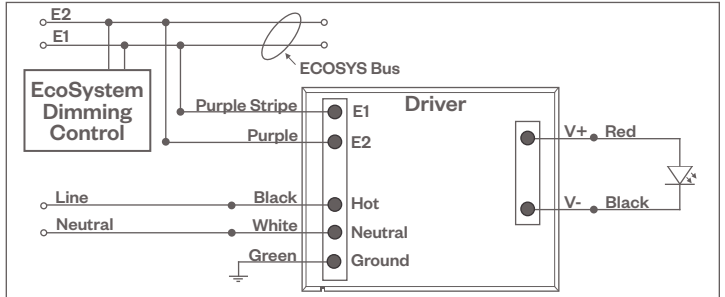
Integrates into Lutron EcoSystem building management

#### 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

#### Compatible Dimmers†:

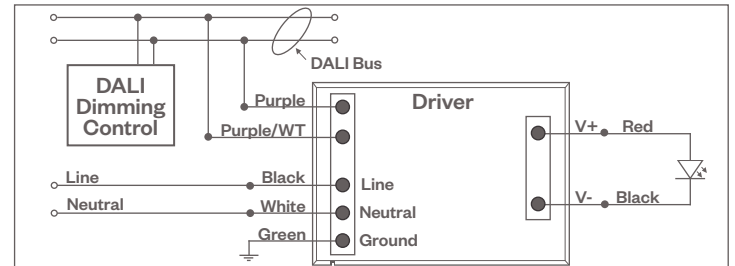
##### Wall Box (3-Wire Fluorescent)

Leviton CD250 Controller

##### Central System

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 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.