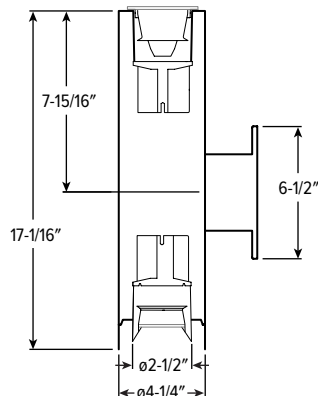


# 4CRDI LED

## 4" Direct/Indirect Cylinder – Round



CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_



ORDERING EXAMPLE: 4CRDI - L12/835U/L12/835D - OPTIONS - WHT - CONTROL/DIM - UNV - OW/LM - CS - TRIM OPTIONS - WM

### HOUSING

SERIES	LUMEN PACKAGE (Example: L12/835U/L9/835D)	OPTIONS	HOUSING FINISH <sup>(1)</sup>	CONTROL	DRIVER	VOLTAGE
4CRDI	Specify lumen packages: <b>U</b> for Up and <b>D</b> for Down <b>LUMENS</b> <sup>(8)</sup> <b>CRI</b> <b>CCT</b> <b>U OR D</b> <b>L9</b> 900lm <b>8</b> 80 <b>27</b> 2700K <b>U</b> Uplight <b>L12</b> 1,200lm <b>9</b> 90 <sup>(9)</sup> <b>30</b> 3000K <b>D</b> Downlight <b>L15</b> 1,500lm <b>35</b> 3500K <b>L20</b> 2,000lm <b>40</b> 4000K <b>50</b> 5000K	<i>See page 3 for EMERGENCY BATTERY OPTIONS.</i> <b>RDB</b> Remote mount control/driver box, painted black <sup>(2)</sup>	<b>ALUM</b> Silver sparkle aluminum <b>BLK</b> Textured black <b>BRZ</b> Textured bronze <b>NKL</b> Textured nickel <b>SLV</b> Textured silver <b>WHT</b> Textured white	<i>See page 5 for ADDITIONAL CONTROL/ DRIVER OPTIONS.</i> None <b>AVI-LVFA</b> Avi-on wireless fixture control <sup>(3)</sup> <b>AWN</b> Lutron Athena wireless node fixture control, RF only <sup>(4)</sup>	<i>See page 5 for ADDITIONAL CONTROL/ DRIVER OPTIONS.</i> <b>DIM</b> Entire fixture switches and dims together <sup>(5)</sup> <b>DIM1</b> 1% Dimming driver, 0-10V <b>DA</b> Driver with 12V auxiliary power, without external dimming wires <sup>(6)</sup>	<b>UNV</b> 120-277V <b>347</b> 347V <sup>(7)</sup>

### TRIM

TRIM TYPE AND DISTRIBUTION <sup>(10)</sup>	REFLECTOR FINISH <sup>(11)</sup>	TRIM OPTIONS
(Example Uplight/Downlight: OW/LM)		
<b>TRIM TYPE</b>	<b>DISTRIBUTION</b>	
<b>Uplight</b>	<b>Uplight</b>	
<b>O</b> Open reflector with clear glass shield <sup>(15)</sup>	<b>W</b> 70° Wide <b>M</b> 40° Medium <b>N</b> 15° Narrow <sup>(16)</sup> <b>S</b> 8° Narrow spot <sup>(17)</sup>	
<b>Downlight</b>	<b>Downlight</b>	
<b>O</b> Open reflector <b>L</b> Flush lens <b>R</b> Regressed lens	<b>W</b> 70° Wide <b>M</b> 40° Medium <b>N</b> 15° Narrow <b>S</b> 8° Narrow spot <sup>(18)</sup>	
	<b>CS</b> Clear semi-specular anodize <b>SG</b> Satin-glow anodize <b>GD</b> Gold anodize <b>CG</b> Champagne gold anodize <b>PW</b> Pewter anodize <b>SPC</b> Clear specular anodize <b>RG</b> Rose gold anodize <b>WH</b> White texture powder coat <b>BL</b> Black texture powder coat	
	<b>Downlight Lens Trim Types</b>	
	<b>CS</b> Clear semi-specular powder coat <b>WH</b> White texture powder coat <b>BL</b> Black texture powder coat <b>BZ</b> Bronze texture powder coat <b>NK</b> Nickel texture powder coat <b>SV</b> Silver texture powder coat <b>AL</b> Silver sparkle aluminum	
	<b>AD</b> Diffuse acrylic lens <sup>(12)</sup> <b>PD</b> Diffuse 1/8" polycarbonate lens <sup>(13)</sup> <b>TD</b> Diffuse polycarbonate lens media at top of open reflector <sup>(14)</sup>	

### MOUNTING

#### MOUNTING TYPE <sup>(19)</sup>

**WM** Wall mount

### NOTES

- See page 4 for HOUSING FINISH DETAILS.
- Painted white available, specify RDB/WHT.
- DA Driver only. Installed in remote box, must specify RDB Option. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- DA Driver only. Installed in remote box, must specify RDB Option.
- Requires 5 conductor cord.
- Avi-on and Lutron Athena Controls only.
- Not available with EM batteries or DA drivers.
- Lumen output based on O Trim Type, W Distribution and CS Reflector Finish, 80CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- Extended lead times may apply. Consult factory for availability.
- Beam angle based on O Trim Type and CS Reflector Finish. Trim Type affects beam angle. See page 2 for FIXTURE PERFORMANCE DATA.
- Specified for Downlight Trim Type only. See page 4 for REFLECTOR FINISH DETAILS.
- Not available with O Trim Type. Downlight only. W distribution only.
- Not available with O Trim Type. Downlight only. W distribution only.
- O Trim Type only. Downlight only.
- CS Reflector Finish standard. Other colors available, consult factory.
- O Trim Type only.
- Not available with L20 lumen package, L Trim Type, or 950 CRI/CCT.
- Not available with L20 lumen package or 950 CRI/CCT.
- See page 4 for MOUNTING DETAILS.



# 4CRDI<sup>LED</sup> 4" Direct/Indirect Cylinder – Round

## FEATURES

- Slim profile for unobtrusive illumination
- Smoothly accent walls and eliminate dark ceilings with direct and indirect lighting
- Parallel the performance and style of the Williams downlight collection
- Superior optical control with beams as narrow as 8° and field changeable optics as wide as 70°
- Complement the architectural elements of any space with a multitude of housing and trim finishes
- Precision-engineered extruded aluminum housing and die-cast aluminum trim face for clean aesthetic
- Open, flush, and regressed lens trim options
- Reflectors create smooth, low-glare radiance
- Wireless in-fixture control solutions available

## SPECIFICATIONS

- HOUSING** – Extruded aluminum with die-cast aluminum accent ring.
- FINISH** – Polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- OPEN REFLECTOR** – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM** – Die-cast aluminum frame with micro-prismatic, acrylic lens.
- ELECTRICAL** – High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>55,000 hours. Reported L90 = 49,000 hours. Estimated L70 = 179,000 hours.
- MOUNTING** – Wall mount. Indoor applications only. Max weight 5-1/2 lbs.
- LISTINGS** –
  - cCSAus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for dry and damp locations.
  - Complies with the Buy American Act and other federal regulations. Request certification at [hew.com/baa](http://hew.com/baa).
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

## FIXTURE PERFORMANCE DATA

		DOWNLIGHT							UPLIGHT			
		WATTAGE	OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS		WATTAGE	OPEN REFLECTOR		
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)		DELIVERED LUMENS	EFFICACY (lm/W)	
L9	DIST.	W	10.7	929	87	973	91	963	90	10.6	760	72
		M	10.7	898	84	958	90	917	86	10.6	734	69
		N	10.7	799	75	950	89	927	87	10.6	653	62
		S	14.1	807	57	1115	79	1075	76	14.0	660	47
L12		W	14.3	1267	89	1327	93	1313	92	14.2	1036	73
		M	14.3	1224	86	1307	91	1250	87	14.2	1001	70
		N	14.3	1000	70	1296	91	1264	88	14.2	818	58
		S	20.4	1071	53	1480	73	1427	70	20.2	876	43
L15		W	17.7	1571	89	1645	93	1628	92	17.5	1285	73
		M	17.7	1518	86	1620	92	1550	88	17.5	1241	71
		N	17.7	1240	70	1607	91	1567	89	17.5	1014	58
		S	26.7	1326	50	1832	69	1767	66	26.5	1084	41
L20		W	23.4	1999	85	2160	92	2138	91	23.2	1687	73
		M	23.4	1931	83	2127	91	2035	87	23.2	1630	70
		N	23.4	1578	67	2110	90	2058	88	23.2	1332	57
		S	—	—	—	—	—	—	—	—	—	—

- Photometrics tested in accordance with IESNA LM-79. Results based on O trim type, W distribution and CS reflector finish, 80 CRI/3500K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- Wattage is for downlight or uplight components. Add wattages together for selected lumen packages to find total fixture wattage.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

## MULTIPLIER TABLES

CCT	CONVERSION FACTOR	REFLECTOR FINISH	
		CATALOG NUMBER	CONVERSION FACTOR
		CS	1.00
2700K	0.92	SG <sup>(1)</sup>	0.92
	0.98	GD	0.93
	1.00	CG	0.96
	1.01	PW	0.86
3000K	0.76	SPC	1.02
	0.79	RG	0.88
	0.82	WH <sup>(1)</sup>	0.89
	0.84	BL <sup>(1)</sup>	0.47
3500K	0.82	WH	1.00
	0.84	CS <sup>(1)</sup>	0.98
	0.88	BL <sup>(1)</sup>	0.79
	0.88	BZ <sup>(1)</sup>	0.76
4000K	0.85	NK <sup>(1)</sup>	0.81
	0.85	SV <sup>(1)</sup>	0.81
	0.85	AL <sup>(1)</sup>	0.86
	0.67		

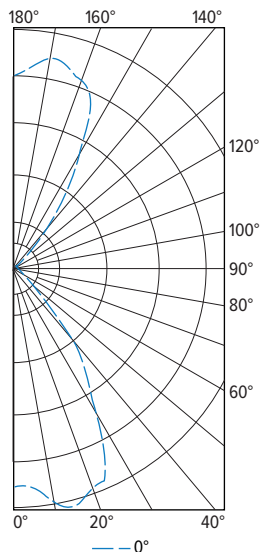
## BEAM ANGLE

	TRIM TYPE		
	OPEN	FLUSH	REGRESSED
W	70°	50°	55°
M	40°	30°	30°
N	15°	20°	20°
S	8°	14°	14°

<sup>1</sup> Distribution will also be affected, consult factory.

## PHOTOMETRY

4CRDI-L12/835U/L12/835D-WHT-DIM1-UNV-OW/OW-CS-WM Total Luminaire Output: 2228 lumens; 28.5 Watts | Efficacy: 78 lm/W | 80 CRI; 3500K CCT

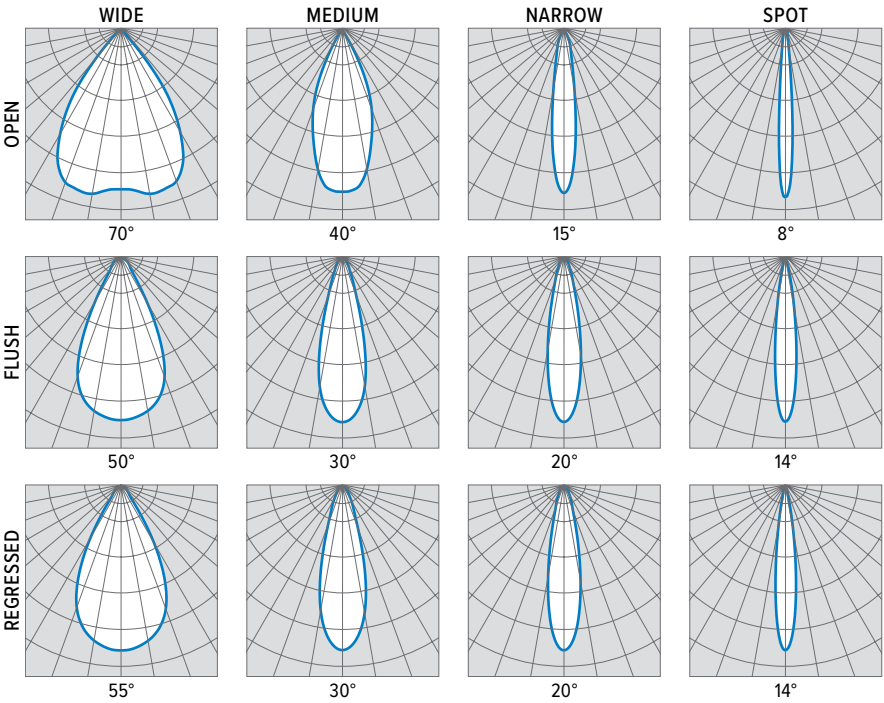


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	948	
	5	959	95
	15	1059	295
	25	917	406
	35	514	306
	45	72	77
	55	19	18
	65	6	7
	75	3	3
	85	2	2
	90	2	
	95	3	3
	105	6	6
	115	13	13
	125	30	28
	135	77	70
	145	370	227
	155	773	339
165	883	249	
175	867	84	
180	826		

LUMEN SUMMARY	TRIM TYPE		% FIXTURE
	ZONE	LUMENS	
	0 - 30	796	36
	0 - 40	1102	49
	0 - 60	1196	54
	0 - 90	1208	54
	90 - 120	23	1
	90 - 150	347	16
	90 - 180	1020	46
	0 - 180	2228	100



# 4CRDI<sup>LED</sup> 4" Direct/Indirect Cylinder – Round



## EMERGENCY BATTERY OPTIONS

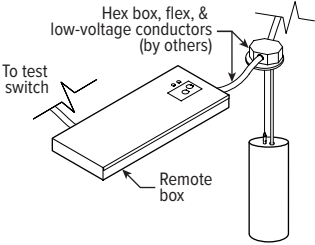
Max remote distance 50', including suspension length. Emergency light defaults to downlight output. Specify CEC in the option code when California Energy Commission regulations are required.

CATALOG NUMBER	DESCRIPTION
EM/7WRM	Remote mount 7-watt emergency battery
EM/7WRM/RTS	Remote mount 7-watt emergency battery with regressed test switch <sup>[1]</sup>
EM/10WRM	Remote mount 10-watt emergency battery
EM/10WRM/RTS	Remote mount 10-watt emergency battery with regressed test switch <sup>[1]</sup>
EM/12WRM	Remote mount 12-watt emergency battery <sup>[2]</sup>
EM/12WRM/RTS	Remote mount 12-watt emergency battery with regressed test switch <sup>[1]</sup> <sup>[2]</sup>

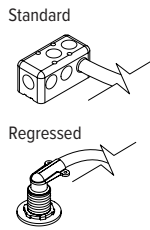
<sup>1</sup> For use in grid ceiling installations only.

<sup>2</sup> Not available when CEC regulations are required.

## RDB OPTION DETAILS



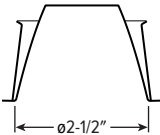
## TEST SWITCH DETAILS



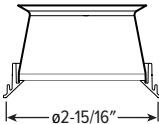
## TRIM TYPE DETAILS

### DOWNLIGHT

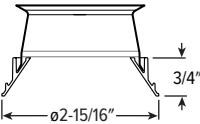
#### OPEN



#### FLUSH

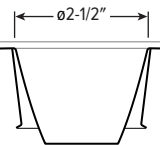


#### REGRESSED



### UPLIGHT

#### OPEN



H.E. Williams, Inc.

Carthage, Missouri

www.hew.com

417-358-4065

Designed and Manufactured in the USA

Information contained herein is subject to change without notice.

REV.01/26/24.JL

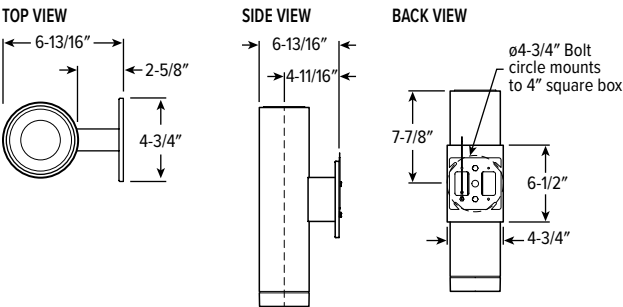
Cylinders  
Page 3 of 5

# 4CRDI<sup>LED</sup>

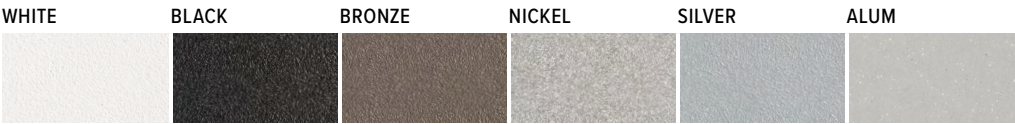
## 4" Direct/Indirect Cylinder – Round

### MOUNTING DETAILS

Mounts to 4" square J-box



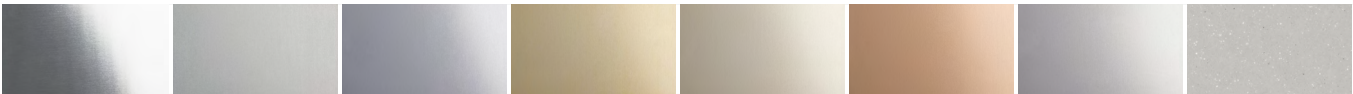
### HOUSING FINISH DETAILS



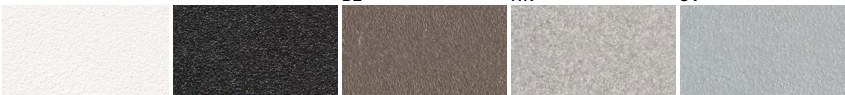
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

### REFLECTOR FINISH DETAILS

Smooth Finish  
SPC



Textured Finish  
WH



SEE NEXT PAGE FOR CONTROL DETAILS



# 4CRDI<sup>LED</sup> 4" Direct/Indirect Cylinder – Round

## AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

### FEATURES

#### Simple

- Gateway-free distributed control
- Factory pre-commissioning
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

#### Scalable

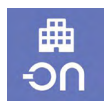
- Virtually unlimited network size
- Spans small offices to large warehouses
- Flexible control strategies

#### Secure

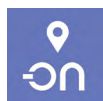
- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

### COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.



Commissioning Mobile App

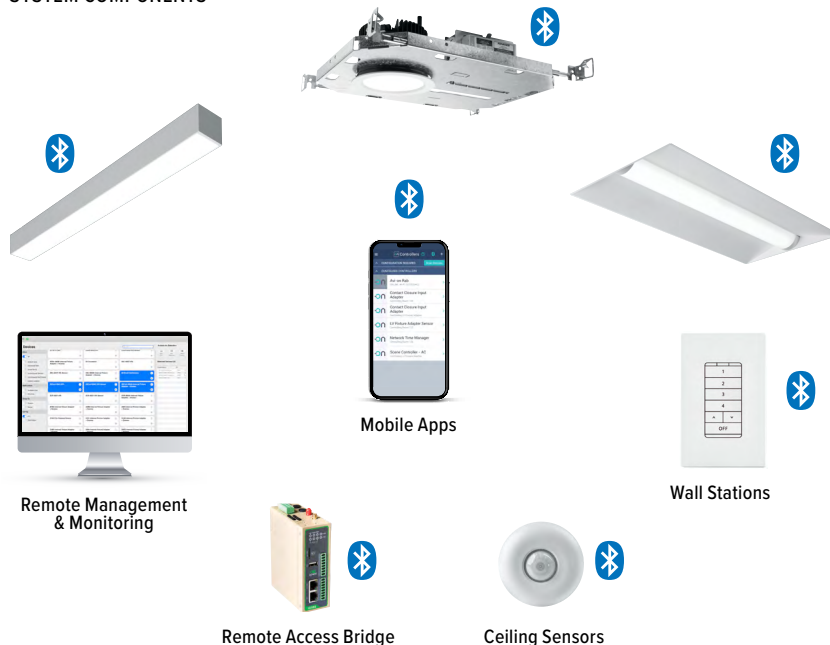


Zone Scanner Web App



Commissioning Pro App

### SYSTEM COMPONENTS



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### ACCESSORIES

WALL STATIONS	
AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC
AVI-2402BAT	Scene controller - numbered 1-4, battery powered
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered
AVI-2401AC-3	On/off/dimming, 120-277VAC
AVI-2402BAT-3	On/off/dimming, battery powered

NETWORK	
AVI-RAB-LTE	Remote access bridge
AVI-KIT-NTM	Network time manager with battery backup
CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

For load controllers and additional accessory info, see [hew.com/avi-on](http://hew.com/avi-on)

### ADDITIONAL CONTROL/DRIVER OPTIONS

Lumen restrictions apply: Avi-on, Lutron Athena controls and DMX, DALI, LDE1 drivers installed in remote box, must specify RDB Option.

CATALOG NUMBER	DESCRIPTION
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power. Up and down switch together.
AVI-LVFA/DA-U/D	Avi-on wireless fixture control for use with driver with 12V auxiliary power. Up and down switch separately.
AWN/DA	Lutron Athena wireless node fixture control, RF only, for use with driver with 12V auxiliary power. Up and down switch together.
AWN/DA-U/D	Lutron Athena wireless node fixture control, RF only, for use with driver with 12V auxiliary power. Up and down switch separately.
DIM	Dimming driver prewired for 0-10V low voltage applications; entire fixture switches and dims together
DIMU/DIMD	Dimming driver prewired for 0-10V low voltage applications; up and down portions switch and dim separately
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM1U/DIM1D	1% dimming driver prewired for 0-10V low voltage applications; up and down portions switch separately
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM LINEU/DIM LINED	Line voltage switching and line voltage dimming; up and down portions switch separately
DMX	0.1% dimming driver for DMX controls
DMX/DMX	0.1% dimming driver for DMX controls; up and down portions switch separately
DALI	DALI dimming driver
DALI/DALI	DALI dimming driver; up and down portions switch separately
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
LDE1/LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver; up and down portions switch separately

### RDB OPTION DETAILS

