AX2UD LED
2″ Suspended Architectural Up/Down

Williams

3-13/16″

2-3/16″

CATALOG #: _____

TYPE: _____

PROJECT: _____

BAA & BABA COMPLIANT

FEATURES

- Sleek, slim architectural design provides direct or indirect light
- Slightly wrapped lens creates glowing edge and smooth illumination
- Attractive source of direct and indirect lighting for use in offices, hallways, conference rooms and medical facilities
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – Extruded aluminum.
- SHIELDING – Frosted acrylic lens.
- FINISH – Matte, smooth silver sparkle (ALUM) standard. All other colors default to textured 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.
- ELECTRICAL – High-quality mid-power LED boards. L70 at 60,000 hours per IES TM-21. 50/60 Hz constant current driver.
- MOUNTING – Suspended. 1/16″ diameter adjustable steel leveling aircraft cable and mounting hardware necessary for grid ceiling applications provided.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

ORDERING EXAMPLE: AX2UD - 4 - L33/835U/L33/835D - S - AC/D48 - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES	LENGTH	LUMEN PACKAGE (EXAMPLE: L33/835U/L33/835D)				FIXTURE TYPE
AX2UD	4 4′	Specify lumen packages: **U** for Uplight and **D** for Downlight				**F** Electrical feeder unit [1]
	8 8′					**J** Joiner unit [2]
		LUMENS [4]	**CRI**	**CCT**	**U or D**	**S** Stand-alone unit [3]
		4′	**8** 80	**27** 2700K	**U** Uplight	
		L16 1,600lm	**9** 90	**30** 3000K	**D** Downlight	
		L24 2,400lm		**35** 3500K		
		L33 3,300lm		**40** 4000K		
		8′		**50** 5000K		
		L33 3,300lm				
		L50 5,000lm				
		L66 6,600lm				

MOUNTING (EXAMPLE: AC/D48) [5]			OPTIONS [6]	
Prefix	**Type**	**Length**	*See page 3 for FINISH OPTIONS.*	
AC/	**D** 1″ grid & hardpan	**24** 24″	**EM/10WRM**	Remote mount 10-watt emergency battery
	N 9/16″ grid	**48** 48″	**EM/10WRM/RTS**	Remote mount 10-watt emergency battery with regressed test switch
	S Slot grid	**96** 96″	**(L__)**	Additional lower lumen packages available [7] Example: 3,000 nominal lumens = AX2UD-4-L33/835U/L33/835D-S-**(L30)**

CONTROL [8]		DRIVER [9]		VOLTAGE	
See page 5 for ADDITIONAL CONTROL OPTIONS.		*See page 5 for ADDITIONAL DRIVER OPTIONS.*		**120** 120V	
–	None	**DIM**	Driver with external 0-10V dimming wires. Up and down switch and dim together	**277** 277V	
AVI-LVFA	Avi-on wireless fixture control. [10]			**UNV** 120-277V	
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor. [11]	**DRV**	Driver without external dimming wires. Up and down switch together		
AWNR	Lutron Athena wireless node integral fixture control, RF only [12]	**DA**	Driver with 12V auxiliary power, without external dimming wires. Up and down switch together [14]		
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing [13]	**DSR**	Sensor-ready driver without external dimming wires (D4i DALI-2). Up and down switch together [15]		

NOTES

[1] 3-conductor straight white cord standard. Wire gauge to be determined by row length, quick-connect wiring harness, two end plates, field installed.

[2] No cord, quick-connect wiring harness, no end plates.

[3] 3-conductor straight white cord standard, two end plates installed.

[4] Lumens based on 80 CRI/3500K CCT. Actual performance may vary +/-5%. Additional lumen packages available, see options.5 See page 2 for MOUNTING DETAILS.

[6] Remote EM batteries: max remote distance 50′, including suspension length. Large remote box provided. Specify CEC in the option code when California Energy Commission regulations are required. See page 3 for REMOTE MOUNT BATTERY DETAILS.

[7] Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.

[8] Sensor recommended for use in downlight orientation only. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 3 for SENSOR & NODE PLACEMENT DETAILS.

[9] Not available with DIMU/DIMD.

[10] DA Driver only.

[11] DA Driver only.

[12] DA and DSR Drivers only.

[13] DA and DSR Drivers only.

[14] Avi-on and Lutron Athena Controls only.

[15] Lutron Athena Controls only.

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WATTAGE DETAILS

LED PACKAGE		TOTAL WATTS
UP	DOWN	
L16	L16	32
L24	L24	48
L33	L33	84
L50	L50	124
L66	L66	166

PHOTOMETRY

AX2UD-4-L33/835U/L33/835D-S-UNV Total Luminaire Output: 6618 lumens; 82.9 Watts | Efficacy: 79.9 lm/W | 84 CRI; 3478K CCT

CANDLEPOWER DISTRIBUTION
— 0° - - - 45° — 90°
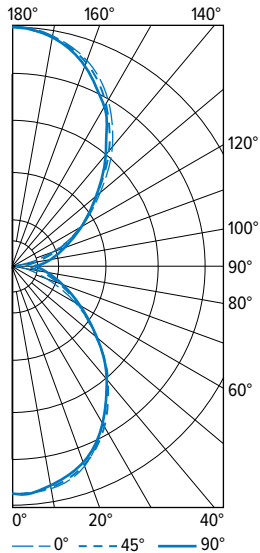
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1297	1297	1297	
5	1315	1286	1277	123
15	1256	1243	1231	351
25	1131	1115	1106	518
35	935	938	922	587
45	712	719	710	556
55	489	517	512	460
65	288	336	353	329
75	125	191	231	199
85	30	93	145	101
90	6	64	120	
95	43	113	177	122
105	177	215	260	229
115	346	359	375	358
125	552	534	541	484
135	766	739	719	577
145	984	955	937	601
155	1163	1144	1119	531
165	1290	1283	1270	364
175	1351	1355	1342	129
180	1357	1357	1357	

	ZONE	LUMENS	% FIXTURE
LUMEN SUMMARY	0 - 30	993	15
	0 - 40	1580	24
	0 - 60	2595	39
	0 - 90	3224	49
	90 - 120	709	11
	90 - 150	2370	36
	90 - 180	3394	51
	0 - 180	6618	100

MOUNTING DETAILS

SIDE VIEW
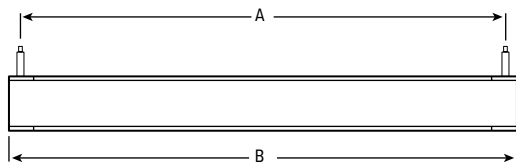
NOMINAL LENGTH	MOUNTING LENGTH (A)	ACTUAL LENGTH (B)
4′	46-13/16″	48-1/16″
8′	89-7/8″	91-1/8″

CONTINUOUS ROW FIXTURES

Suspension Cable Mount

Continuous Row Bracket
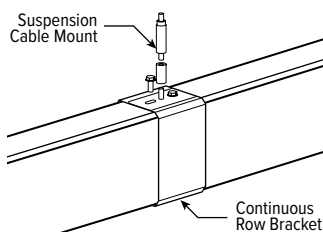
When row mounting fixtures, joint between fixtures will be visible at 4′ or 8′ intervals depending on fixture length.

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)

Power End or Stand-Alone
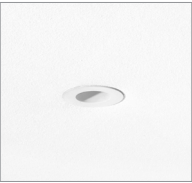
Row Mount Support
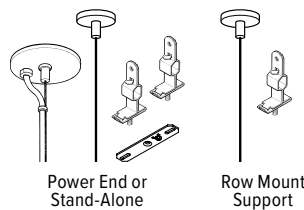
Notes:

- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.

- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.

- The feeder kits are standard with a 5″ canopy to cover the junction box and a 2″ canopy at the non-feed point. No J-box is required at non-feed points.

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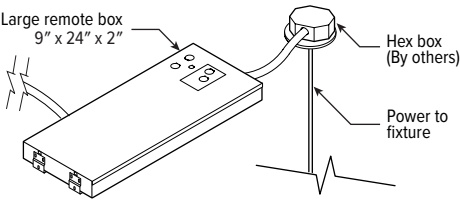## REMOTE MOUNT BATTERY DETAILS
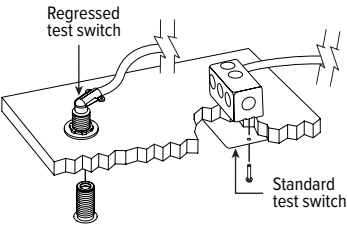
EM/10WRM/RTS

Regressed test switch
ø1-3/4″

EM/10WRM

Standard test switch
2-3/4″ x 4-1/2″

Max remote distance is 50′ including suspension length, connection by others.

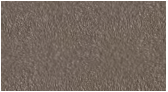Regressed test switch

Standard test switch

Large remote box 9″ x 24″ x 2″

Hex box (By others)

Power to fixture

FINISH OPTIONS
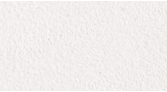
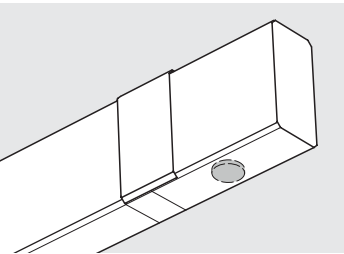| WHITE	BLACK	BRONZE	NICKEL	SILVER	ALUM

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.

SENSOR & NODE PLACEMENT DETAILS

SEE NEXT PAGE FOR CONTROL DETAILS.

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AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple
- Gateway-free distributed control
- 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.
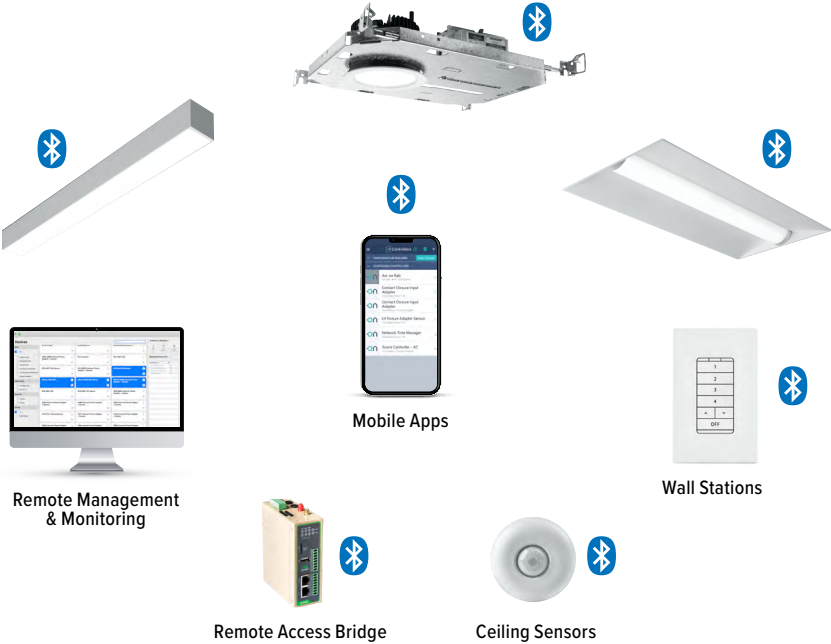
Commissioning Mobile App

Zone Scanner Web App

Commissioning Pro App

SYSTEM COMPONENTS

Mobile Apps

Remote Management & Monitoring

Wall Stations

Remote Access Bridge

Ceiling Sensors

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ACCESSORIES

WALL STATIONS

AVI-B-2401AC-1	Scene controller - buttons numbered 1-4 and up/down/off, 120-277VAC
AVI-B-2402BAT-1	Scene controller - buttons numbered 1-4 and up/down/off, battery powered
AVI-B-2401AC-2	Dimmer with presets - buttons with percentages and up/down/off, 120-277VAC
AVI-B-2402BAT-2	Dimmer with presets - buttons with percentages and up/down/off, battery powered
AVI-B-2401AC-3	Two button control on/off or hold to dim up/down, 120-277VAC
AVI-B-2402BAT-3	Two button control on/off or hold to dim up/down, battery powered

NETWORK

AVI-RAB-LTE	Remote access bridge
AVI-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

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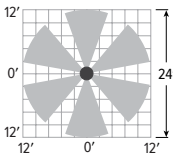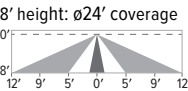## AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

SPECIFICATIONS

TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8′ – 10′
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 50°C
RELATIVE HUMIDITY	10 to 80% non-condensing
IP RATING	IP20
MANUFACTURER	Avi-On

SENSOR COVERAGE PATTERNS

Side View
8′ height: ø24′ coverage

0′
8′
12′ 9′ 5′ 0′ 5′ 9′ 12′

12′
0′   24′
12′
12′   0′   12′

SENSOR DETAIL

Dimensions: 13/16″ x 2-1/4″

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ADDITIONAL CONTROL OPTIONS

AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

SPECIFICATIONS	
TYPE	Radio Frequency
MOUNTING HEIGHT	8′ – 12′
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	Clear Connect gateway – Type X with app (iOS or Android)
MANUFACTURER	Lutron
	☀LUTRON

SENSOR COVERAGE PATTERNS

9′ height: ø12′ coverage

0′

9′

13′ 9′ 6′ 3′ 0′ 3′ 6′ 9′ 13′
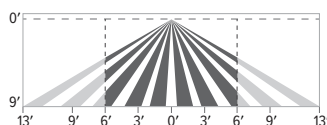
Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8′	114
9′	144
10′	178
12′	256

SENSOR DETAIL

Dimensions: ø1-1/8″

ATHENA CONTROL OPTIONS

CATALOG NUMBER	DESCRIPTION
AWNR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNR-BL	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish.
AWNS-BL	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish.

ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DRV	Driver without external dimming wires prewired for non-dimming applications; entire fixture switches together
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications; entire fixture switches and dims together
DRVU/DRVD	Driver without external dimming wires prewired for non-dimming applications; up and down portions switch separately
DRVU/DIMD	Driver without external dimming wires prewired for non-dimming applications; up and down switch separately; external dimming wires on down portion only
DIMU/DRVD	Up and down portions switch separately; driver with external dimming wires prewired for 0-10V low voltage applications on up portion only
DRVDIMU	Entire fixture switches together; driver with external dimming wires prewired for 0-10V low voltage applications on up portion only
DRVDIMD	Entire fixture switches together; driver with external dimming wires prewired for 0-10V low voltage applications on down portion only
DIM1	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V only)
DIM LINEU/DIM LINED	Line voltage switching and line voltage dimming; up and down portions switch separately
DIM LINEU/DRVD	Up and down portions switch separately; line voltage dimming on up portion only
DRVU/DIM LINED	Up and down portions switch separately; line voltage dimming on down portion only
DA	Driver with 12V auxiliary power, without external dimming wires. Up and down switch together.
DA-U/D	Driver with 12V auxiliary power, without external dimming wires. Up and down switch separately.
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2). Up and down switch together.
DSR-U/D	Sensor-ready driver without external dimming wires (D4i DALI-2). Up and down switch separately.

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