

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

Type: \_\_\_\_\_

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

## FEATURES

- Complementary to Williams' AIW Series, the decorative and versatile AI3 provides functional indirect illumination
- Non-perforated housing or 33% open perforation beneath LEDs offers choice of appearance
- Translucent matte white acrylic over perforations provides uniform, luminous effect
- Die-formed, decorate end caps
- 90° corners available
- Maximize energy savings with efficacies as high as 125 lm/W
- Driver and wireway assembly remove for easy maintenance
- Self-aligning joining method ensures straight rows
- Wireless in-fixture control solutions available
- Made Right Here® in the USA



ORDERING EXAMPLE: AI3 P33 - 4 - L27/835 - AC/D48 - OPTIONS - CONTROL/DIM - UNV

## ORDERING INFO

SERIES	PERFORATION OPTIONS <sup>[1]</sup>	LENGTH	LUMENS <sup>[2]</sup>	CRI	CCT
AI3	P33 33% open perforation with 2 matte white acrylic overlay strips	Stand-alone – 4' & 8' nominal lengths, fixture ships assembled. Example: 4 = 4'	L16 1,600lm L27 2,700lm	8 80 9 90 <sup>[3]</sup>	27 2700K 30 3000K 35 3500K 40 4000K 50 5000K
	P33F 33% open perforation, full	Row-mount – Lengths specified in 4' increments Example: 12 = 12'			
	SLD Solid bottom				

### PRODUCT BUILDER

Simplify ordering & layout design with the Williams Linear Product Builder at [hew.com/product-builder](http://hew.com/product-builder)

## MOUNTING (EXAMPLE: AC/D48) <sup>[4]</sup>

Prefix	Type	Length
AC/	D 1" grid & hardpan	24 24"
	N 9/16" grid	48 48"
	S Slot grid	96 96"

## OPTIONS <sup>[5]</sup>

EM/10WLP	Low-profile, 10-watt emergency battery <sup>[6]</sup>
AI390	Corner assembly <sup>[7]</sup>
(L__)	Additional lower lumen packages available <sup>[8]</sup> Example: 2500 lumens = AI3P33-4-L27/835-(L25)

## SPECIFICATIONS

- HOUSING – 20-gauge die-formed, welded C.R.S.
- REFLECTIVE SURFACES – 92% minimum average reflective white polyester powder coat on interior steel components.
- SHIELDING – Die-formed C.R.S. white polyester powder coated diffuser. Frosted acrylic.
- FINISH – Textured matte white polyester TGIC 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. See fixture performance data for lumen maintenance.
- 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.
  - 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).

## CONTROL <sup>[9]</sup>

See page 5 for ADDITIONAL CONTROL OPTIONS.

–	None
AVI-LVFA	Avi-on wireless fixture control <sup>[10]</sup>
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor <sup>[11]</sup>
AWNRR	Lutron Athena wireless node integral fixture control, RF only <sup>[12]</sup>
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing <sup>[13]</sup>

## DRIVER

See page 6 for ADDITIONAL DRIVER OPTIONS.

DIM	Driver with external dimming wires	120 120V
DRV	Driver without external dimming wires	277 277V
DA	Driver with 12V auxiliary power, without external dimming wires <sup>[14]</sup>	UNV 120-277V
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2) <sup>[15]</sup>	347 347V <sup>[16]</sup>

## VOLTAGE

## NOTES

- See page 2 for PERFORATION OPTIONS DETAILS.
- Lumens per foot output based on P33F perforation and 80 CRI/3500K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
- Extended lead times may apply. Consult factory for availability.
- See page 3 for MOUNTING DETAILS.
- See page 3 for FINISH OPTIONS. Custom colors available upon request.
- Minimum 4' row.
- Ordered separately. See page 2 for CORNER ASSEMBLY DETAIL.
- (L8) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.

- See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 3 for SENSOR & NODE PLACEMENT DETAILS.
- DA Driver only.
- DA Driver only.
- DA and DSR Drivers only.
- DA and DSR Drivers only.
- Avi-on and Lutron Athena Controls only.
- Lutron Vive and Athena Controls only.
- Not available with EM batteries, DA, or DSR drivers.



## FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	LUMEN MAINTENANCE		
					L80	L85	L90
4"	L16	6468	52.6	123	>72000	58,000	36,000
	L27	10904	86.9	125	>72000	58,000	36,000
8"	L16	12814	102.6	125	>72000	58,000	36,000
	L27	21807	173.8	125	>72000	58,000	36,000

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on P33F perforation and 3500K, 80 CRI, actual performance may vary +/-5%
- Predicted lumen maintenance calculated from LED manufacturer IES LM-80 data and In situ temperature measurement.
- Predicted lumen maintenance calculated in accordance with IES TM-21 per Energy Star (R) TM-21 Calculator rev. 02.08.16.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

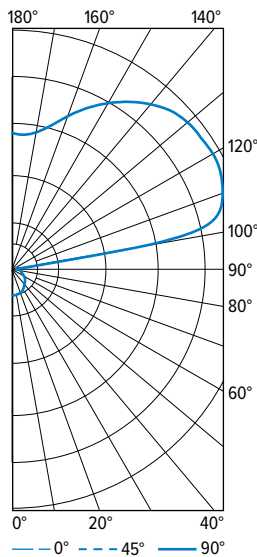
## MULTIPLIER TABLES

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.97
	3000K	0.99
	3500K	1.00
	4000K	1.03
	5000K	1.06
90 CRI	2700K	0.80
	3000K	0.82
	3500K	0.83
	4000K	0.86
	5000K	0.89

SHIELDING	
CATALOG NUMBER	CONVERSION FACTOR
P33F	1.00
P33	0.98
SLD	0.95

## PHOTOMETRY

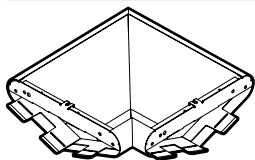
AI3P33F-4-L27/835-DIM-UNV Total Luminaire Output: 10904 lumens; 86.9 Watts | Efficacy: 125.4 lm/W | 80 CRI; 3500K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	310	310	310	
5	316	307	304	29
15	299	292	291	83
25	267	265	271	122
35	223	225	233	141
45	168	177	189	137
55	108	128	146	113
65	48	82	101	78
75	17	45	68	47
85	5	24	43	29
90	11	20	34	
95	119	476	130	606
105	387	1962	2417	1770
115	672	2093	2611	1890
125	929	2167	2599	1770
135	1134	2089	2530	1517
145	1293	1945	2316	1172
155	1416	1744	2011	800
165	1510	1582	1681	453
175	1553	1539	1523	147
180	1533	1533	1533	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	234	2
	0 - 40	375	3
	0 - 60	626	6
	0 - 90	779	7
	90 - 120	4265	39
	90 - 150	8725	80
	90 - 180	10125	93
	0 - 180	10904	100

## CORNER ASSEMBLY DETAIL



## PERFORATION OPTIONS DETAILS

P33F



P33

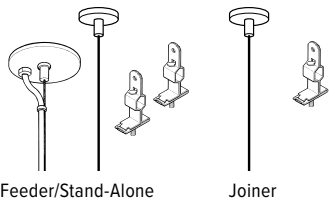


SLD



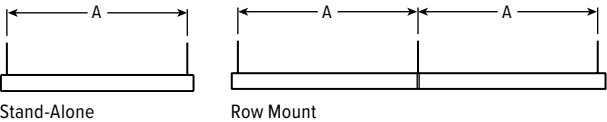
MOUNTING DETAILS

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



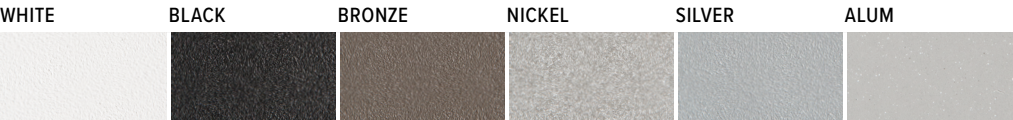
- Notes:
- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
  - Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
  - The feeder kits are standard with a 5" canopy to cover the junction box and a 2" canopy at the non-feed point. No J-box is required at non-feed points.

CENTER-TO-CENTER MOUNTING



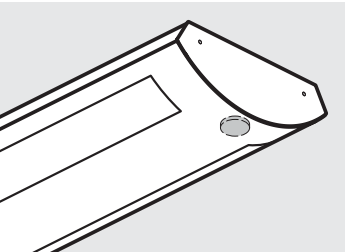
DIMENSION A	
4'	48"
8'	96"

FINISH OPTIONS



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.

## 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

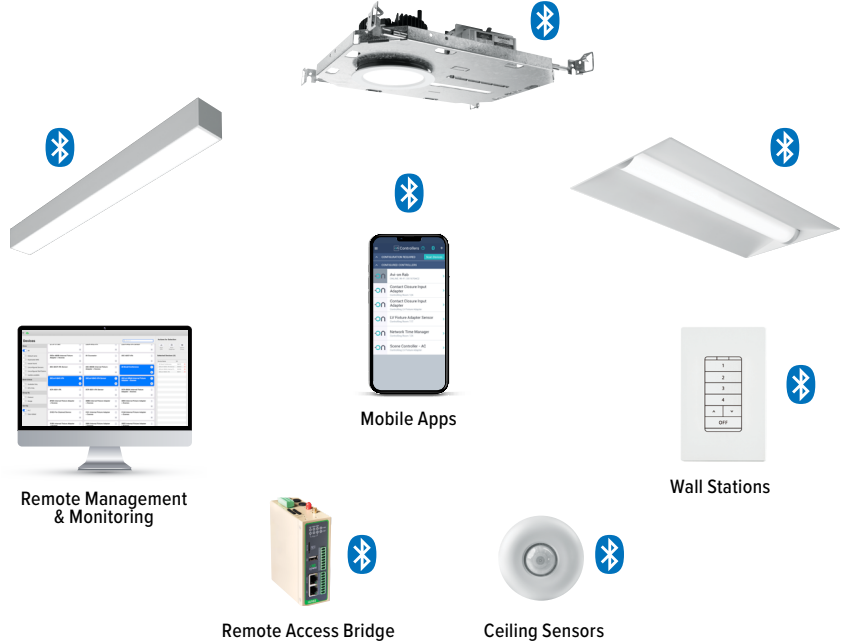


Zone Scanner Web App



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 – LTE connection
AVI-2001RAB-01-C	Remote access bridge – Wifi connection
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)

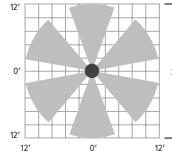
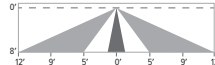
### AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

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



### SENSOR DETAIL



Dimensions: 13/16" x 2-1/4"



## ADDITIONAL CONTROL OPTIONS

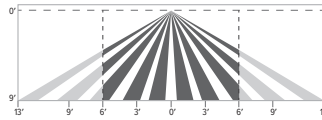
**AWNS** Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

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



### SENSOR COVERAGE PATTERNS

9' height: ø12' coverage



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

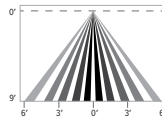
CATALOG NUMBER	DESCRIPTION
AWNDR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary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

**VDO** Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC). DSR or LDE Drivers only. LDE drivers require driver interface

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)
MANUFACTURER	Lutron

### SENSOR COVERAGE PATTERNS

9' height: ø12' coverage



Motion Sensor Coverage

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

### SENSOR DETAIL



Dimensions: 2-11/16" x 1"

## VIVE CONTROL OPTIONS

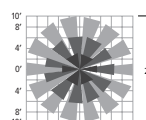
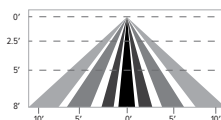
CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver
VDO/DBI	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver

**OCCWS-FS-305-L6-PP-120/277** Wattstopper PIR motion and daylight hold off sensor with power pack, 120/277V

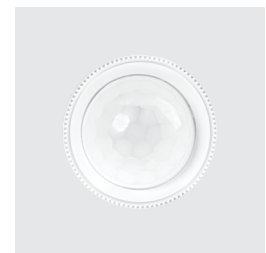
SPECIFICATIONS	
TYPE	PIR Motion + Daylight Hold Off
MOUNTING HEIGHT	8'
LENS	Indoor, non-wet location use
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 55°C
RELATIVE HUMIDITY	5% to 95%, non-condensing
COMMISSIONING	Dials under lens

### SENSOR COVERAGE PATTERNS

8' height: ø20' coverage



### SENSOR DETAIL



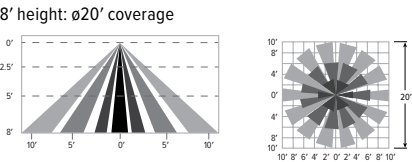
Dimensions: ø1-5/16"



OCCWS-LMFS-601-PP-120/277 Wattstopper PIR motion and daylight sensor with power pack, 120/277V

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
LENS	Up to 300 sq/ft coverage
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 50°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)

SENSOR COVERAGE PATTERNS



SENSOR DETAIL



Dimensions: ø1-5/16"

ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at [hew.com/product-builder](http://hew.com/product-builder).

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver 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)
DA	Driver with 12V auxiliary power
DSR	Sensor-ready driver (D4i DALI-2)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver