AI3 LED
Architectural Indirect

Williams®

2-7/8"
9"

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
- Available with Avi-on wireless fixture controls
- Made Right Here® in the USA

BUY AMERICAN ACT COMPLIANT

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.
- **WARRANTY** – 5-year limited warranty, see hew.com/warranty.

avi-on®
Bluetooth® Lighting Controls

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

ORDERING INFO

SERIES	PERFORATION OPTIONS [1]		LENGTH	LUMENS [2]		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	8	80	27	2700K
	P33F	33% open perforation, full	**Row-mount** – Lengths specified in 4' increments Example: **12** = 12'	L27	2,700lm	9	90 [3]	30	3000K
	SLD	Solid bottom						35	3500K
			PRODUCT BUILDER Simplify ordering & layout design with the Williams Linear Product Builder at hew.com/product-builder					40	4000K
								50	5000K

MOUNTING (EXAMPLE: AC/D48) [4]

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

OPTIONS [5]

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

CONTROL [9]

–	None
AVI-LVFA	Avi-on wireless fixture control [11]
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor [12]
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) [13]
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) [14]

DRIVER [10]

DIM	Driver with external dimming wires
DRV	Driver without external dimming wires
DA	Driver with 12V auxiliary power, without external dimming wires [15]
DSR	Sensor-ready driver [16]

VOLTAGE

120	120V
277	277V
UNV	120-277V
347	347V [17]

NOTES

1. See page 2 for PERFORATION OPTIONS DETAILS.
2. Lumens per foot output based on P33F perforation and 80 CRI/3500K CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
3. Extended lead times may apply. Consult factory for availability.
4. See page 3 for MOUNTING DETAILS.
5. See page 3 for FINISH OPTIONS. Custom colors available upon request.
6. Minimum 4' row.
7. Ordered separately. See page 2 for CORNER ASSEMBLY DETAIL.
8. (L8) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
9. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 3 for SENSOR PLACEMENT DETAILS. See page 5 for ADDITIONAL CONTROL OPTIONS.
10. See page 5 for ADDITIONAL DRIVER OPTIONS.
11. DA Driver only.
12. DA Driver only.
13. DSR or LDE Drivers only. LDE drivers require driver interface.
14. DSR or LDE Drivers only. LDE drivers require driver interface.
15. Avi-on Controls only.
16. VDO and VRF Controls only.
17. Not available with EM batteries or Avi-on Controls.

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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
4'	L27	10904	86.9	125	>72000	58,000	36,000
8'	L16	12814	102.6	125	>72000	58,000	36,000
8'	L27	21807	173.8	125	>72000	58,000	36,000

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25ºC ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on P33F perforation and 3500K, 80 CRI, actual lumens 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

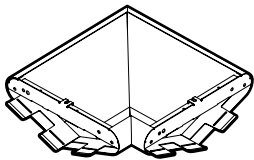**AI3P33F-4-L27/835-DIM-UNV** Total Luminaire Output: 10904 lumens; 86.9 Watts | Efficacy: 125.4 lm/W | 80 CRI; 3500K CCT

CANDLEPOWER DISTRIBUTION
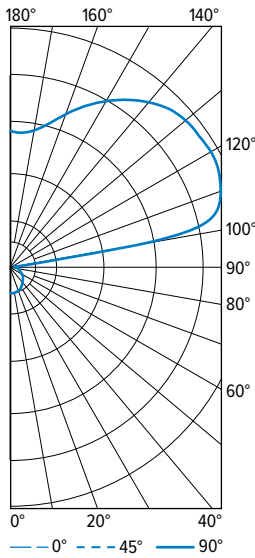
— 0° - - - 45° — 90°

| VERTICAL ANGLE | HORIZONTAL ANGLE | | | ZONAL LUMENS |
	0º	45º	90º	
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	

	ZONE	LUMENS	% FIXTURE
LUMEN SUMMARY	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

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MOUNTING DETAILS

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)

Feeder/Stand-Alone   Joiner
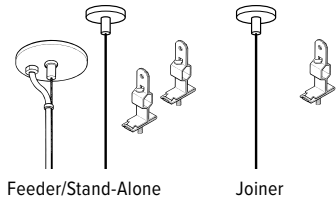
Notes:

- 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

Stand-Alone   Row Mount
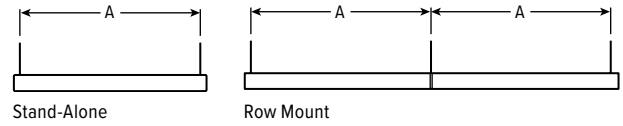
DIMENSION A	
4'	48"
8'	96"

FINISH OPTIONS

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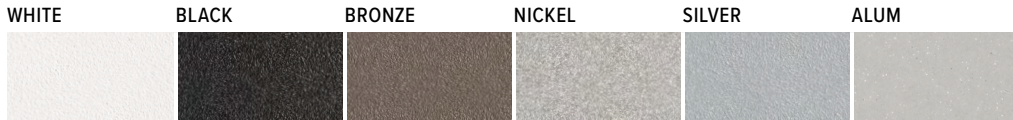
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

SENSOR PLACEMENT DETAILS
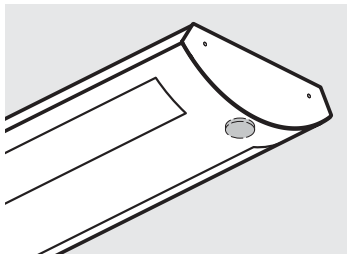
SEE NEXT PAGE FOR CONTROL DETAILS.

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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

DIGITAL INSTALLATION TOOLS

Avi-On mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers.

Commissioning Mobile App

Zone Scanner Web App

Commissioning Pro App

SYSTEM COMPONENTS

Mobile Apps

Remote Management & Monitoring

Wall Stations

Remote Access Bridge

Ceiling Sensors
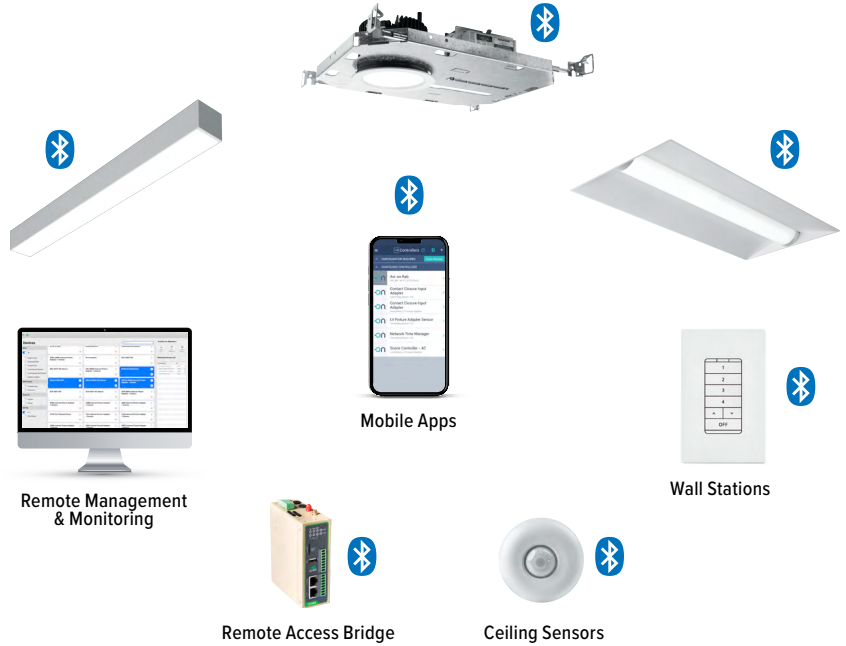
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ACCESSORIES

WALL STATIONS	
AVI-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

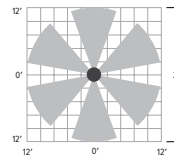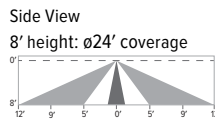| CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

For load controllers and additional accessory info, see hew.com/avi-on

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

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SENSOR COVERAGE PATTERNS

Side View
8' height: ø24' coverage

SENSOR DETAIL

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

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ADDITIONAL CONTROL OPTIONS

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
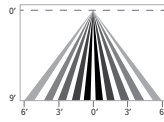
Motion Sensor Coverage

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

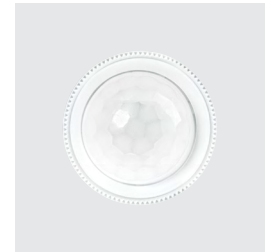## OCCWS-FS-305-L6-PP-120/277 Wattstopper PIR motion and daylight hold off sensor with power pack, 120/277V

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
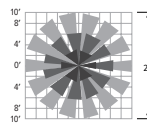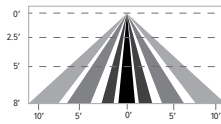
SENSOR DETAIL

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

8' height: ø20' coverage
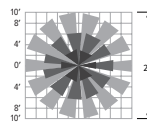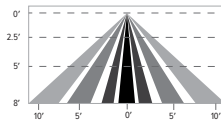
SENSOR DETAIL

Dimensions: ø1-5/16"

ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at 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	Dimming driver with 12V auxiliary
DSR	Sensor-ready driver
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver

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