PTS LED
Shallow Surface Mount

Williams®

CATALOG #: _____

TYPE: _____

PROJECT: _____

2-7/16″

24-1/2″

2x2 | 2x4
Shown with RA lens

BAA & BABA COMPLIANT

FEATURES

- Slim fixture depth for low-profile surface mount
- Uniform ambient illumination
- Round or square diffuse ribbed acrylic lens options enhance the space
- Companion recessed and retrofit kit preserve continuity, see hew.com
- HE option delivers superior efficacies up to 169 lm/W
- Heavy duty C.R.S. construction
- Optional anti-microbial finish suppresses the spread of dangerous micro-organisms, mold, and bacterial growth
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- **HOUSING** – Precision die-formed 20-gauge C.R.S.
- **REFLECTOR** – Precision die-formed 22-gauge C.R.S. Highly reflective non-glare matte white polyester powder coat.
- **SHIELDING** – Diffuse ribbed 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. L70 > 72,000 hours per IES TM-21. L80 > 102,000 hours with HE option. 50/60 Hz constant current driver.
- **MOUNTING** – Surface or suspended.
- **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: PTS - 2 4 - L84/835 - RA - OPTIONS - CONTROL/DIM - UNV

SERIES	WIDTH	LENGTH	LUMENS [1]		CRI	CCT		SHIELDING
PTS	1 1′ [2]	2 2′	**1x4**		8 80	27	2700K	**RA** Diffuse ribbed acrylic, round
	2 2′	4 4′	L27	2,700lm	9 90	30	3000K	**SA** Diffuse ribbed acrylic, square [3]
			L45	4,500lm		35	3500K	
			2x2			40	4000K	
			L26	2,600lm		50	5000K	
			L38	3,800lm				
			L47	4,700lm				
			2x4					
			L38	3,800lm				
			L49	4,900lm				
			L61	6,100lm				
			L84	8,400lm				

OPTIONS
See page 3 for FINISH OPTIONS. See page 3 for SUSPENDED MOUNTING OPTIONS.

EM/10W	10-watt emergency battery [5]
EM/10WLP	Low-profile 10-watt emergency battery [6]
EM/12W	12-watt emergency battery [7]
(L__)	Additional lower lumen packages available [8] Example: 8,000 lumens = PTS-24-L84/835-**(L80)**
HE	High efficacy lumen package [9]
AMW	Anti-microbial white finish

CONTROL [4]
See page 5 for ADDITIONAL CONTROL OPTIONS.

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

DRIVER
See page 5 for ADDITIONAL DRIVER OPTIONS.

DIM	Driver with external 0-10V dimming wires
DRV	Driver without external dimming wires
DA	Driver with 12V auxiliary power, without external dimming wires [14]
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2) [15]

VOLTAGE

120	120V
277	277V
UNV	120-277V
347	347V [16]

NOTES

1. Lumen output based on RA Shielding and 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen package available, see Options.
2. 4′ length only.
3. Increases lumen output by 3%.
4. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 3 for SENSOR & NODE PLACEMENT DETAILS.
5. 2x2 and 2x4 only.
6. 1x4 only.
7. 2x2 and 2x4 only. Not available when CEC regulations are required.
8. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
9. Not available with 90 CRI or 1x4 L27 lumen package. See page 2 for FIXTURE PERFORMANCE DATA.
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 Vive and Athena Controls only.
16. Not available with EM batteries, DA, or DSR drivers.

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FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	STANDARD		HE OPTION [1]	
			WATTAGE	EFFICACY (lm/W)	WATTAGE	EFFICACY (lm/W)
1x4	L27	2723	21.4	127	–	–
	L45	4526	33.7	134	26.7	169
2x2	L26	2633	21.3	124	17.2	154
	L38	3804	32.6	117	23.0	166
	L47	4708	38.1	124	29.9	158
2x4	L38	3763	31.4	120	23.1	163
	L49	4928	37.2	132	29.5	167
	L61	6059	48.5	125	35.8	169
	L84	8470	68.1	124	52.2	162

MULTIPLIER TABLE

	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	0.82
	3000K	0.83
	3500K	0.84
	4000K	0.86
	5000K	0.90

1 Not available with 90 CRI.

▪ Photometrics tested in accordance with IESNA LM-79. Results based on RA Shielding, 80 CRI/3500K CCT, wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
▪ To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
▪ Use multiplier table to calculate additional options.

PHOTOMETRY

PTS-24-L84/835-RA-DIM-UNV Total Luminaire Output: 8470 lumens; 68.1 Watts | Efficacy: 124 lm/W | 80 CRI; 3500K CCT
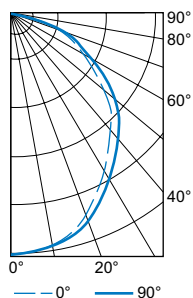
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	3198	3198	3198	
5	3182	3182	3184	302
15	2975	2988	3006	852
25	2632	2677	2715	1243
35	2213	2296	2373	1436
45	1800	1943	2057	1477
55	1267	1432	1571	1279
65	822	1015	1170	990
75	381	606	768	640
85	76	272	319	251
90	0	0	0	

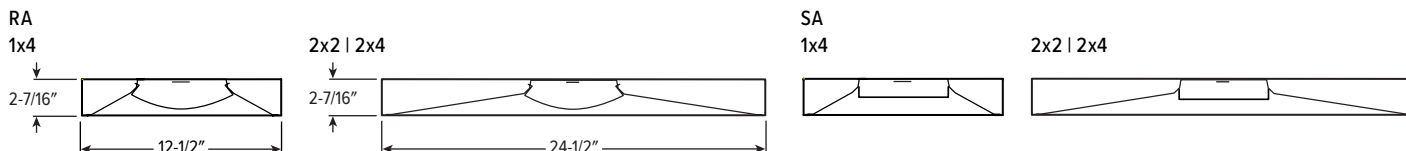| ZONE	LUMENS	% FIXTURE
0 - 30	2398	28
0 - 40	3834	45
0 - 60	6590	78
0 - 90	8470	100
0 - 180	8470	100

PTS-14-L45/835-RA-DIM-UNV Total Luminaire Output: 4526 lumens; 33.7 Watts | Efficacy: 134 lm/W | 80 CRI; 3500K CCT
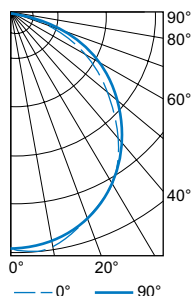
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1649	1649	1649	
5	1687	1668	1643	158
15	1612	1608	1588	451
25	1475	1482	1464	678
35	1283	1300	1301	806
45	1023	1069	1084	815
55	733	805	839	715
65	470	557	571	532
75	209	293	305	297
85	32	53	62	73
90	0	0	0	

ZONE	LUMENS	% FIXTURE
0 - 30	1287	28
0 - 40	2093	46
0 - 60	3623	80
0 - 90	4526	100
0 - 180	4526	100

CROSS SECTIONS

RA
1x4

2-7/16″   12-1/2″

2x2 | 2x4

2-7/16″   24-1/2″

SA
1x4

2x2 | 2x4

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FIXTURE DETAILS

BACKVIEW

1x4

- (4) 7/8″ KOs
- (4) 5/16″ Mounting holes — (2) 2″ KOs
- 4-1/2″
- 7″ 9″
- 44″
- 48-9/16″

2x2 | 2x4

- (4) 7/8″ KOs
- (4) 5/16″ Mounting holes
- (2) 2″ KOs — 4-1/2″
- 17″ 21″
- 2x2: 20″ 2x4: 44″
- 2x2: 24-9/16″ 2x4: 48-9/16″
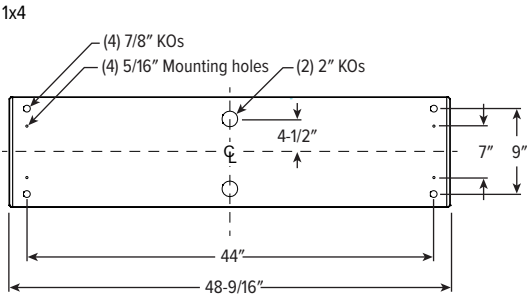
POWER ENTRY
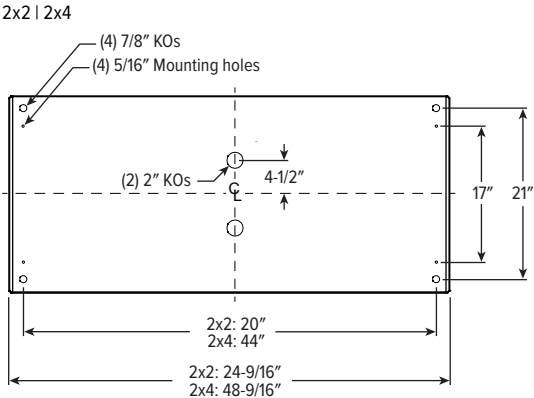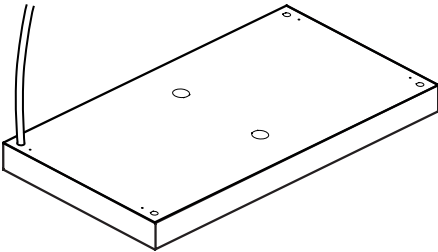
SUSPENDED MOUNTING OPTIONS

AIRCRAFT CABLE

| ORDERING EXAMPLE: ACF*4P/D48		
PREFIX	TYPE	LENGTH
ACF*4P/ Four point mount adjustable aircraft cable	D 1″ grid & hardpan N 9/16″ grid S Slot grid	24 24″ 48 48″ 96 96″ 144 144″ 192 192″ 240 240″ 300 300″

CORD OPTIONS

Units specified with aircraft cable require cord. Please specify cord type using ordering information below. Long fixture rows may require multiple feed points based on 18ga conductor size.

| EXAMPLE: S2438D/W				
CORD TYPE	LENGTH	# OF COND. [1]	WIRE SIZE	COLOR
S	24 24″ 48 48″ 96 96″	3 4 5 6	8D 18ga	/W White /B Black

1 Includes (2) 22ga purple & pink dimming conductors
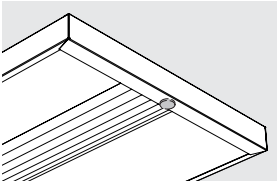
STANDARD HARDWARE (Grid & Hardpan)
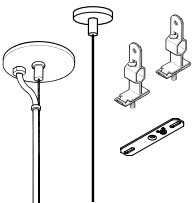
- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- One 5″ canopy used at power feed location to cover the junction box. Three other suspension points use 2″ canopy at the non-feed point. No J-box is required at non-feed points.

FINISH OPTIONS

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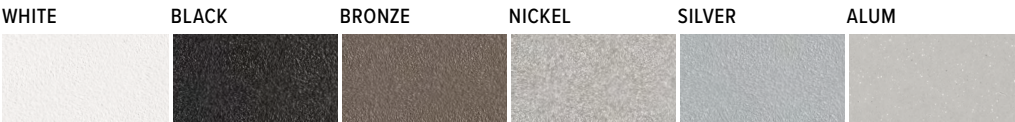
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require four sample swatches, minimum 1″ square.

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.
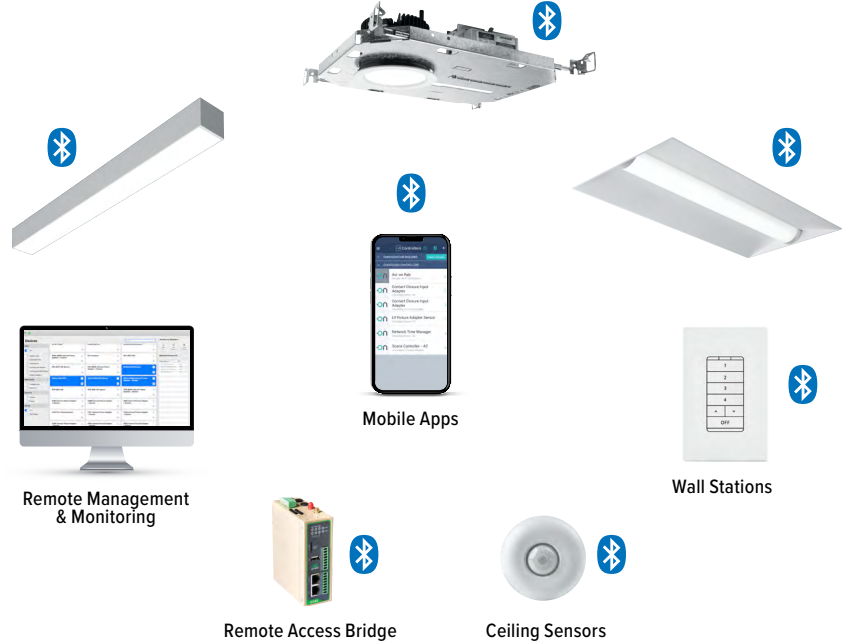
Commissioning Mobile App

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

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
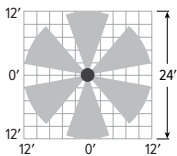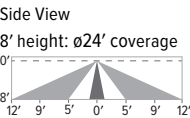
SENSOR DETAIL

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

PTS LED
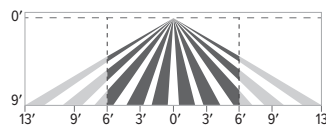Shallow Surface Mount

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℃
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

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

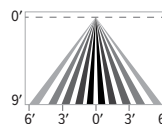| CATALOG NUMBER	DESCRIPTION
AWNR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary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

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℃
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

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
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications
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)
DA	Driver with 12V auxiliary power, without external dimming wires
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming driver

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