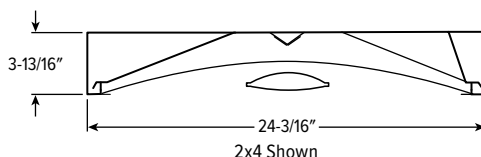


# ATS1<sup>LED</sup> Architectural Surface – Curved Floating Center



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

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

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

## FEATURES

- Backlit curved lens provides uniform illumination for visual comfort
- Curved floating center detail creates a highly-aesthetic presence
- Maximize energy savings with efficacies as high as 116 lm/w
- Optional gasketed acrylic lens helps protect against contaminants
- Wireless in-fixture control solutions available
- Made Right Here® in the USA



## SPECIFICATIONS

- HOUSING** – 20-gauge die-formed, welded C.R.S.
- DOOR FRAME** – Hinged, flat, extruded aluminum door frame with optical assembly.
- SHIELDING** – Diffuse polycarbonate lens and acrylic center standard.
- FINISH** – 95% reflective white 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 >60,000 hours per IES TM-21.
- MOUNTING** – Surface or suspended
- LISTINGS**
  - cETLus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for 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).

ORDERING EXAMPLE: ATS1 - 2 4 - L70/835 - D - OPTIONS - CONTROL/DIM - UNV

## ORDERING INFO

SERIES	WIDTH	LENGTH	LUMENS <sup>[1]</sup>	CRI	CCT	SHIELDING
ATS1	1 1'	2 2' <sup>[2]</sup>	1x4	8 80	27 2700K	D Diffuse matte acrylic center
		4 4'	L30 3,000lm	9 90 <sup>[3]</sup>	30 3000K	P Perforated center <sup>[4]</sup>
	2 2'	4 4'	L50 5,000lm		35 3500K	
			L63 6,300lm		40 4000K	
			2x2		50 5000K	
			L30 3,000lm			
			L40 4,000lm			
			L50 5,000lm			
			2x4			
			L40 4,000lm			
			L55 5,500lm			
			L70 7,000lm			
			L100 10,000lm			

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

<b>EM/10W</b>	10-watt emergency battery <sup>[7]</sup>
<b>EM/10WLP</b>	Low-profile 10-watt emergency battery <sup>[8]</sup>
<b>EM/12W</b>	12-watt emergency battery <sup>[9]</sup>
<b>(L___)</b>	Additional lower lumen packages available. <sup>[10]</sup> Example: 5,000 nominal lumens = ATS1-24-L55/835-D-(L50).
<b>SS</b>	Sani-shield acrylic cover with double gasket. <sup>[11]</sup>
<b>SS/PC</b>	Sani-shield polycarbonate cover with double gasket. <sup>[12]</sup>
<b>AMW</b>	Anti-microbial white finish

## CONTROL<sup>[6]</sup>

See page 5 for ADDITIONAL CONTROL OPTIONS.

–	None
<b>AVI-LVFA</b>	Avi-on wireless fixture control <sup>[13]</sup>
<b>AVI-LVFA-CS2-PIR</b>	Avi-on wireless fixture control with PIR motion and daylight sensor <sup>[14]</sup>
<b>AWNRR</b>	Lutron Athena wireless node integral fixture control, RF only <sup>[15]</sup>
<b>AWNS</b>	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing <sup>[16]</sup>

## DRIVER

See page 5 for ADDITIONAL DRIVER OPTIONS.

<b>DIM</b>	Driver with external dimming wires
<b>DRV</b>	Driver without external dimming wires
<b>DA</b>	Driver with 12V auxiliary power, without external dimming wires <sup>[17]</sup>
<b>DSR</b>	Sensor-ready driver without external dimming wires (DAI DALI-2) <sup>[18]</sup>

## VOLTAGE

<b>120</b>	120V
<b>277</b>	277V
<b>UNV</b>	120-277V
<b>347</b>	347V <sup>[19]</sup>

## NOTES

- Lumen output based on 80 CRI/3500K CCT, D shielding. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen package available, see options.
- 2' width only.
- Extended lead times may apply. Consult factory for availability.
- Decreases lumen output by 15%
- See page 2 for FINISH OPTIONS. Custom colors available upon request. Suspended mounting available. See page 3 for SUSPENDED MOUNTING DETAILS.
- See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 3 for SENSOR & NODE PLACEMENT DETAILS.
- 2x2, 2x4 only.

- 1x4 only.
- 2x2, 2x4 only. Not available when CEC regulations are required.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Reduces lumen output by 10%.
- Reduces lumen output by 10%.
- 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.



# ATS1<sup>LED</sup> Architectural Surface – Curved Floating Center

## FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
1x4	L30	3028	29.5	103
	L50	5056	48.3	105
	L63	6318	62.4	101
2x2	L30	3028	29.5	103
	L40	4120	37.2	111
	L50	5056	48.3	105
2x4	L40	4035	34.2	118
	L55	5523	48.0	115
	L70	7002	63.3	111
	L100	10125	86.9	117

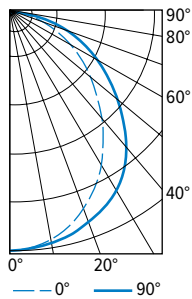
### MULTIPLIER TABLE

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

- 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 3500K, 80 CRI, actual lumens 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

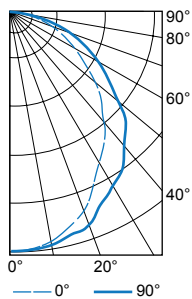
**ATS1-22-L40/835-D-DIM-UNV** Total Luminaire Output: 4120 lumens; 37.2 Watts | Efficacy: 111 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	1556	1556	1556	
	5	1557	1550	1549	147
	15	1468	1485	1511	419
	25	1295	1353	1429	625
	35	1089	1171	1282	736
	45	840	948	1054	732
	55	600	723	793	635
	65	382	495	564	479
	75	197	290	323	279
	85	44	54	48	65
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1191	29
	0 - 40	1928	47
	0 - 60	3296	80
	0 - 90	4120	100
	0 - 180	4120	100

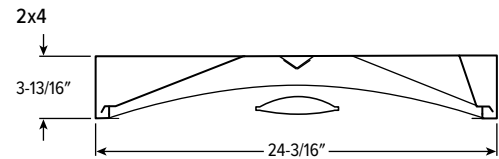
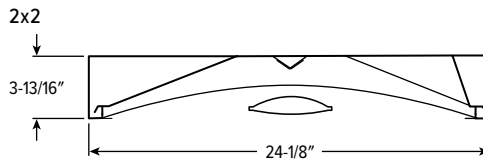
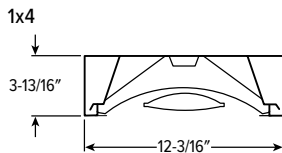
**ATS1-24-L70/835-D-DIM-UNV** Total Luminaire Output: 7002 lumens; 63.3 Watts | Efficacy: 111 lm/W | 80 CRI; 3500K CCT



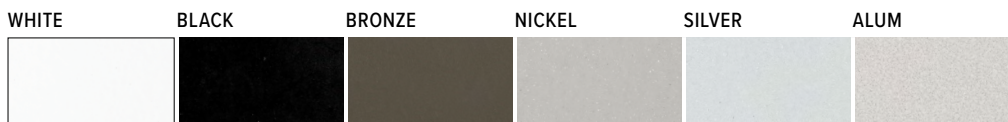
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	2694	2694	2694	
	5	2696	2701	2703	256
	15	2533	2576	2626	725
	25	2185	2298	2426	1064
	35	1835	2023	2194	1250
	45	1396	1632	1771	1232
	55	982	1203	1296	1052
	65	643	843	912	804
	75	336	500	514	487
	85	95	102	105	133
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2044	29
	0 - 40	3294	47
	0 - 60	5578	80
	0 - 90	7002	100
	0 - 180	7002	100

## CROSS SECTIONS



## 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.



H.E. Williams, Inc.

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Designed and Manufactured in the USA

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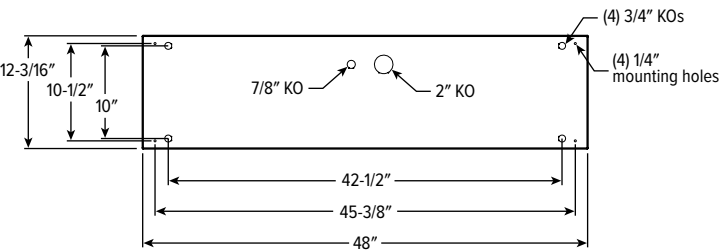
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Page 2 of 5

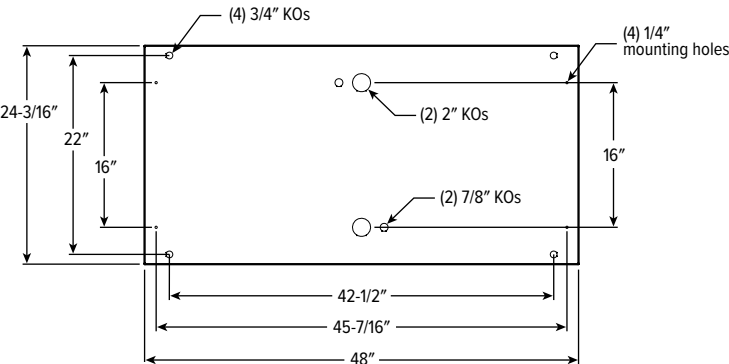
Information contained herein is subject to change without notice.

FIXTURE DETAILS

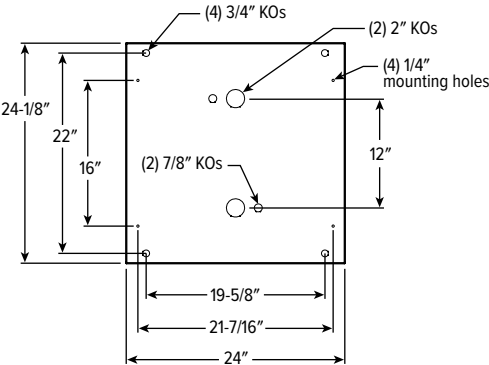
BACKVIEW  
1x4



2x4



2x2



SUSPENDED MOUNTING DETAILS

AIRCRAFT CABLE

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

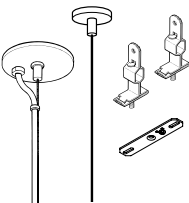
CORD OPTIONS

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. <sup>[1]</sup>	WIRE SIZE	COLOR
S	24 24"	3	8D 18ga	/W White /B Black
	48 48"	4		
	96 96"	5		
		6		

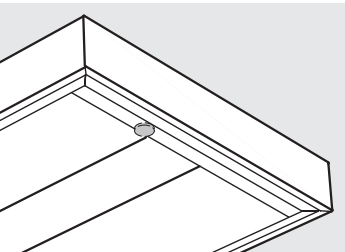
<sup>1</sup> Includes (2) 22ga purple & pink dimming conductors

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.

SENSOR & NODE PLACEMENT DETAILS



# ATS1<sup>LED</sup> Architectural Surface – Curved Floating Center

## 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

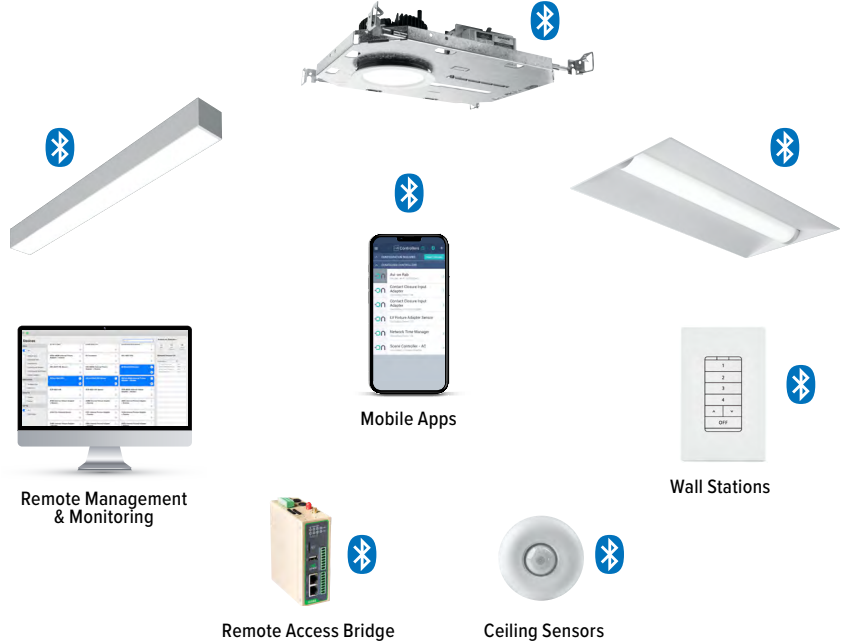


Zone Scanner  
Web App



Commissioning  
Pro App

### SYSTEM COMPONENTS



The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Avi-on is under license. Other trademarks and trade names are those of their respective owners.

### 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)

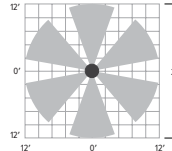
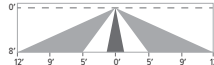
### AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

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"



# ATS1<sup>LED</sup> Architectural Surface – Curved Floating Center

## ADDITIONAL CONTROL OPTIONS

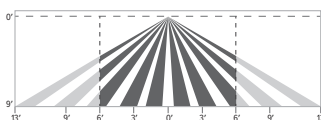
**AWNS** Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

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

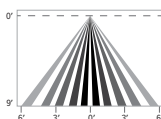
CATALOG NUMBER	DESCRIPTION
AWNDR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary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

## 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

