

CATALOG #: _____

Type: _____

PROJECT: _____



FEATURES

- Attractive and efficient architectural fixture delivers comfortable, uniform illumination
- Delivers illumination ranging from high output for high ceiling applications to low, ambient light levels
- Companion AMD fixtures preserve continuity in patient rooms, see hew.com
- Shallow fixture depth allows for use in limited plenum applications
- Frosted acrylic diffusers combined with highly reflective matte white paint provide high optical efficiencies and visual comfort
- One-piece diffusers eliminate the need for separate overlays
- Room-side access to all components without the use of tools
- Integral T-bar clips quickly secure fixture to structure
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING** – .032" formed aluminum.
- SHIELDING** – Frosted, ribbed acrylic diffusers.
- FINISH** – Highly-reflective non-glare matte 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. See fixture performance data for lumen maintenance.
- MOUNTING** – NEMA Type "G" 15/16" or 1" grid standard. For NEMA Type "NFG" and "SG" 9/16" grid installations, specify EQCLIPS option. Drywall flange kit available, shipped separately, see page 3 for DRYWALL KIT (DFK) OPTIONS.
- LISTINGS** –
 - cCSAus certified as luminaire suitable for dry or damp locations.
 - City of Chicago Environmental Air approved when specified with CP option.
 - 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.

ORDERING EXAMPLE: AHT G - 2 4 - L150/840 - A - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES	CEILING TYPE ⁽¹⁾	WIDTH	LENGTH	LUMENS ⁽²⁾	CRI	CCT
AHT	G 15/16" or 1" grid	2 2'	2 2'	L40 4,000lm	8 80	30 3000K
			4 4'	L60 6,000lm		35 3500K
		L76 7,600lm	40 4000K			
		L125 12,500lm	50 5000K			
		L150 15,000lm				
	4'	L40 4,000lm				
		L80 8,000lm				
		L120 12,000lm				
		L150 15,000lm				
		L200 20,000lm				
		L250 25,000lm				
			L300 30,000lm			

SHIELDING

A Frosted, ribbed acrylic diffusers

OPTIONS ⁽³⁾

- EM/10W** 10-watt emergency battery ⁽⁴⁾
- EQCLIPS** Earthquake clips ⁽⁵⁾
- (L__)** Additional lower lumen packages available
Example: 8,500 lumens = AHTG-24-L120/850-(L85) ⁽⁶⁾
- CP** Chicago Plenum (CCEA)
- SS** Sani-shield acrylic cover with double gasket ⁽⁷⁾
- SS/PC** Sani-shield polycarbonate cover with double gasket ⁽⁸⁾

CONTROL

See page 4 for ADDITIONAL CONTROL/ DRIVER OPTIONS.

- None
- AVI-LVFA** Avi-on wireless fixture control ⁽⁹⁾
- AWN** Lutron Athena wireless node integral fixture control, RF only ⁽¹⁰⁾

DRIVER

See page 4 for ADDITIONAL CONTROL/ DRIVER OPTIONS.

- DIM** Driver with external dimming wires
- DRV** Driver without external dimming wires
- DA** Driver with 12V auxiliary power, without external dimming wires ⁽¹¹⁾
- DSR** Sensor-ready driver without external dimming wires (DAi DALI-2) ⁽¹²⁾

VOLTAGE

- 120 120V
- 277 277V
- UNV 120-277V
- 347 347V ⁽¹³⁾

NOTES

- See page 3 for DRYWALL KIT (DFK) OPTIONS.
- Lumen output based on 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
- See page 3 for FLEXIBLE WHIP OPTIONS. See Technical Info for Power Entry details.
- Not available with 2' lumen packages: L125, L150, or 4' lumen packages: L250 or L300.
- 4 per fixture. Optional for 1" grid installations. Required for 9/16" grid mounting.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Not available with 2' lumen packages: L125, L150, or 4' lumen packages: L250, L300. Not available with EM batteries when specified with 2' lumen package: L76 or 4' lumen packages: L150, L200. Increases fixture depth. Reduces lumen output by 10%. See page 2 for CROSS SECTIONS. See page 2 for FIXTURE DETAILS.
- Not available with 2' lumen packages: L125, L150, or 4' lumen packages: L250, L300. Not available with EM batteries when specified with 2' lumen package: L76 or 4' lumen packages: L150, L200. Increases fixture depth. Reduces lumen output by 10%. See page 2 for CROSS SECTIONS. See page 2 for FIXTURE DETAILS.
- Not available with 2' lumen packages: L125, L150, or 4' lumen packages: L250, L300. Not available with EM batteries when specified with 2' lumen package: L76 or 4' lumen packages: L150, L200. Increases fixture depth. Reduces lumen output by 10%. See page 2 for CROSS SECTIONS. See page 2 for FIXTURE DETAILS.
- DA Driver only. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- DA and DSR Drivers only.
- Avi-on and Lutron Athena Controls only.
- Lutron Athena Controls only.
- Not available with EM batteries, DA, or DSR drivers.



FIXTURE PERFORMANCE DATA

	LED PACKAGE	WATTAGE	A		SS		SS/PC		LUMEN MAINTENANCE ⁽¹⁾			
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	L70	L80	L85	L90
2'	L40	34.2	4086	119	3718	109	3637	106	>72,000	>72,000	63,000	42,000
	L60	52.6	6083	116	5536	105	5414	103	>72,000	>72,000	63,000	42,000
	L76	62.4	7645	123	6957	111	6804	109	>72,000	>72,000	63,000	42,000
	L125	108.1	12600	117	-	-	-	-	>72,000	>72,000	63,000	42,000
	L150	128.4	15029	117	-	-	-	-	>72,000	62,000	45,000	29,000
4'	L40	30.4	3924	129	3571	117	3492	115	>102,000	>102,000	>102,000	82,000
	L80	65.3	8036	123	7313	112	7152	110	>72,000	>72,000	63,000	42,000
	L120	105.1	12166	116	11071	105	10828	103	>72,000	>72,000	63,000	42,000
	L150	122.3	15025	123	13673	112	13372	109	>72,000	62,000	45,000	29,000
	L200	171.1	20252	118	18429	108	18024	105	>72,000	>72,000	63,000	42,000
	L250	216.3	25201	117	-	-	-	-	>72,000	>72,000	63,000	42,000
	L300	256.8	30059	117	-	-	-	-	>72,000	62,000	45,000	29,000

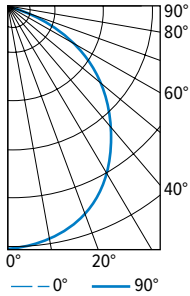
MULTIPLIER TABLE

COLOR TEMPERATURE	
CCT	CONVERSION FACTOR
3000K	0.99
3500K	1.00
4000K	1.03
5000K	1.06

- Predicted lumen maintenance calculated in accordance with IES TM-21 per Energy Star (R) TM-21 Calculator rev. 02.08.16.
- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/3500K CCT, average 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

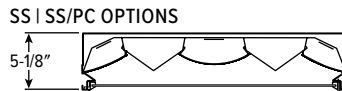
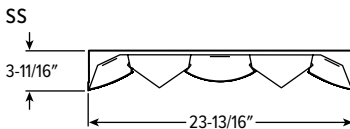
AHTG-24-L150/835-A-DIM-UNV Total Luminaire Output: 15025 lumens; 122.3 Watts | Efficacy: 123 lm/W | 80 CRI; 3500K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	6347	6347	6347	
5	6320	6316	6313	599
15	5950	5909	5878	1680
25	5376	5327	5250	2456
35	4559	4525	4450	2818
45	3568	3653	3636	2784
55	2455	2642	2599	2303
65	1510	1662	1323	1520
75	704	641	458	696
85	181	135	120	171
90	0	0	0	

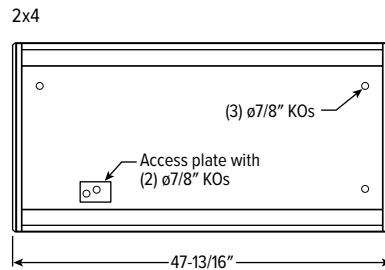
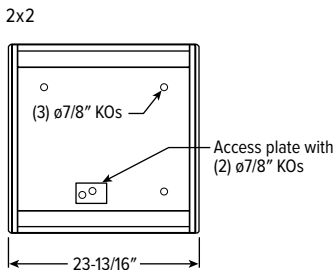
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	4735	32
	0 - 40	7552	50
	0 - 60	12639	84
	0 - 90	15025	100
	0 - 180	15025	100

CROSS SECTIONS

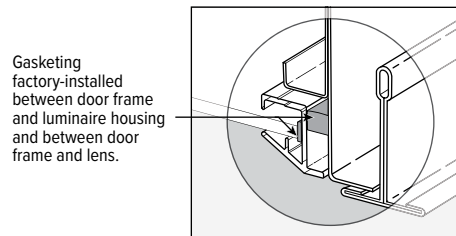


FIXTURE DETAILS

BACKVIEW



SS | SS/PC OPTIONS GASKETING



FLEXIBLE WHIP OPTIONS

All Williams recessed troffers are available with a flexible metallic wiring harness, factory-attached and hard-wired to the luminaire. See ordering information table.

Straight connectors are a snap-in type. Consult factory for wiring harness utilizing connectors secured by lock nuts, optional flex size, lengths, and other wire sizes or circuitry. Three-wire flex utilizes black, white, and green wire. Four-wire flex utilizes black, white, red, and green wire. Adding an emergency option requires an additional wire.

Williams fixtures are UL listed to provide factory-installation of several manufacturers' modular wiring devices. Consult factory for availability and ordering information.

DESIGNATION	DESCRIPTION	DRIVER
F338	6' of 3/8" flex, (3) No. 18 AWG wires with (2) straight connectors	DRV, LTE LINE
F348	6' of 3/8" flex, (4) No. 18 AWG wires with (2) straight connectors	SD40
F334	6' of 3/8" flex, (3) No. 14 AWG wires with (2) straight connectors	DRV, LTE LINE
F344	6' of 3/8" flex, (4) No. 14 AWG wires with (2) straight connectors	SD40
F358	6' of 3/8" flex, (5) #18 AWG wires with (2) straight connectors	DIM, DALI

DRYWALL KIT (DFK) OPTIONS

ORDERING INFO

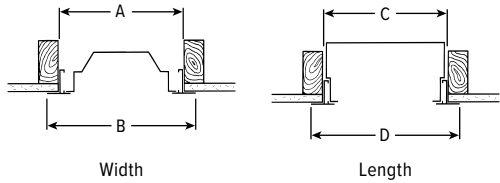
EXAMPLE: DFK - 24 48 W			
SERIES	WIDTH	LENGTH	FINISH
DFK Drywall kit	24 2'	24 2'	W White
	24 2'	48 4'	AMW Anti-microbial white

INSTALLATION DIMENSIONS

NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
	WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
2' x 2'	24-3/8"	24-3/8"	25-5/16"	25-5/16"
2' x 4'	24-3/8"	48-3/8"	25-5/16"	49-5/16"

TYPICAL INSTALLATION

Refer to table for dimensions.



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

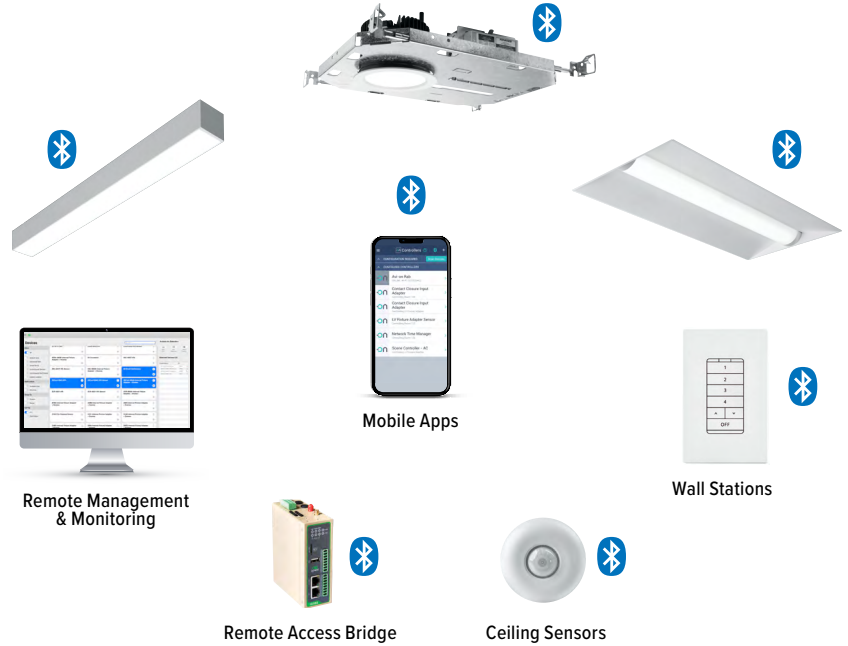


Zone Scanner Web App



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
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

ADDITIONAL CONTROL/DRIVER OPTIONS

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

CATALOG NUMBER	DESCRIPTION
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power
AWN/DA	Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power
AWN/DSR	Lutron Athena wireless node integral fixture control, RF only, for use with sensor-ready driver (D4i DALI-2)
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)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver

