

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
- 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
- Available with Avi-on wireless fixture controls
- 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** – Designed for NEMA Type "G" 1" grid ceiling standard. For NEMA Type "NFG" and "SG" 9/16" grid installations, specify EQCLIPS option. Flange installation 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.
- 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 NEMA Type "G"	2 2'	2 2'	L40 4,000lm	8 80	30 3000K
			4 4'	L60 6,000lm		35 3500K
		4'	L76 7,600lm	40 4000K		
			L40 4,000lm	50 5000K		
			L80 8,000lm			
			L120 12,000lm			
			L150 15,000lm			
			L200 20,000lm			

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^[9]

- None
- AVI-LVFA** Avi-on wireless fixture control^[11]

DRIVER^[10]

- DIM** Driver with external dimming wires
- DRV** Driver without external dimming wires
- DA** Driver with 12V auxiliary power, without external dimming wires^[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 3500 CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- See page 3 for FLEXIBLE WHIP OPTIONS. See Technical Info for Power Entry details.
- Not available with L120 lumen package.
- 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 EM batteries when specified with L76, L150 or L200 lumen stops. Increases fixture depth. Reduces lumen output by 10%. See page 2 for CROSS SECTIONS. See page 3 for GASKETING DETAILS.
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- See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- See page 6 for ADDITIONAL DRIVER OPTIONS.
- DA Driver only.
- Avi-on Controls only.
- Not available with EM batteries or Avi-on Controls.



FIXTURE PERFORMANCE DATA

	LED PACKAGE	WATTAGE	A		SS		SS/PC		LUMEN MAINTENANCE		
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	L80	L85	L90
2'	L40	34.2	4086	119.6	3718	108.8	3637	106.4	>72000	>72000	50,000
	L60	52.6	6083	115.8	5536	105.3	5414	103.0	>72000	58,000	36,000
	L76	62.4	7645	122.6	6957	111.6	6804	109.1	>72,000	>72000	50,000
4'	L40	30.4	3924	129.1	3571	117.5	3492	114.9	>72000	>72000	50,000
	L80	65.3	8036	123.0	7313	112.0	7152	109.5	>72000	>72000	50,000
	L120	105.1	12166	115.7	11071	105.3	10828	103.0	>72000	58,000	36,000
	L150	122.3	15025	122.8	13673	111.8	13372	109.3	>72000	>72000	50,000
	L200	171.1	20252	118.4	18429	107.7	18024	105.3	>72000	58,000	36,000

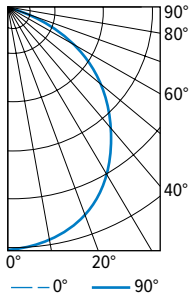
MULTIPLIER TABLE

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

- 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%
- 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.
- Use multiplier table to calculate additional options.

PHOTOMETRY

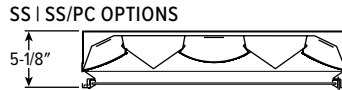
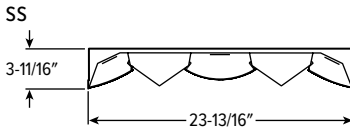
AHTG-24-L150/835-A-DIM-UNV Total Luminaire Output: 15025 lumens; 122.3 Watts | Efficacy: 123 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	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	

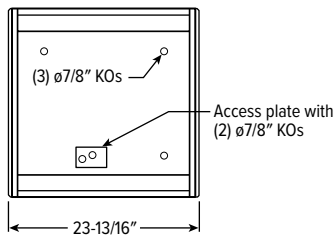
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	4735	32
	0 - 40	7552	50
	0 - 60	12639	84
	0 - 90	15025	100
	0 - 180	15025	100

CROSS SECTIONS

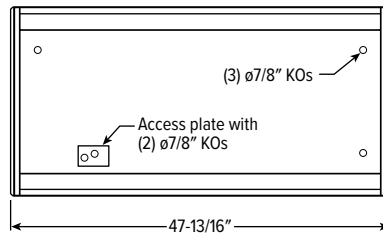


FIXTURE DETAILS

BACKVIEW
2x2

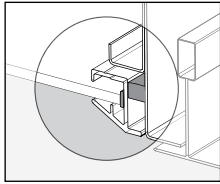


2x4



GASKETING DETAILS

SANI-SHIELD OPTION GASKETING



Protective acrylic shield with double gasket. Foam gasketing is factory-installed continuously between door frame and luminaire housing and between door frame and lens.

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.

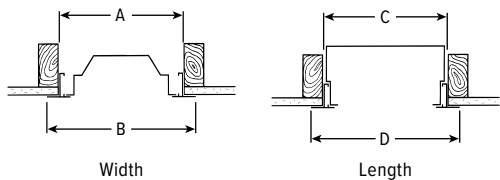
DESIGNATION	DESCRIPTION	DRIVER
F338	6' of 3/8" flex, (3) No. 18 AWG wires with (2) straight connectors	DRV, LTE LINE
F348	6' of 3/8" flex, (4) No. 18 AWG wires with (2) straight connectors	SD40
F334	6' of 3/8" flex, (3) No. 14 AWG wires with (2) straight connectors	DRV, LTE LINE
F344	6' of 3/8" flex, (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 EXAMPLE: DFK - 24 48 W			
SERIES	WIDTH	LENGTH	FINISH
DFK Drywall Kit	See table below	See table below	W White AMW Anti-microbial white

TYPICAL INSTALLATION

Refer to table for dimensions.



CATALOG NUMBER	NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
		WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
DFK-2424	2' x 2'	24-3/8"	24-3/8"	25-5/16"	25-5/16"
DFK-2448	2' x 4'	24-3/8"	48-3/8"	25-5/16"	49-5/16"

SEE NEXT PAGE FOR CONTROL DETAILS.



AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

AVI-ON NETWORK FEATURES

Simple

- Gateway-free distributed control
- Factory pre-commissioning
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

Scalable

- Virtually unlimited network size
- Spans small areas to large warehouses
- Flexible control strategies

Secure

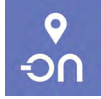
- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

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



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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
CONNECTIVITY	
AVI-2001RAB-01-P	Remote access bridge for projects 100 or greater
AVI-2001RAB-01-C	Remote access bridge for projects less than 100
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 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
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-Lume 1% EcoSystem dimming LED driver

