DI
LED
Recessed Direct/Indirect

Williams

4-7/8″

23-13/16″

Shown with AD (standard)

CATALOG #: _____

TYPE: _____

PROJECT: _____

BAA & BABA COMPLIANT

CCEA Approved

FEATURES

- Provides soft, uniform illumination
- Choice of three diffusers to enhance the space
- Power and light levels can be custom set to meet energy and design needs
- Multiple dimming protocols available
- Rated for direct contact with insulation
- Shallow housing depth
- HE option delivers superior efficacies up to 170 lm/W
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – 20-gauge die-formed C.R.S.
- REFLECTOR – Precision die-formed C.R.S. with highly reflective non-glare matte white polyester powder coated finish.
- SHIELDING – Ribbed acrylic standard.
- 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. L70 at 50,000 hours per IES TM-21. L80 > 102,000 hours with HE option. 50/60 Hz constant current driver.
- MOUNTING – NEMA Type "G" 15/16″ or 1″ grid standard. For NEMA Type "NFG" 9/16″ grid installation, specify EQCLIPS option. NEMA Type "SS" 9/16″ grid installation available (earthquake clips included). Drywall kit accessories available for flange applications, shipped separately, see options.
- LISTINGS –
  - cCSAus conforms to UL STD 1598. Suitable for dry or damp locations.
  - IC-rated for direct contact with insulation.
  - City of Chicago Environmental Air approved when specified with CP option.
  - 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: DI G - S 2 4 - L98/835 - AD - OPTIONS - CONTROL/DIM - UNV

SERIES	CEILING TYPE [1]	FIXTURE STYLE	WIDTH	LENGTH	LUMENS [2]	
DI	G 15/16″ or 1″ grid	S Static, no air capability	1 1′ [4]	2 2′	**1x4**	**2x4**
	SG 9/16″ Screw slot grid [3]		2 2′	4 4′	L28 2,800lm	L50 5,000lm
					L47 4,700lm	L64 6,400lm
					L60 6,000lm	L88 8,800lm
					2x2	L98 9,800lm
					L24 2,400lm	
					L32 3,200lm	
					L48 4,800lm	

CRI	CCT	SHIELDING [5]	
8 80	27 2700K	AD	Ribbed acrylic
9 90	30 3000K	WPR	White perforated round
	35 3500K	WPR/ACRY/CTR/CLR	White perforated round with center clear acrylic [6]
	40 4000K		
	50 5000K		

OPTIONS [7]

See page 3 for FLEXIBLE WHIP OPTIONS.

EM/10W	10-watt emergency battery
EQCLIPS	Earthquake clips [8]
(L__)	Additional lower lumen packages available [9]
	Example: 7,000 nominal lumens = DIG-S24-L88/850-(L70)
HE	High efficacy lumen package [10]
CP	Chicago Plenum (CCEA)
DFK-1248W	Drywall kit, 12″ x 24″, white
DFK-2424W	Drywall kit, 24″ x 24″, white
DFK-2448W	Drywall kit, 24″ x 48″, white

CONTROL

See page 4 for ADDITIONAL CONTROL/ DRIVER OPTIONS.

–	None
AVI-LVFA	Avi-on wireless fixture control [11]
AWNR	Lutron Athena wireless node integral fixture control, RF only [12]

DRIVER

See page 4 for ADDITIONAL CONTROL/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 [13]
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2) [14]

VOLTAGE

120	120V
277	277V
UNV	120-277V
347	347V [15]

NOTES

1. See page 3 for DRYWALL KIT (DFK) OPTIONS.
2. Lumen output based on AD Shielding, 80 CRI/3500K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
3. Earthquake clips included.
4. Available with 4′ length only.
5. See page 3 for SHIELDING DETAILS.
6. 2x2 and 2x4 only. Consult factory for additional colors.
7. See page 3 for DRYWALL KIT (DFK) OPTIONS.
8. 4 per fixture. Optional for 1″ grid installations. Required for 9/16″ grid mounting.
9. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
10. Not available with 90 CRI, 1x4 L28, 2x2 L24, or 2x4 L50 lumen packages. See page 2 for FIXTURE PERFORMANCE DATA.
11. DA Driver only. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
12. DA and DSR Drivers only.
13. Avi-on and Lutron Athena Controls only.
14. Lutron Athena Controls only.
15. Not available with EM batteries, DA, or DSR drivers.

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Recessed

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FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	STANDARD WATTAGE	STANDARD EFFICACY (lm/W)	HE OPTION [1] WATTAGE	HE OPTION [1] EFFICACY (lm/W)
1x4	L28	2810	21.4	131	–	–
1x4	L47	4844	35.2	138	28.5	170
1x4	L60	6009	46.3	130	35.8	168
2x2	L24	2472	19.6	126	–	–
2x2	L32	3286	25.8	127	20.6	160
2x2	L48	4862	38.1	128	29.5	165
2x4	L50	5060	37.4	135	–	–
2x4	L64	6161	47.4	130	40.1	154
2x4	L88	8857	66.3	134	54.1	164
2x4	L98	9869	74.8	132	60.6	163

[1] Not available with 90 CRI.

MULTIPLIER TABLES

COLOR TEMPERATURE

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

SHIELDING

LENS	1x4	2x2 | 2x4
AD	1.00	1.00
WPR	0.78	0.78
WPR/ACRY	–	0.76

- Photometrics tested in accordance with IESNA LM-79. Results based on AD shielding, 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 tables to calculate additional options.

PHOTOMETRY

DIG-S24-L98/835-AD Total Luminaire Output: 9869 lumens; 74.8 Watts | Efficacy: 132 lm/W | 80 CRI; 3500K CCT
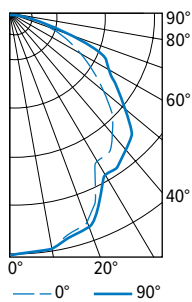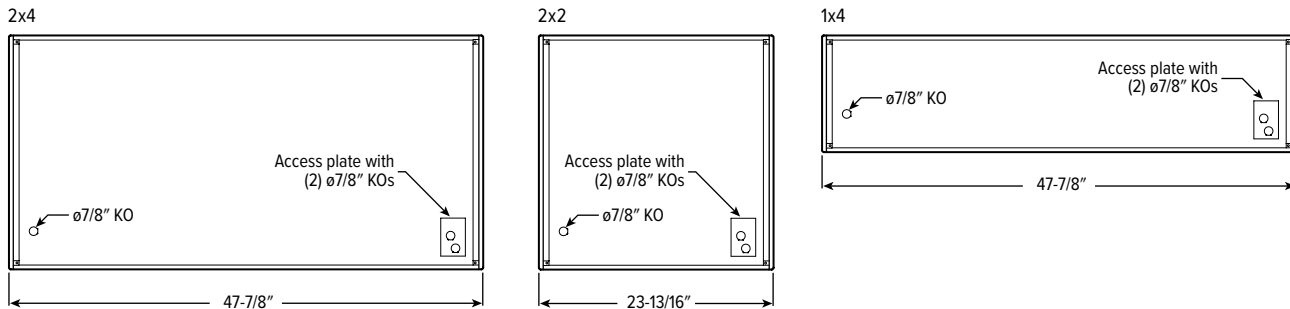

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	HORIZONTAL ANGLE 45°	HORIZONTAL ANGLE 90°	ZONAL LUMENS
0	3587	3587	3587	
5	3545	3544	3546	338
15	3373	3397	3417	966
25	2975	3043	3097	1406
35	2531	2670	2771	1659
45	2156	2386	2530	1789
55	1519	1778	1939	1574
65	1009	1309	1567	1257
75	506	687	618	689
85	143	158	173	189
90	0	0	0	

CANDLEPOWER DISTRIBUTION

ZONE	LUMENS	% FIXTURE
0 - 30	2710	28
0 - 40	4369	44
0 - 60	7733	78
0 - 90	9869	100
0 - 180	9869	100

LUMEN SUMMARY

FIXTURE DETAILS

BACKVIEW

2x4

Access plate with (2) ø7/8″ KOs

ø7/8″ KO

47-7/8″

2x2

Access plate with (2) ø7/8″ KOs

ø7/8″ KO

23-13/16″

1x4

Access plate with (2) ø7/8″ KOs

ø7/8″ KO

47-7/8″

SG CEILING TYPE

1-7/8″

CROSS SECTIONS

1x4 WPR SHIELDING

4-1/16″

11-7/8″

1x4 AD SHIELDING

3-5/8″

11-13/16″

2x2 | 2x4 AD SHIELDING

4-7/8″

23-13/16″

SHIELDING DETAILS

AD   WPR   WPR/ACRY/CTR/CLR
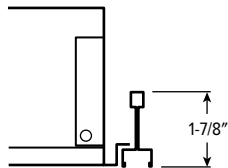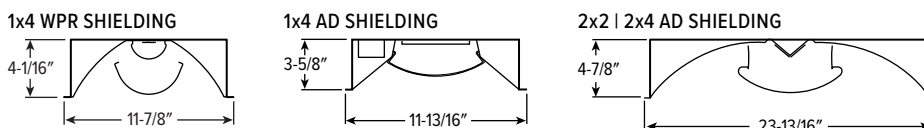
DRYWALL KIT (DFK) OPTIONS

ORDERING INFO

EXAMPLE: DFK - 24 48 W			
SERIES	WIDTH	LENGTH	FINISH
DFK Drywall kit	**12** 1'	**48** 4'	**W** White
	24 2'	**24** 2'	**AMW** Anti-microbial white
	24 2'	**48** 4'	

INSTALLATION DIMENSIONS

NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
	WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
1' x 4'	12-3/8"	48-3/8"	13-5/16"	49-5/16"
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

Width

Length
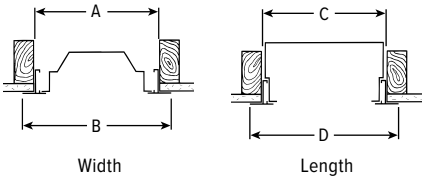
FLEXIBLE WHIP OPTIONS

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

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	DRV + EM, 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) No. 18 AWG wires with (2) straight connectors	DIM, DALI
F368Y	6' of 3/8" flex, (6) No. 18 AWG wires with (2) straight connectors	DIM, DIM + EM, DALI

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.
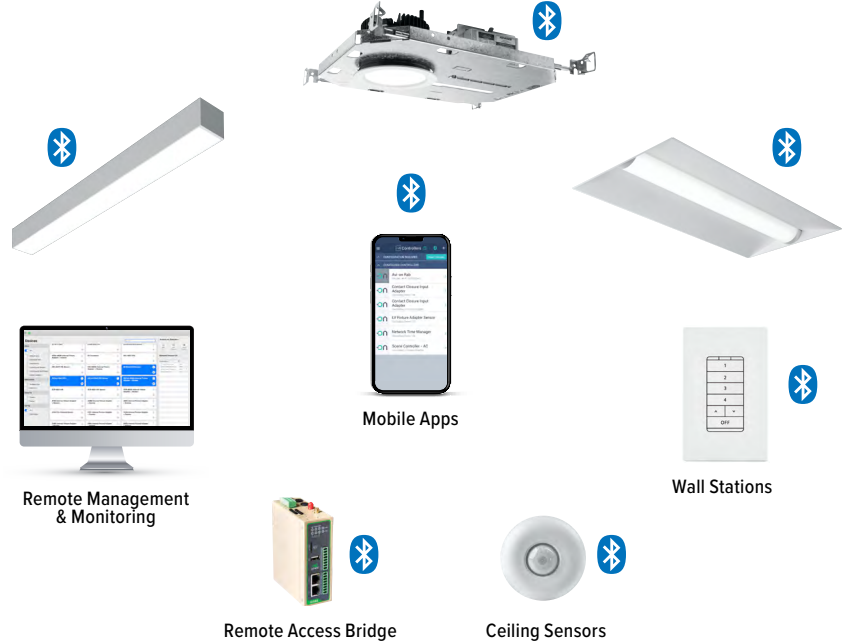
Commissioning Mobile App

Zone Scanner Web App

Commissioning Pro App

SYSTEM COMPONENTS

Remote Management & Monitoring

Mobile Apps

Remote Access Bridge

Ceiling Sensors

Wall Stations

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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

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, without external dimming wires
AWNR/DA	Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power, without external dimming wires
AWNR/DSR	Lutron Athena wireless node integral fixture control, RF only, for use with sensor-ready driver without external dimming wires (D4i DALI-2)
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)
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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