1SF LED
Solid Front Under Cabinet Light

Williams®

CATALOG #: _____

1″

4-7/8″

Type: _____

PROJECT: _____

FEATURES

BUY AMERICAN ACT COMPLIANT

- Small profile installs inconspicuously in confined spaces
- Delivers uniform, glare-free task lighting for work areas
- Housing keyhole slots and knockouts provide quick and easy installation
- Individual or continuous row mounting
- All-welded construction provides long lasting performance
- Available with attractive rocker switch for easy on/off
- Optional anti-microbial white finish available for use in healthcare applications
- Maximize energy savings with efficacies up to 117 lm/W
- Available with Avi-on wireless fixture controls
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – 20-gauge die-formed, welded C.R.S.
- SHIELDING – Diffuse matte acrylic, .080″ thick.
- FINISH – 92% minimum average 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 board(s). See fixture performance data for lumen maintenance. 25°C maximum ambient operating temperature.
- MOUNTING – Surface.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - 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.

avi-on®
Bluetooth® Lighting Controls

ORDERING EXAMPLE: 1SF 4 - L24/835 - AF12125 - OPTIONS - CONTROL/DRV - UNV

ORDERING INFO

SERIES	LENGTH	LUMENS [1]		CRI	CCT		SHIELDING	
1SF	1 1′	1′		8 80	30	3000K	DMA	Diffuse matte acrylic, .080″ thick
	2 2′	L6	600lm		35	3500K	AF12125	Frosted acrylic, pattern #12, .125″ thick
	3 3′	2′			40	4000K		
	4 4′	L12	1,200lm					
		3′						
		L18	1,800lm					
		4′						
		L24	2,400lm					

OPTIONS

GCO	Grounded convenience outlet [3]
C&P/120	6-1/2′ cord and plug, NEMA 5-15P [4]
WRS/120	White rocker switch [5]
AMW	Anti-microbial white finish

CONTROL [2]

–	None
AVI-LVFA	Avi-on wireless fixture control [6]

DRIVER [7]

DIM	Driver with external dimming wires
DRV	Driver without external dimming wires
DA	Driver with 12V auxiliary power, without external dimming wires [8]

VOLTAGE

120	120V
277	277V
UNV	120-277V

NOTES

[1] Lumen output based on AF12125 shielding, 80 CRI/3500K. Actual lumens may vary +/-5%.
[2] See page 3 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 1 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 3 for ADDITIONAL CONTROL OPTIONS.
[3] 120V only; not available with 1′ fixture; cannot be used with occupancy sensor in 2′ fixture.
[4] 120V only.
[5] 120V only. Not available with 1′ fixture.
[6] DA Driver only. Not available with 1′ fixture.
[7] Consult factory for additional driver options.
[8] Avi-on Controls only.

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Information contained herein is subject to change without notice. REV.05/04/23.jl

Surface
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FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	LUMEN MAINTENANCE		
					L80	L85	L90
1	L6	610	5.9	103	>72000	>72000	50,000
2	L12	1283	11.4	113	>72000	58,000	36,000
3	L18	1857	16.0	116	>72000	>72000	50,000
4	L24	2435	20.8	117	>72000	58,000	36,000

MULTIPLIER TABLE

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	3000K	0.99
	3500K	1.00
	4000K	1.03

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25ºC ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on AF12125 shielding, 80 CRI/3500K, 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

**1SF-4-L24/835-AF12125** Total Luminaire Output: 2435 lumens; 20.8 Watts | Efficacy: 117 lm/W | 80 CRI; 3500K CCT
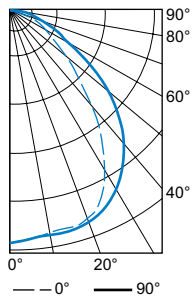
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0º	45º	90º	
0	1077	1077	1077	102
10	1045	1049	1060	297
20	1032	1043	1049	457
30	875	933	976	514
40	589	710	819	452
50	340	453	598	318
60	184	232	335	177
70	92	103	138	84
80	50	50	50	36
90	17	18	10	0

ZONE	LUMENS	% FIXTURE
0 - 30	855	35
0 - 40	1369	56
0 - 60	2139	88
0 - 90	2435	100
0 - 180	2435	100

FIXTURE DETAILS

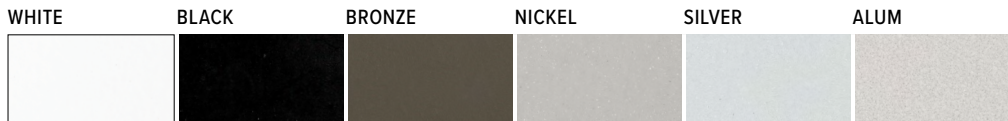### BACK VIEW

ø5/8" Double "D" KO

Keyholes for mounting

1-7/16"
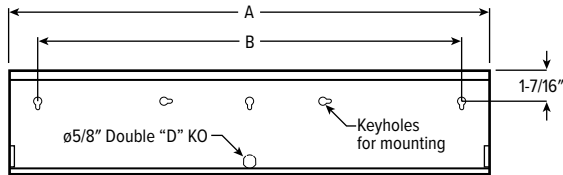
Back of housing provided with adequate keyhole slots and knockout for mounting and wiring.
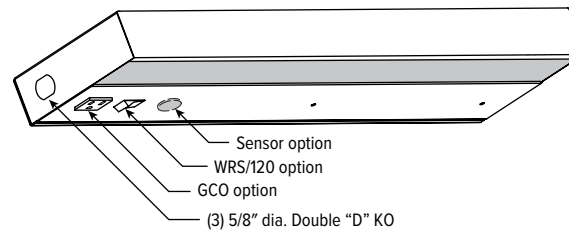
NOMINAL LENGTH	ACTUAL LENGTH (A)	ACTUAL LENGTH (B)
1'	12-1/8"	7-1/2"
2'	22-5/8"	20"
3'	34-3/8"	29"
4'	46-1/4"	38"

OPTION DETAILS

- Sensor option
- WRS/120 option
- GCO option
- (3) 5/8" dia. Double "D" KO

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 two sample swatches, minimum 1" square.

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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

DIGITAL INSTALLATION TOOLS

Avi-On mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers.
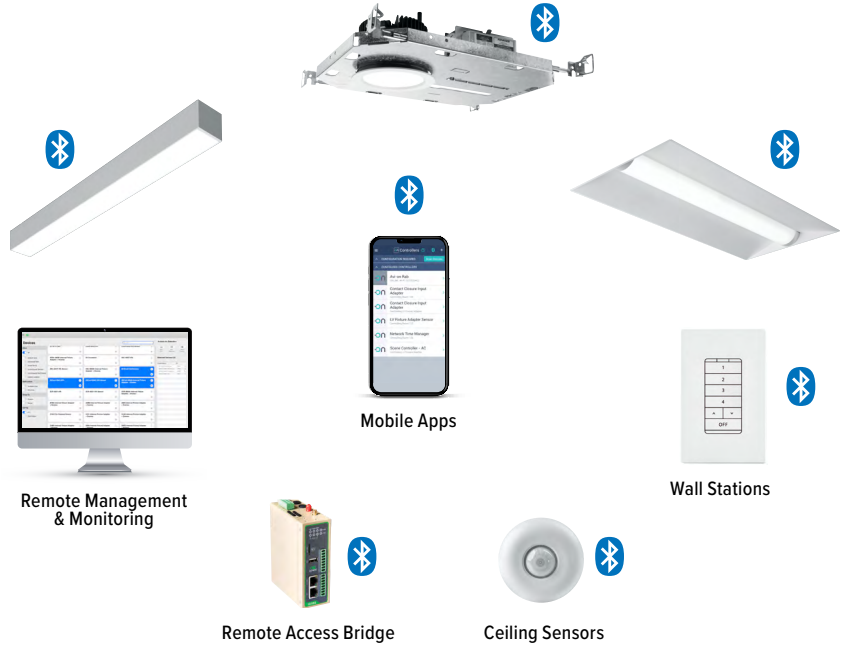
Commissioning Mobile App

Zone Scanner Web App

Commissioning Pro App

SYSTEM COMPONENTS

Mobile Apps

Remote Management & Monitoring

Wall Stations

Remote Access Bridge

Ceiling Sensors

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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 – 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
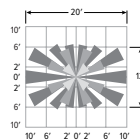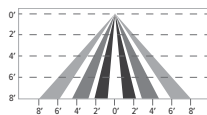
ADDITIONAL CONTROL OPTIONS

Not available with 1' fixture.

OCCLV-OSF10-I0W-___ Leviton PIR motion sensor. Must specify voltage: 120 or 277. Factory-installed.

SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	8'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	20% to 90% non-condensing

SENSOR COVERAGE PATTERNS

8' height: ø16' coverage

SENSOR DETAIL