39 LED Linear Wrap

Williams®

39 Shown

Dimensions: 4", 10-3/16"

CATALOG #: _____

TYPE: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT • ADA Compliant

FEATURES

- ADA Compliant design for surface, suspended, or wall applications
- Diffuser is secured continuously along luminaire sides
- Individual or continuous row mounting
- Endplate knock-out for thru feed wiring standard
- High-performance up to 140 lm/W
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- **HOUSING** – 22-gauge die-formed C.R.S. and riveted construction.
- **SHIELDING** – Frosted ribbed acrylic.
- **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 boards. See fixture performance data for lumen maintenance.
- **MOUNTING** – Surface, suspended, or wall.
- **LISTINGS** –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - ADA Compliant
  - 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: 39 - 4 - L52/835 - A - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES [1]	LENGTH	LUMENS [2]		CRI	CCT		SHIELDING
39 Standard	4 4'	**4'**		8 80	27 2700K		A Frosted ribbed acrylic
39W Wide	8 8' [3]	L30	3,000lm	9 90 [4]	30 3000K		
		L52	5,200lm		35 3500K		
		L84	8,400lm		40 4000K		
		8'			50 5000K		
		L60	6,000lm				
		L104	10,400lm				
		L168	16,800lm				

OPTIONS [5]

EM/10WLP	Low-profile 10-watt emergency battery
QC__	Quick-connect wiring harness. [7]
(L__)	Additional lower lumen packages available. [8] Example: 8,000 nominal lumens = 39-4-L84/835-**(L80)**
SS-12	Single stem and canopy, 12" [9]
SWS-12	Swivel stem and canopy, 12" [10]

MOUNTING (EXAMPLE: AC/D48) [11]

Prefix	Type		Length	
AC(Y12)/	D	1" grid & hardpan	24	24"
	N	9/16" grid	48	48"
	S	Slot grid	96	96"

CONTROL [6]

See page 5 for ADDITIONAL CONTROL OPTIONS.

–	None
AVI-LVFA	Avi-on wireless fixture control [12]
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor [13]
AWNR	Lutron Athena wireless node integral fixture control, RF only [14]
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing [15]

DRIVER

See page 5 for ADDITIONAL DRIVER OPTIONS.

DIM	Driver with external dimming wires
DRV	Driver without external dimming wires
DA	Driver with 12V auxiliary power, without external dimming wires [16]
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2). [17]

VOLTAGE

120	120V
277	277V
UNV	120-277V
347	347V [18]

NOTES

1. See page 2 for FIXTURE DETAILS.
2. 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.
3. Ships with (2) 4' lenses.
4. Extended lead times may apply. Consult factory for availability.
5. See page 3 for FINISH OPTIONS. Custom colors available upon request. See page 3 for MOUNTING DETAILS.
6. See page 3 for SENSOR & NODE PLACEMENT DETAILS. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
7. See page 3 for QUICK-CONNECT OPTIONS.
8. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
9. Two stem sets required. One additional stem set required for each row mounted fixture.
10. Two stem sets required. One additional stem set required for each row mounted fixture.
11. Required with suspended mount fixtures. Units specified with aircraft cable require cord. See page 3 for MOUNTING DETAILS.
12. DA Driver only.
13. DA Driver only.
14. DA and DSR Drivers only.
15. DA and DSR Drivers only.
16. Avi-on and Lutron Athena Controls only.
17. Lutron Athena Controls only.
18. Not available with EM batteries, DA or DSR drivers.

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FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	LUMEN MAINTENANCE [1]			
					L70	L80	L85	L90
4'	L30	3027	22.8	133	—	>72000	58,000	36,000
	L52	5206	37.2	140	—	>72000	58,000	36,000
	L84	8399	66.0	127	>72000	53,000	38,000	24,000
8'	L60	5882	42.3	139	—	>72000	58,000	36,000
	L104	10473	75.59	139	—	>72000	58,000	36,000
	L168	16797	132.03	127	>72000	53,000	38,000	24,000

MULTIPLIER TABLE

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

- 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.

1 Predicted lumen maintenance calculated in accordance with IES TM-21 per Energy Star (R) TM-21 Calculator rev. 02.08.16.

PHOTOMETRY

39W-4-L52/835-A-DIM-UNV Total Luminaire Output: 5206 lumens; 37.2 Watts | Efficacy: 140.1 lm/W | 80 CRI; 3500K CCT
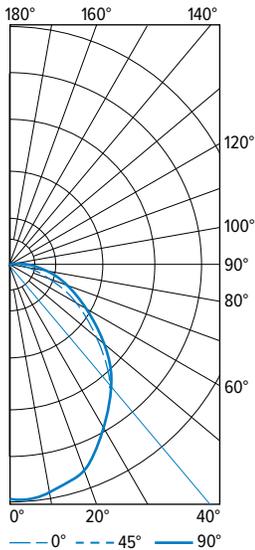

VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1990	1990	1990	
5	2001	1999	2000	189
15	1887	1892	1896	535
25	1676	1685	1688	780
35	1441	1460	1468	902
45	1124	1158	1177	883
55	774	825	861	736
65	486	550	618	547
75	231	324	405	347
85	59	169	246	178
90	0	100	165	
95	0	64	122	70
105	0	25	57	27
115	0	0	29	10
125	0	0	0	2
135	0	0	0	0
145	0	0	0	0
155	0	0	0	0
165	0	0	0	0
175	0	0	0	0
180	0	0	0	

ZONE	LUMENS	% FIXTURE
0 - 30	1504	29
0 - 40	2406	46
0 - 60	4025	77
0 - 90	5097	98
90 - 120	107	2
90 - 150	108	2
90 - 180	108	2
0 - 180	5206	100

CANDLEPOWER DISTRIBUTION

LUMEN SUMMARY

— 0° - - - 45° — 90°

FIXTURE DETAILS

39

4"
10-3/16"

39W

4"
12-1/16"
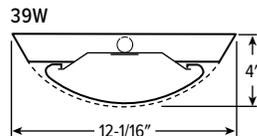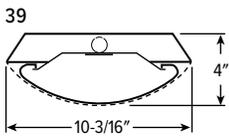
7/8" KO centered in end plate for thru feed wiring

BACKVIEW

A
B
C

10-3/16" (39)
12-1/16" (39W)
6"

ø2" KO
ø7/8" KO
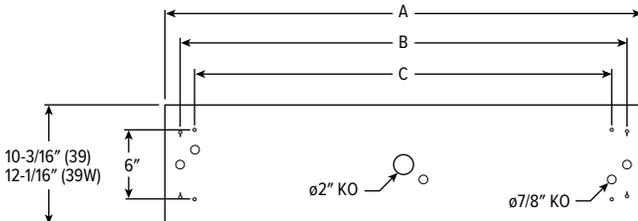
	A (OVERALL)	B (STEM/CABLE O.C.)	C (SURFACE MOUNTING HOLES)
4'	48-1/16"	43"	40"
8'	96-1/16"	91"	88"

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MOUNTING DETAILS

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)


Feeder/Stand-Alone   Joiner
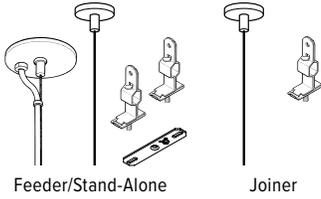
Notes:
- Fixtures specified with suspended mounting type are provided with adjustable length aircraft cables with two-point "Y" connectors and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy to cover the junction box and a 2" canopy at the non-feed point. No J-box is required at non-feed points.

CORD FOR SUSPENDED PRODUCT

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

[1] Includes (2) 22ga purple & pink dimming conductors

SS-12   **SWS-12**


Up to 45° swivel
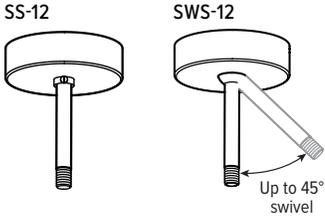
QUICK-CONNECT OPTIONS

Note: Quick-connect wiring required for row mounting. All QC harnesses contain (5) 16ga conductors plus ground.

DESIGNATION	NUMBER OF 16GA WIRES FACTORY CONNECTED (EXCLUDING GROUND)	WIRE COLOR/POWER SUPPLY FACTORY CONNECTIONS	TYPICAL USE
QCBW	2	Black, White	On/off switching (DRV) or line voltage dimming (DIM LINE)
QCRW	2	Red, White	Alternating circuits on/off switching (DRV) or line voltage dimming (DIM LINE)
QCBRW	3	Black, Red, White	On/off switching (DRV) or line voltage dimming when equipped with EM battery packs
QCBW/PK	4	Black, White, Purple, Pink	Single circuit with 0-10V low voltage dimming (DIM)
QCRW/PK	4	Red, White, Purple, Pink	Alternating circuits on/off switching with 0-10V low voltage dimming (DIM)
QCBRW/PK	5	Black, Red, White, Purple, Pink	On/off switching when equipped with EM battery packs and 0-10V dimming (DIM)
QCBW/RPK	5	Black, White, Red, Purple, Pink	On/off switching with 0-10v dimming and 0-10v tunable using shared common
QCUU	N/A	N/A	QC harness passes through fixture, but is not connected to it

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.

SENSOR & NODE PLACEMENT DETAILS

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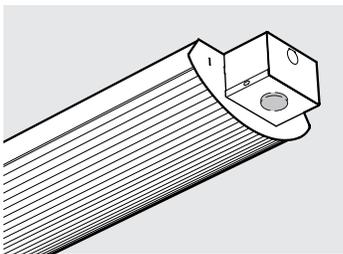
AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

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

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

Mobile Apps

Remote Management & Monitoring

Wall Stations

Remote Access Bridge

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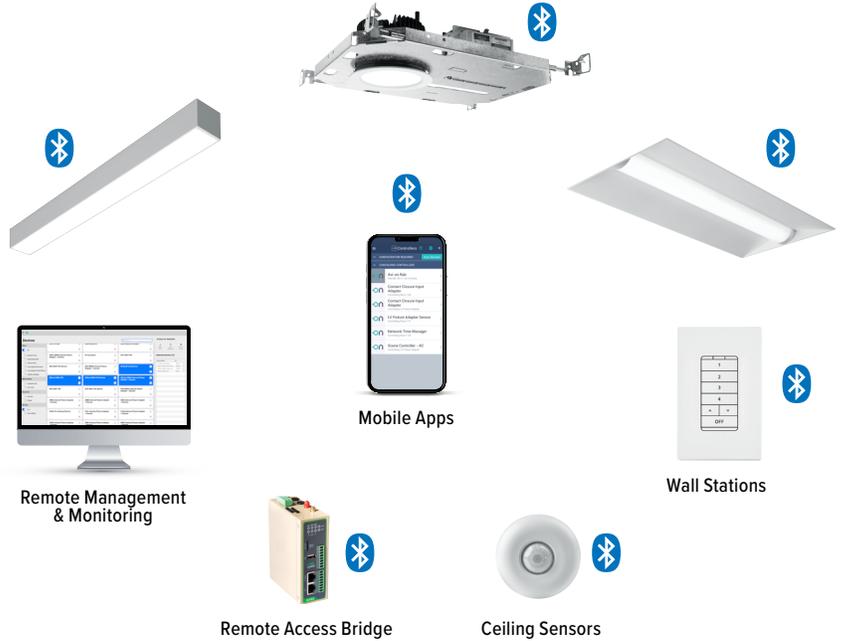
The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Avi-on is under license. Other trademarks and trade names are those of their respective owners.

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
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

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℃
RELATIVE HUMIDITY	10 to 80% non-condensing
IP RATING	IP20
MANUFACTURER	Avi-On

Bluetooth® Lighting Controls

SENSOR COVERAGE PATTERNS

Side View

8' height: ø24' coverage
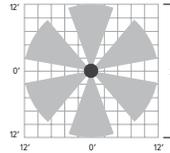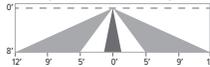
SENSOR DETAIL

Dimensions: 13/16" x 2-1/4"

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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
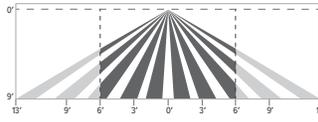
Motion Sensor Coverage

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
AWNR	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.
AWNR-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.

OCCSS LSXR-10-120-277 Sensor Switch PIR motion sensor, 120-277V
OCCSS LSXR-10-347/480 Sensor Switch PIR motion sensor, 347/480V

SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	7′ – 15′
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 60°C
RELATIVE HUMIDITY	Up to 90% non-condensing

SENSOR COVERAGE PATTERNS

9′ height: ø56′ coverage
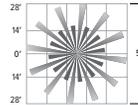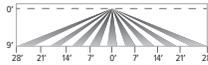
SENSOR DETAIL

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	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

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