

CATALOG #: _____

TYPE: _____

PROJECT: _____



FEATURES

- Diffuse acrylic lens enhances uniformity and minimizes glare
- 40°C max ambient operating temperature
- Diverse selection of mounting accessories for surface and suspended applications
- Channel connector furnished for continuous row applications (included with 8' units only)
- Special reflectors are available for precise light distribution
- Optional wireguard provides added protection
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING** – 22-gauge die-formed C.R.S.
- 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.
- SHIELDING** – Linear ribbed diffuse acrylic
- ELECTRICAL** – High-quality mid-power LED boards. L70 at 60,000 hours. 40°C maximum ambient operating temperature. 50°C maximum ambient operating temperature with HA Option, lumen restrictions apply. 50/60 Hz constant current driver.
- MOUNTING** – Surface (ceiling or wall) or suspended (hanging hardware required).
- LISTINGS** –
 - cETLus conforms to UL STD 1598. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations.
 - UL 924 available, see Options.
 - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at designlights.org/GPL
 - 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: 76R - 4 - L52/840 - OPTIONS - CONTROL/DIM - UNV

SERIES	LENGTH ^[1]	LUMENS ^[2]	CRI	CCT	OPTIONS ^[3]
76R	4 4' 8 8' ^[4]	4'	8 80 9 90	27 2700K 30 3000K 35 3500K 40 4000K 50 5000K	See page 3 for SPECIAL REFLECTOR OPTIONS . See page 3 for FINISH OPTIONS .
					EM/10W (L__) 10-watt emergency battery ^[7] Additional lower lumen packages available ^[8] Example: 8,000 nominal lumens = 76R-8-L104/835-(L80)
					HA High ambient operating temperature, 50°C ^[9]
					WG-76R11 11-gauge white powder coat wireguard
					WG-76R14 14-gauge white powder coat wireguard
					SS-12 Single stem and canopy, 12" ^[10]
					SWS-12 Swivel stem and canopy, 12" ^[11]
					GAT GAT fastener (T-bar clip)
	8'	8'			VBY (2) Y-hangers
					VBY-2 (2) Y-hangers with 2' chains
					SMH-76R Surface mount hanger
					SHS-76R Surface mount hanger for grid ceilings
					QC__ Quick-connect wiring harness ^[12]
					GEN Approved for UL 924 emergency generator circuit through-feed wiring ^[13]

AIRCRAFT CABLES (EXAMPLE: ACFL/D48) ^[14]

Prefix	Type	Length
ACFL/ Feeder	D 1" grid & hardpan	24 24"
ACJL/ Joiner	N 9/16" grid	48 48"
	S Slot grid	96 96"

CONTROL ^[15]

See page 5 for **ADDITIONAL CONTROL OPTIONS**.

–	None
AVI-LVFA	Avi-on wireless fixture control ^[16]
AVI-LVFA-PIR-ELB	Avi-on wireless fixture control with PIR motion and daylight sensor, end mount ^[17]
AWN	Lutron Athena wireless node integral fixture control, RF only ^[18]

DRIVER

See page 6 for **ADDITIONAL 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 ^[19]
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2) ^[20]

VOLTAGE

120	120V
277	277V
UNV	120-277V
480	480V with stepdown transformer ^[21]

NOTES

- For actual length, see page 2 for **FIXTURE DETAILS**.
- Lumen output based on 80 CRI/4000K CCT. Actual performance may vary +/-5%, see page 2 for **FIXTURE PERFORMANCE DATA**.
- See page 3 for **MOUNTING DETAILS**.
- Ships with (2) 4' lenses.
- 30°C maximum ambient operating temperature.
- 30°C maximum ambient operating temperature.
- 30° maximum ambient operating temperature.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- L72 max for 4', L144 max for 8'. Not available with EM batteries.
- Two stem sets required. One additional stem set required for each row mounted fixture.

- Two stem sets required. One additional stem set required for each row mounted fixture.
- See page 2 for **QUICK-CONNECT OPTIONS**.
- Maximum mounting height is 26.2' (8.0 m). Minimum lumen output is 400 lm/ft. See hew.com/UL924 for details.
- VBY hanger(s) included. Units specified with aircraft cable require cord. See page 3 for **MOUNTING DETAILS**.
- See page 3 for **SENSOR & NODE PLACEMENT DETAILS**. See page 4 for **AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS**.
- DA Driver only.
- DA Driver only.
- DA and DSR Drivers only.
- Avi-on and Lutron Athena Controls only.
- Lutron Vive and Athena Controls only.
- Not available with EM batteries, DA, or DSR driver.



76R LED Round Lens Strip

FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
4'	L30	3067	20.3	151
	L52	5261	35.8	147
	L72	7212	50.2	144
	L94	9418	68.6	137
8'	L60	6134	39.8	154
	L104	10523	69.5	151
	L144	14425	100.5	144
	L188	18836	137.1	137

- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/4000K 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.

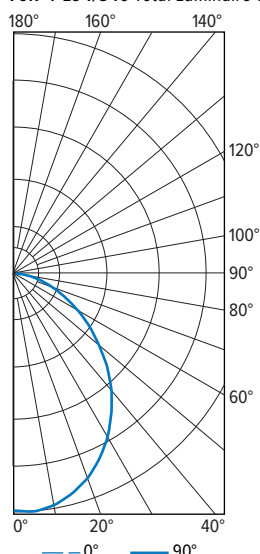
MULTIPLIER TABLE

COLOR TEMPERATURE	
CCT	CONVERSION FACTOR
2700K	0.94
3000K	0.96
3500K	0.97
4000K	1.00
5000K	1.03

CCT	
CCT	CONVERSION FACTOR
2700K	0.77
3000K	0.79
3500K	0.80
4000K	0.83
5000K	0.86

PHOTOMETRY

76R-4-L94/840 Total Luminaire Output: 9418 lumens; 68.6 Watts | Efficacy: 137.3 lm/W | 80 CRI; 4000K CCT

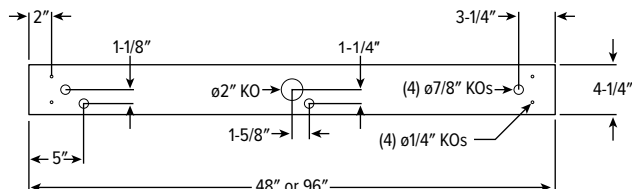


VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	3041	3041	3041	
5	3067	3019	3010	288
15	2910	2905	2926	821
25	2599	2674	2746	1231
35	2171	2340	2469	1458
45	1676	1928	2113	1478
55	1177	1490	1706	1311
65	715	1046	1284	1023
75	358	701	908	711
85	71	445	633	446
90	0	347	516	
95	0	274	442	273
105	0	166	305	168
115	0	105	210	102
125	0	65	141	58
135	0	41	90	31
145	0	8	50	13
155	0	0	37	6
165	0	0	12	1
175	0	0	0	0
180	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2339	25
	0 - 40	3798	40
	0 - 60	6586	70
	0 - 90	8766	93
	90 - 120	543	6
	90 - 150	645	7
	90 - 180	652	7
	0 - 180	9418	100

FIXTURE DETAILS

BACKVIEW



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



H.E. Williams, Inc.

Carthage, Missouri

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Designed and Manufactured in the USA

Information contained herein is subject to change without notice.

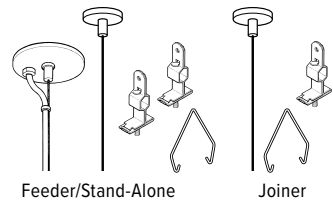
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Strips
Page 2 of 6

76R LED Round Lens Strip

MOUNTING DETAILS

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



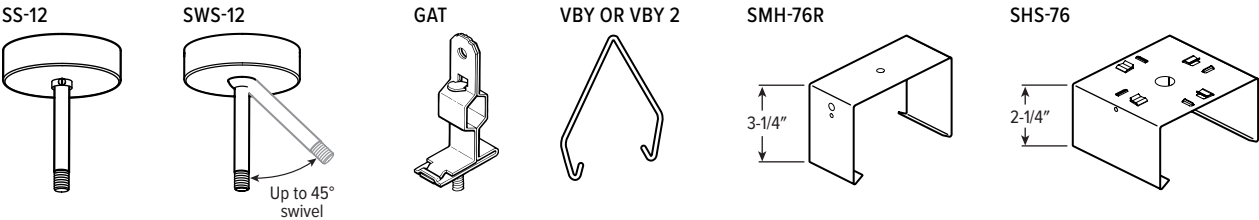
- Notes:
- Fixtures are provided with adjustable length aircraft cables, (2) VBY hangers and mounting hardware, must specify.
 - Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
 - The feeder kits are standard with 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

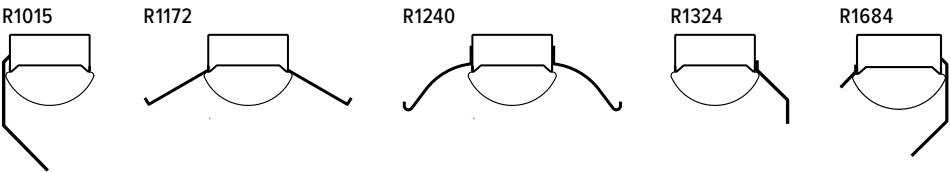
Units specified with aircraft cable require cord. Please specify cord type using ordering information below. Long fixture rows may require multiple feed points based on 18ga conductor size.

EXAMPLE: S2438D/W				
CORD TYPE	LENGTH	# OF COND. ^[1]	WIRE SIZE	COLOR
S	24 24"	3	8D 18ga	/W White /B Black
	48 48"	4		
	96 96"	5		

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



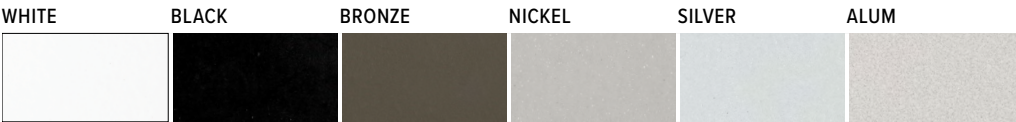
SPECIAL REFLECTOR OPTIONS



Clear polycarbonate reflector aligners for continuous row applications are supplied with reflectors.

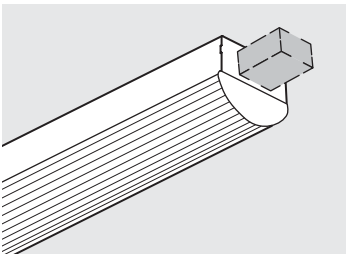
Only R1172 and R1240 can be used with wireguard accessories.

FINISH OPTIONS



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



SEE NEXT PAGE FOR CONTROL DETAILS.



76R LED Round Lens Strip

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 areas to large garages
- 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-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

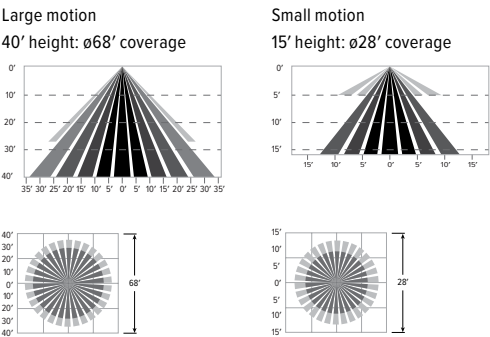
NETWORK	
AVI-RAB-LTE	Remote access bridge
AVI-NTM	Network time manager with battery backup
CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

For load controllers and additional accessory info, see hew.com/avi-on

AVI-LVFA-PIR-ELB Avi-on wireless fixture control with PIR motion and daylight sensor, end mount. DA Driver only.

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 45'
LENS	Single lens detects high and low bay motion.
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 70°C
RELATIVE HUMIDITY	90 to 95% at 30°C
COMMISSIONING	App (iOS or Android)
SYSTEM REQUIREMENTS	Avi-On wireless fixture controls plus desktop and mobile apps
MANUFACTURER	Avi-On
	

SENSOR COVERAGE PATTERNS



SENSOR DETAIL



76R LED Round Lens Strip

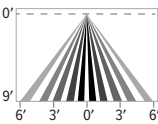
ADDITIONAL CONTROL OPTIONS

VDO Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC). DSR or LDE Drivers only. LDE drivers require driver interface

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	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: 2-11/16" x 1"

VIVE CONTROL OPTIONS

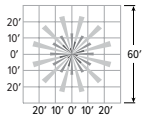
CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver
VDO/DBI	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver

OCCWS-FSP-311B-L-120/277 Wattstopper PIR motion and daylight sensor, 120/277V. Must specify lens: L2, L3, or L7

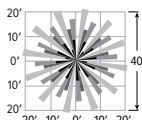
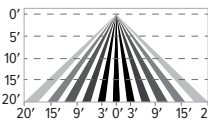
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 40'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 75°C
COMMISSIONING	App (iOS or Android)

SENSOR COVERAGE PATTERNS

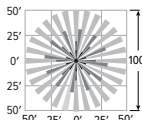
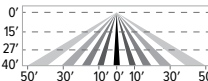
L2 8' height: ø48' coverage



L3 20' height: ø40' coverage



L7 40' height: ø100' coverage



SENSOR DETAIL

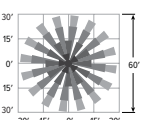
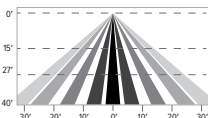


OCCLV-OSFHU-ITW-120-347 Leviton PIR motion sensor, 120-347V.

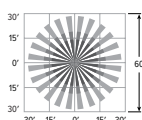
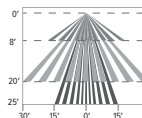
SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	8' – 40'
LENS	Interchangeable high bay, low bay or aisle mask
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 71°C
RELATIVE HUMIDITY	20% to 90% non-condensing

SENSOR COVERAGE PATTERNS

High bay
40' height: ø60' coverage



Low bay
25' height: ø60' coverage



SENSOR DETAIL

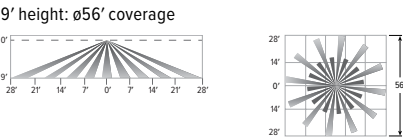


76R LED Round Lens Strip

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



SENSOR DETAIL



ADDITIONAL DRIVER OPTIONS

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

CATALOG NUMBER	DESCRIPTION
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)
DA	Driver with 12V auxiliary power, without external dimming wires
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming driver

