

CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_



## FEATURES

- Diffuse acrylic lens enhances uniformity and minimizes glare
- High-performance up to 154 lm/W
- 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.
- 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.
  - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at [designlights.org/QPL](https://designlights.org/QPL).
  - Complies with the Buy American Act and other federal regulations. Request certification at [hew.com/baa](https://hew.com/baa).
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](https://hew.com/warranty).

## ORDERING EXAMPLE: 76R - 4 - L52/840 - OPTIONS - CONTROL/DIM - UNV

### ORDERING INFO

SERIES	LENGTH <sup>[1]</sup>	LUMENS <sup>[2]</sup>	CRI	CCT	OPTIONS <sup>[3]</sup>
76R	4 4'	4'	8 80	27 2700K	EM/10W 10-watt emergency battery <sup>[8]</sup>
	8 8 <sup>[4]</sup>	L30 3,000lm	9 90 <sup>[7]</sup>	30 3000K	(L___) Additional lower lumen packages available. <sup>[9]</sup>
		L52 5,200lm		35 3500K	Example: 8,000 nominal lumens = 76R-8-L104/835-(L80)
		L72 7,200lm		40 4000K	QC___ Quick-connect wiring harness. <sup>[10]</sup>
		L94 9,400lm <sup>[5]</sup>		50 5000K	WG-76R11 11-gauge white powder coat wireguard
		8'			WG-76R14 14-gauge white powder coat wireguard
		L60 6,000lm			SS-12 Single stem and canopy, 12" <sup>[11]</sup>
		L104 10,400lm			SWS-12 Swivel stem and canopy, 12" <sup>[12]</sup>
		L144 14,400lm			GAT GAT fastener (T-bar clip)
		L188 18,800lm <sup>[6]</sup>			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
					HA High ambient operating temperature, 50°C <sup>[13]</sup>

### AIRCRAFT CABLES (EXAMPLE: ACFL/D48) <sup>[14]</sup>

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 <sup>[15]</sup>

See page 5 for ADDITIONAL CONTROL OPTIONS.

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

### DRIVER

See page 6 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 <sup>[19]</sup>
DSR	Sensor-ready driver without external dimming wires <sup>[20]</sup>

### VOLTAGE

120	120V
277	277V
UNV	120-277V
480	480V with stepdown transformer <sup>[21]</sup>

## 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 FINISH OPTIONS. Custom colors available upon request. See page 3 for MOUNTING DETAILS. See page 3 for SPECIAL REFLECTOR OPTIONS..
- Ships with (2) 4' lenses.
- 30°C maximum ambient operating temperature.
- 30°C maximum ambient operating temperature.
- Extended lead times may apply. Consult factory for availability.
- 30° maximum ambient operating temperature.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- See page 2 for QUICK-CONNECT OPTIONS.
- 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.
- L72 max for 4', L144 max for 8'. Not available with EM batteries.
- 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 drivers.



# 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

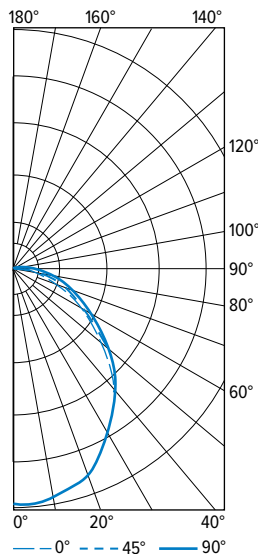
### MULTIPLIER TABLE

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.94
	3000K	0.96
	3500K	0.97
	4000K	1.00
	5000K	1.03
90 CRI	2700K	0.77
	3000K	0.79
	3500K	0.80
	4000K	0.83
	5000K	0.86

- 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.

## PHOTOMETRY

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

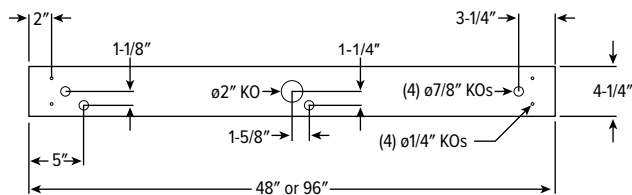


VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	3041	3041	3041	
5	3067	3019	3010	288
15	2910	2905	2926	821
25	2599	2674	2746	1231
35	2171	2340	2469	1458
45	1676	1928	2113	1478
55	1177	1490	1706	1311
65	715	1046	1284	1023
75	358	701	908	711
85	71	445	633	446
90	0	347	516	
95	0	274	442	273
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.

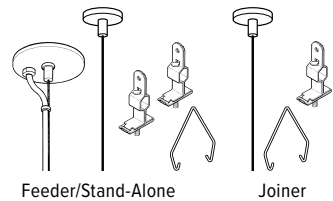
DESIGNATION	NUMBER OF 16GA WIRES FACTORY CONNECTED (EXCLUDING GROUND)	WIRE COLOR/POWER SUPPLY FACTORY CONNECTIONS	TYPICAL USE
QCBW	2	Black, White	On/off switching (DRV) or line voltage dimming (DIM LINE)
QCRW	2	Red, White	Alternating circuits on/off switching (DRV) or line voltage dimming (DIM LINE)
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



# 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.

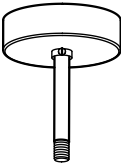
### CORD FOR SUSPENDED PRODUCT

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.

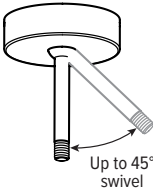
EXAMPLE: S2438D/W				
CORD TYPE	LENGTH	# OF COND. <sup>1</sup>	WIRE SIZE	COLOR
S	24 24"	3	8D 18ga	/W White /B Black
	48 48"	4		
	96 96"	5 6		

<sup>1</sup> Includes (2) 22ga purple & pink dimming conductors

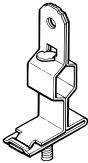
SS-12



SWS-12



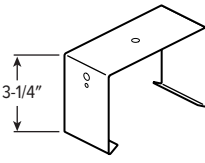
GAT



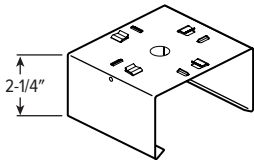
VBY OR VBY 2



SMH-76R

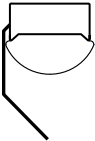


SHS-76

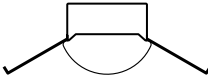


## SPECIAL REFLECTOR OPTIONS

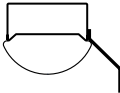
R1015



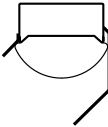
R1172



R1324



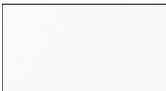
R1684



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

## FINISH OPTIONS

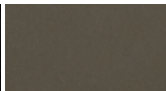
WHITE



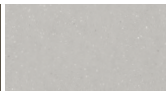
BLACK



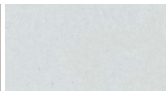
BRONZE



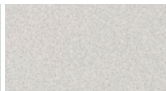
NICKEL



SILVER

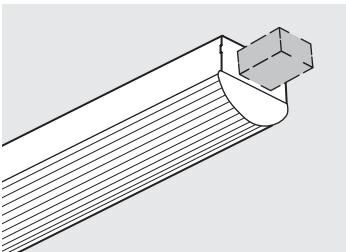


ALUM



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



SEE NEXT PAGE FOR CONTROL DETAILS.



# 76R LED Round Lens Strip

## 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 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		NETWORK	
AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC	AVI-RAB-LTE	Remote access bridge
AVI-2402BAT	Scene controller - numbered 1-4, battery powered	AVI-KIT-NTM	Network time manager with battery backup
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC	CEILING MOUNT SENSORS	
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered	AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-2401AC-3	On/off/dimming, 120-277VAC	AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit
AVI-2402BAT-3	On/off/dimming, battery powered		

For load controllers and additional accessory info, see [hew.com/avi-on](http://hew.com/avi-on)

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

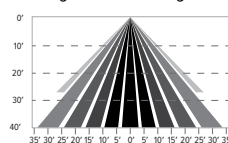
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 45'
LENS	Single lens detects high and low bay motion.
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 70°C
RELATIVE HUMIDITY	90 to 95% at 30°C
COMMISSIONING	App (iOS or Android)
SYSTEM REQUIREMENTS	Avi-On wireless fixture controls plus desktop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



### SENSOR COVERAGE PATTERNS

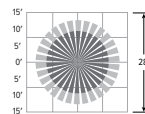
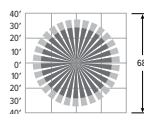
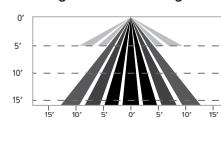
#### Large motion

40' height: ø68' coverage



#### Small motion

15' height: ø28' coverage



### SENSOR DETAIL



# 76R LED Round Lens Strip

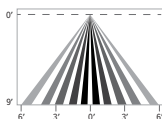
## ADDITIONAL CONTROL OPTIONS

**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

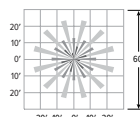
CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control, 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

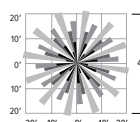
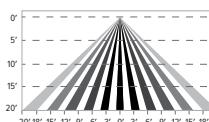
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 40'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 75°C
COMMISSIONING	App (iOS or Android)

### SENSOR COVERAGE PATTERNS

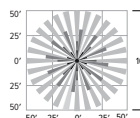
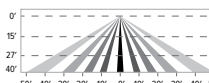
L2 8' height: ø48' coverage



L3 20' height: ø40' coverage



L7 40' height: ø100' coverage



### SENSOR DETAIL

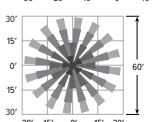
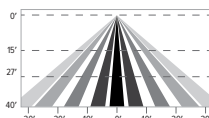


**OCCLV-OSFHU-ITW-120-347** Leviton PIR motion sensor, 120-347V.

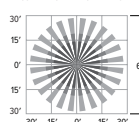
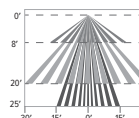
SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	8' – 40'
LENS	Interchangeable high bay, low bay or aisle mask
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 71°C
RELATIVE HUMIDITY	20% to 90% non-condensing

### SENSOR COVERAGE PATTERNS

High bay  
40' height: ø60' coverage



Low bay  
25' height: ø60' coverage



### SENSOR DETAIL



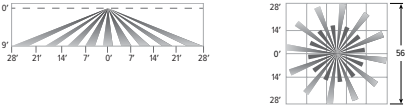
# 76R LED Round Lens Strip

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

9' height: ø56' coverage



### SENSOR DETAIL



### ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at [hew.com/product-builder](http://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

