82 LED Premium Industrial

Williams

7/8" KO

7"

14"

CATALOG #: _____

Type: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT

FEATURES

- Two heavy-duty, spring-loaded quarter-turn fasteners secure reflector to housing
- Channel connector furnished for continuous row applications
- Heavy-duty ribbed reflector
- High-performance up to 159 lm/W
- Diverse selection of mounting accessories for surface and suspended applications
- Optional wireguard provides added protection
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – 20-gauge die-formed, ribbed C.R.S.
- REFLECTOR – 22-gauge die-formed, ribbed 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.
- ELECTRICAL – High-quality mid-power LED boards. L85 at 50,000 hours. 45°C maximum ambient operating temperature.
- MOUNTING – Surface or suspended.
- 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.

ORDERING EXAMPLE: 82 ‑ 4 ‑ L107/840 ‑ OPTIONS ‑ CONTROL/DIM ‑ UNV

ORDERING INFO

SERIES	LENGTH	LUMENS [1]	CRI	CCT	OPTIONS
82	4 4'	L64 6,400lm	8 80	35 3500K	EM/10W 10-watt emergency battery
	8 8'	L107 10,700lm		40 4000K	(L__) Additional lower lumen packages available. Example: 9,500 lumens = 82-4-L107/840-(L95) [2]
		L128 12,800lm		50 5000K	QC__ Quick-connect wiring harness. [3]
		L214 21,400lm			WG-8211 11-gauge white powder coat wireguard
					WG-8214 14-gauge white powder coat wireguard
					RA-82 (2) Steel reflector row aligners
					MSA Myers sway adapter
					T-2 Tong hanger
					325 1-1/2" ceiling spacer
					GAT GAT fastener (T-bar clip)
					VBY (2) Y-hangers
					VBY-2 (2) Y-hangers with 2' chains

CONTROL [4]

See page 5 for ADDITIONAL CONTROL OPTIONS.

–	None
AVI-LVFA	Avi-on wireless fixture control [5]
AVI-LVFA-PIR-ELB	Avi-on wireless fixture control with PIR motion and daylight sensor, end mount [6]

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 [7]

VOLTAGE

120	120V
277	277V
UNV	120-277V
480	480V with stepdown transformer [8]

NOTES

[1] Lumen output based on 80 CRI/4000K CCT. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see options.

[2] Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.

[3] See page 3 for QUICK-CONNECT OPTIONS.

[4] See page 3 for SENSOR PLACEMENT DETAILS. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.

[5] DA Driver only.

[6] DA Driver only.

[7] Avi-on Controls only.

[8] Not available with EM batteries or DA Driver.

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FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
4'	L64	6526	42.8	152
4'	L107	10828	68.3	159
8'	L128	12887	81.9	157
8'	L214	21656	136.7	158

MULTIPLIER TABLE

COLOR TEMPERATURE	
CCT	CONVERSION FACTOR
3500K	0.97
4000K	1.00
5000K	1.03

- 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

82-4-L107/840-DRV-UNV Total Luminaire Output: 10828 lumens; 68.3 Watts | Efficacy: 159 lm/W | 80 CRI; 4000K CCT
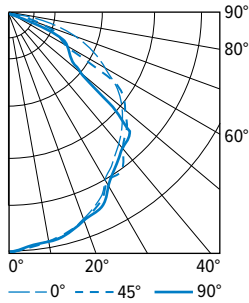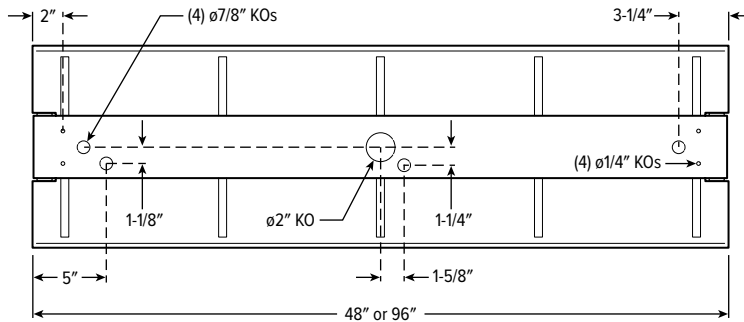

CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	4043	4043	4043	
5	4108	4001	3996	383
15	3996	3889	4043	1116
25	3762	3791	3653	1714
35	3423	3324	3324	2117
45	2949	2904	2866	2216
55	2337	2315	1201	1718
65	1616	880	863	1087
75	787	175	163	400
85	92	46	20	77
90	3	12	0	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	3213	30
0 - 40	5329	49
0 - 60	9263	86
0 - 90	10828	100
0 - 180	10828	100

FIXTURE DETAILS

BACKVIEW

MOUNTING DETAILS

MSA   325   GAT   T-2   VBY | VBY-2   WG-8011 | WG-8014   RA-82

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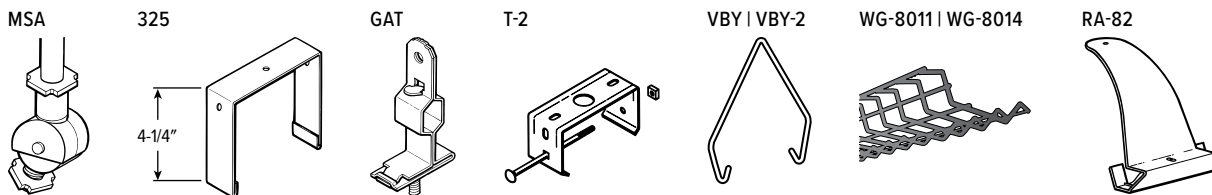
QUICK-CONNECT OPTIONS

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

SENSOR PLACEMENT DETAILS
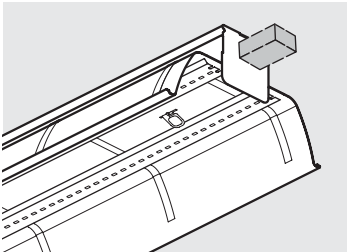
SEE NEXT PAGE FOR CONTROL DETAILS.

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
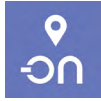- Flexible control strategies

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

Remote Management & Monitoring

Mobile Apps

Wall Stations

Remote Access Bridge

Ceiling Sensors

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ACCESSORIES

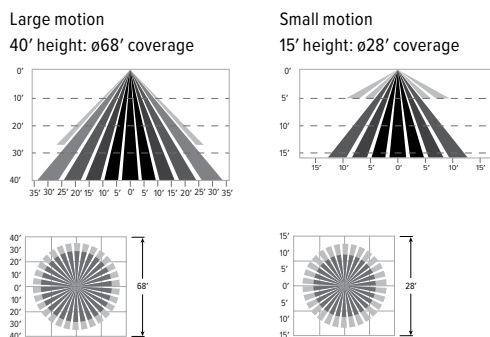| WALL STATIONS	
AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC
AVI-2402BAT	Scene controller - numbered 1-4, battery powered
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered
AVI-2401AC-3	On/off/dimming, 120-277VAC
AVI-2402BAT-3	On/off/dimming, battery powered

NETWORK	
AVI-RAB-LTE	Remote access bridge
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

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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
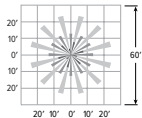
SENSOR DETAIL

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ADDITIONAL CONTROL OPTIONS

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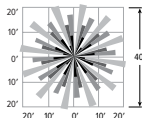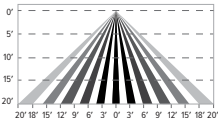
SPECIFICATIONS

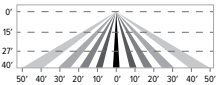|	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 40'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 75°C
COMMISSIONING	App (iOS or Android)

SENSOR COVERAGE PATTERNS

L2 8' height: ø48' coverage

L3 20' height: ø40' coverage
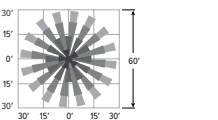

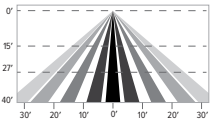**L7** 40' height: ø100' coverage
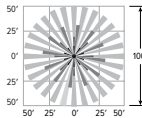
SENSOR DETAIL

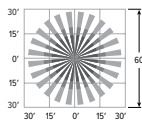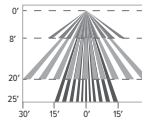**OCCLV-OSFHU-ITW-120-347** Leviton PIR motion sensor, 120-347V.

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

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
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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