GL LED
Low-Profile Industrial

Williams

CATALOG #: _____

3-13/16″

14-3/16″

TYPE: _____

PROJECT: _____

FEATURES

BUY AMERICAN ACT COMPLIANT

- Aluminum housing for maximum heat dissipation
- Quick-wire access plate for easy installation
- Narrow distribution and uplight options provide tailored performance
- Shallow fixture depth of less than 4″ allows fixture placement near the ceiling for maximum space utilization and reduces damage incurred from material handling equipment
- Uplight modules available to illuminate dark ceilings
- High and low ambient options for extreme temperatures
- Piano hinge and steel door frame options
- Optional wireguard provides added protection
- High-performance up to 162 lm/W
- Available with Avi-on wireless fixture controls
- Made Right Here® in the USA

SPECIFICATIONS

- **HOUSING** – Die-formed aluminum housing.
- **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. L70 at 50,000 hours. 40°C maximum ambient operating temperature standard. 60°C max when specified with HA option. 25°C max when specified with alternate drivers. -40°C minimum operating temperature when specified with LA40 option.
- **MOUNTING** – Suspended. Indoor applications only.
- **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 www.hew.com/warranty.

avi-on®
Bluetooth® Lighting Controls

ORDERING EXAMPLE: GL - 4 - L200/840 - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES	LENGTH	LUMENS [1]	CRI	CCT
GL	4 4′	L150 15,000lm	8 80	30 3000K
		L200 20,000lm	9 90 [2]	35 3500K
		L300 30,000lm		40 4000K
		L400 40,000lm		50 5000K

OPTIONS [3]

EM/10W/BMTD	Back-mounted 10-watt emergency battery [4]	WGC11	11-gauge wireguard, white powder coated, field-installed [15]
EM/14W/BMTD	Back-mounted 14-watt emergency battery [5]	WGC11 F&I	11-gauge wireguard, white powder coated, factory-installed [16]
(L__)	Additional lower lumen packages available. [6] Example: 18,000 nominal lumens = GL-4-L200/840-(L180)	VBY	(2) Y-hangers
		VBY-2	(2) Y-hangers with 2′ chains
HA	High ambient temperature, 60°C [7]	GC2/Y18/5	Cable suspension kit, 5′ length (1 pair)
LA40	-40°C minimum operating temperature	GC2/Y18/10	Cable suspension kit, 10′ length (1 pair)
UP	Uplight module, back-mounted [8]	HUB MT 3/4″	Cast iron hub and junction box for single 3/4″ pendant mount [17]
ND	Narrow distribution [9]	HUB/HOOK MT	Cast iron hub with mounting hook [18]
PHSCHA118	Piano hinge steel door frame, clear, high-temperature, non-prismatic acrylic, .118″ thick [10]	HOOK/CABLE	Hook and cable mounting kit, 10′
		3SB	3″ spacer bracket (1 pair)
PHSAF118	Piano hinge steel door frame, non-prismatic diffuse acrylic, .118″ thick [11]	6CPI/L5-15P/TWLK	6′ cord and NEMA twistlock 15 AMP plug, 120V [19]
SCHA118	Steel door frame, clear, high-temperature, non-prismatic acrylic, .118″ thick [12]	6CPI/L7-15P/TWLK	6′ cord and NEMA twistlock 15 AMP plug, 277V [20]
		S7238/B	72″ cord, 3-conductor, No. 18 AWG, black [21]
SAF118	Steel door frame, non-prismatic diffuse acrylic, .118″ thick [13]	S7258/B	72″ cord, 5-conductor, No. 18 AWG, black [22]
SAF12125	Steel door frame, frosted acrylic #12, .125″ thick [14]		

CONTROLS [23]

–	None
AVI-LVFA	Avi-on wireless fixture control [25]
AVI-LVFA-PIR-ELB	Avi-on wireless fixture control with PIR motion and daylight sensor, end mount [26]

DRIVER [24]

DIM	Driver with external dimming wires
DRV	Driver without external dimming wires
DA	Driver with 12V auxiliary power, without external dimming wires [27]

VOLTAGE

120	120V
208	208V
240	240V
277	277V
UNV	120-277V
347	347V [28]
480	480V with stepdown transformer [29]

NOTES

1. Lumen output based on 80 CRI/4000K CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen package available, see options.
2. Extended lead times may apply. Consult factory for availability.
3. See page 3 for MOUNTING DETAILS.
4. Increases fixture height. See page 3 for OPTIONS DETAILS.
5. Increases fixture height. See page 3 for OPTIONS DETAILS.
6. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
7. L200 maximum lumen package; not available with EM, ND, or door frame options.
8. Nominal 1,300 lumens module output; 15W; increases fixture height. See page 3 for OPTIONS DETAILS.
9. L300 maximum lumen package; See page 2 for FIXTURE PERFORMANCE DATA. Not available with HA option.
10. L300 maximum lumen package.
11. L300 maximum lumen package.
12. L300 maximum lumen package.
13. L300 maximum lumen package.
14. L300 maximum lumen package.
15. Shipped separately.
16. Not for use with door frame accessories.
17. Shipped separately.
18. Shipped separately.
19. DRV only.
20. DRV only.
21. DRV only.
22. DIM only.
23. See page 5 for ADDITIONAL CONTROL OPTIONS. See page 3 for SENSOR PLACEMENT DETAILS. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
24. Consult factory for additional driver options.
25. DA Driver only.
26. DA Driver only.
27. Avi-on Controls only.
28. Not available with EM batteries or Avi-on Controls.
29. Not available with EM batteries or Avi-on Controls.

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FIXTURE PERFORMANCE DATA

LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	NARROW DISTRIBUTION (ND) OPTION		
				DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L150	14590	90	162	13860	90	154
L200	20193	148	136	19041	136	140
L300	30289	222	136	25407	209	122
L400	40385	296	136	–	–	–

- 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 4000K, 80 CRI, actual lumens 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
80 CRI	3000K	0.96
	3500K	0.97
	4000K	1.00
	5000K	1.03
90 CRI	3000K	0.79
	3500K	0.80
	4000K	0.83
	5000K	0.86

PHOTOMETRY

GL-4-L400/840-DRV-UNV Total Luminaire Output: 40385 lumens; 296 Watts | Efficacy: 136 lm/W | 82 CRI; 4000K CCT
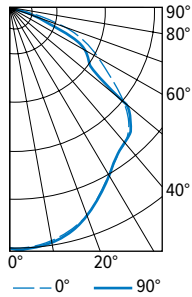
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0º	45º	90º	
0	14689	14689	14689	
5	14477	14477	14486	1384
15	14162	14220	14220	3996
25	12833	12897	12846	5940
35	11298	11316	11343	7150
45	10382	10405	10519	7934
55	7775	8113	6116	6731
65	5388	4316	4394	4720
75	2529	1686	1557	2115
85	467	302	344	416
90	0	0	0	

| ZONE	LUMENS	% FIXTURE
0 - 30	11320	28
0 - 40	18469	46
0 - 60	33134	82
0 - 90	40385	100
0 - 180	40385	100

GL-4-L200/840-ND-DRV-UNV Total Luminaire Output: 19041 lumens; 136 Watts | Efficacy: 140 lm/W | 82 CRI; 4000K CCT
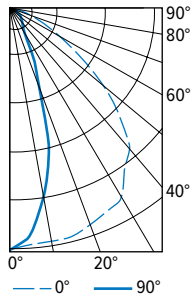
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0º	45º	90º	
0	19204	19204	19204	
5	18774	18326	17936	1706
15	18372	14452	11838	4063
25	17838	7983	4629	4347
35	15901	2867	1703	3419
45	12852	1372	1014	2481
55	7144	826	617	1602
65	3186	461	468	899
75	955	312	260	430
85	123	39	39	94
90	0	0	0	

| ZONE	LUMENS	% FIXTURE
0 - 30	10116	53
0 - 40	13535	71
0 - 60	17617	93
0 - 90	19041	100
0 - 180	19041	100

GL-4-L300/840-SCHA118-DIM-UNV Total Luminaire Output: 27865 lumens; 222 Watts | Efficacy: 126 lm/W | 82 CRI; 4000K CCT
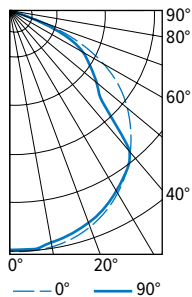
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0º	45º	90º	
0	10442	10442	10442	
5	10559	10363	10334	990
15	10286	10135	10090	2865
25	9756	9584	9561	4425
35	8816	8730	8715	5447
45	7533	7378	5632	5434
55	5797	4250	4306	4400
65	3581	2777	2716	3009
75	1424	958	707	1138
85	96	98	82	157
90	0	0	0	

ZONE	LUMENS	% FIXTURE
0 - 30	8280	30
0 - 40	13727	49
0 - 60	23560	85
0 - 90	27865	100
0 - 180	27865	100

GL-4-L300/840-SAF118-DIM-UNV Total Luminaire Output: 27260 lumens; 222 Watts| Efficacy: 123 lm/W | 82 CRI; 4000K CCT
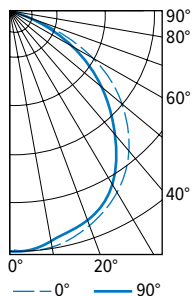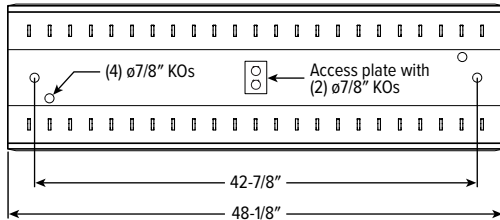

VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0º	45º	90º	
0	10526	10526	10526	
5	10687	10464	10393	998
15	10425	10218	10127	2886
25	9777	9614	9506	4426
35	8773	8646	8234	5332
45	7300	6955	6055	5251
55	5353	4577	4233	4236
65	3106	2579	2472	2699
75	1311	1074	1071	1207
85	158	145	157	226
90	0	0	0	

ZONE	LUMENS	% FIXTURE
0 - 30	8310	31
0 - 40	13641	50
0 - 60	23128	85
0 - 90	27260	100
0 - 180	27260	100

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FIXTURE DETAILS

BACKVIEW

(4) ø7/8" KOs

Access plate with
(2) ø7/8" KOs

42-7/8"

48-1/8"

L150 | L200

L300

L400

OPTIONS DETAILS

EM BATTERY

A

Back-mounted
battery box
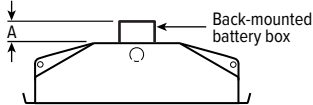
EM BATTERY	DIMENSION A
EM/14W/BMTD	1-5/16"
EM/10W/BMTD	1-3/16"

UPLIGHT

1"

EM battery

Uplight
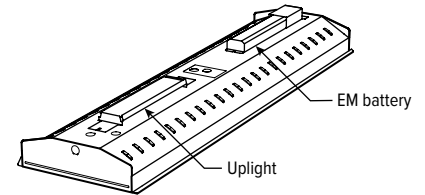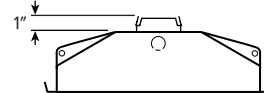
MOUNTING DETAILS

GC2/Y18/_

VBY | VBY-2

3SB SPACER BRACKET
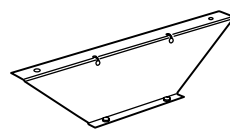
HUB MT 3/4"
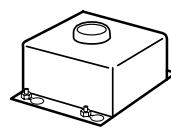
WGC11
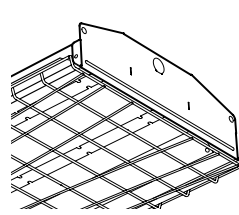
HUB/HOOK MT
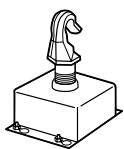
Mounting hook with safety screw allows
easy replacement of existing HID fixtures.
Hook attaches to the fixture with 3/4" cast
iron hub and junction box.

A 10' long aircraft cable and Y style hanger
with toggle clips are factory furnished for
leveling fixture from single support.

HOOK/CABLE
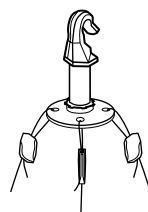
Hook and 10' cable mounting kit. Mounting
hook is secured to the structure by eye bolt
or loop (furnished by others).

Attached at the base of the hook is a
circular mounting plate with four (4) 10'
adjustable cables, oriented in 90° intervals,
suspended below.

SENSOR PLACEMENT DETAILS
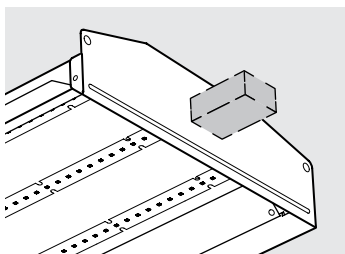
SEE NEXT PAGE FOR CONTROL DETAILS.

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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 areas to large garages
- 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

Wall Stations

Remote Management
& Monitoring

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

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

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

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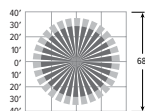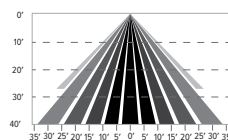
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 45'
LENS	Single lens detects high and low bay motion.
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 70°C
RELATIVE HUMIDITY	90 to 95% at 30°C
COMMISSIONING	App (iOS or Android)
SYSTEM REQUIREMENTS	Avi-On wireless fixture controls plus desktop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

Bluetooth® Lighting Controls

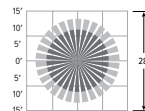### SENSOR COVERAGE PATTERNS

Large motion
40' height: ø68' coverage

Small motion
15' height: ø28' coverage

SENSOR DETAIL

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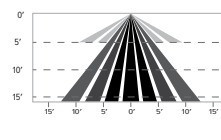
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ADDITIONAL CONTROL OPTIONS

OCCWS-FSP-321B-L_-120-480 Wattstopper PIR motion and daylight sensor using 0-10V internal control, 120V-480V. Must specify lens: L2, L3 or L7. Factory installed.
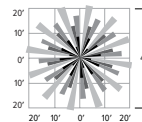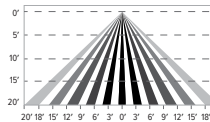
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8′ – 40′
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 75°C
COMMISSIONING	App (iOS or Android)

SENSOR COVERAGE PATTERNS

L2 8′ height: ø48′ coverage
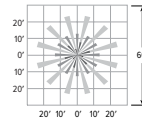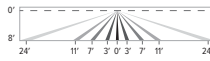
L3 20′ height: ø40′ coverage

L7 40′ height: ø100′ coverage
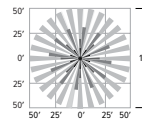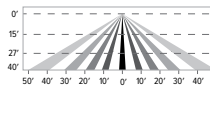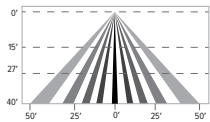

SENSOR DETAIL

OCCWS-HBP-111-L7-120/277/347 Wattstopper PIR motion and daylight hold off sensor, 120/277/347V. Adjustable via remote. Optional FSIR-100 remote controller available.
FSIR-100 Remote controller for HBP-111 sensor. Please specify quantity required per project. Ordered and shipped separately.
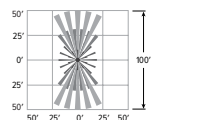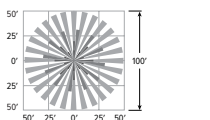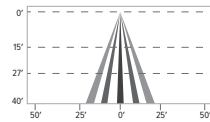
SPECIFICATIONS	
TYPE	PIR Motion + Daylight Hold Off
MOUNTING HEIGHT	15′ – 40′
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 70°C
RELATIVE HUMIDITY	5 to 95%, non-condensing
COMMISSIONING	FSIR-100 Remote

SENSOR COVERAGE PATTERNS

40′ height: ø100′ coverage

With mask: 40′ height: ø50′ coverage
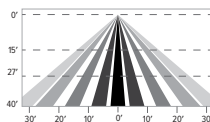

SENSOR DETAIL

OCCLV-OSFHU-ITW-120-347 Leviton PIR motion sensor, 120-347V
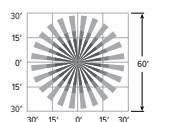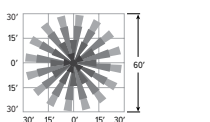**OCCLV-OSFHU-I4W-208/240/480** Leviton PIR motion sensor, 208/240/480V

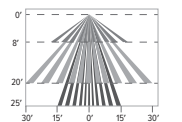| SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	8′ – 40′
LENS	Interchangeable high bay, low bay or aisle mask
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 71°C
RELATIVE HUMIDITY	20% to 90% non-condensing

SENSOR COVERAGE PATTERNS

High bay
40′ height: ø60′ coverage

Low bay
25′ height: ø60′ coverage

SENSOR DETAIL

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High Bay
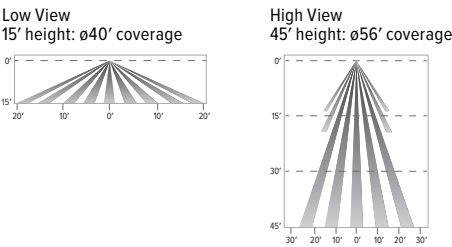Page 5 of 6

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OCCSS LSXR-6-120-277 Sensor Switch PIR motion sensor, 120-277V
OCCSS LSXR-6-347/480 Sensor Switch PIR motion sensor, 347/480V

SPECIFICATIONS

TYPE	PIR Motion
MOUNTING HEIGHT	15' – 45'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 60°C
RELATIVE HUMIDITY	Up to 90% non-condensing

SENSOR COVERAGE PATTERNS

Low View
15' height: ø40' coverage

High View
45' height: ø56' coverage

SENSOR DETAIL

H.E. Williams, Inc. ▪ Carthage, Missouri ▪ www.hew.com ▪ 417-358-4065 ▪ Designed and Manufactured in the USA
Information contained herein is subject to change without notice.   REV.05/19/23.LA

High Bay
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