

FD8A SERIES FLOODLIGHT

CONSTRUCTION

Rugged die-cast aluminum housing with hinged, die-cast aluminum door.
 Low profile, 3G vibration rated compact design minimizes wind load requirements.
 Driver enclosure cover opens downwards, completely sealed against moisture and dusty.

OPTICS

UV-resistant polycarbonate optics, available in Type V distribution.
 Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.

ELECTRICAL

80+ CRI Lumileds LED.
 Field Selectable Lumen / CCT Technology.
 -40°C up to 50°C (-40°F up to 122°F) maximum ambient temperature.
 Long-life 100,000 hr LED at L70 @ 40°C.
 Driver operates at 120-277V input, 0-10V dimmable driver, down to 10%.
 50/60Hz, <20% THD, 0.9 power factor. Optional 347/480V input. Optional 10kV surge protection. Optional dimming sensor for occupancy and photosensing.

SENSORS (OPTIONAL)

SENSOR-BLE-6-4T Integral PIR ALS Control Bluetooth/on/off/dimming/photosensing.
 SENSOR-ANT-6-4T Plug-N-Play PIR on/off/dimming/photosensing.
 SENSOR-PH-PB-U Integral button style photocell.
 SENSOR-PH-PT-U/UD/HD Twist lock dimming/non-dimming photocontrol.
 CONTROL-LVFA AVI-ON Bluetooth Mesh Controller.
 CONTROL-BLE-SK104-PH ALS Control Bluetooth Fixture Controller.

MOUNTING

Standard slipfitter for 2-3/8" tenon (SF) and adjustable trunnion mount (TR).
 Optional tilt-able pole mount bracket (SRT).

STANDARD FINISH

Corrosion resistant Dark Bronze powder coating finish.

CUSTOM FINISH

Corrosion resistant Black, Graphite Metallic, Gray, Silver, White, Custom RAL#.

CERTIFICATION

IP65 Wet location label standard.
 Meets Buy America Act requirements.
 Title 24 compliant; see local ordinance for qualification information.
 All luminaires are built to UL1598 standards and bear appropriate cULus labels.
 DLC® Premium (DesignLights Consortium Qualified) listed.

WARRANTY

5 year warranty, see Limited Warranty for additional information.

Client:
 Project:
 Type:
 Quantity:



100/140/180W w/Slipfitter



250/300/400W w/Slipfitter

SHIPPING DATA

Product	Measurement	Weight
FD8A-100	16"L x 14"W x 3"H	10 lb
FD8A-140	16"L x 14"W x 3"H	10 lb
FD8A-180	16"L x 14"W x 3"H	11 lb
FD8A-250	26"L x 14"W x 3"H	16 lb
FD8A-300	26"L x 14"W x 3"H	16 lb
FD8A-400	26"L x 14"W x 3"H	17 lb



FD8A SERIES FLOODLIGHT

ORDER INFORMATION **EXAMPLE : FD8A 180 SC T5 DB UNVD**

Fixture	Series	Power & LM	CCT	Distribution	Finish	Input
	FD8A		SC			

A SERIES

FD8A	Flood Light
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B POWER & LM

Code	Power	LM*	Efficacy (avg.)*
100	Field Selectable 40 / 60 / 80 / 100W	7,000 / 10,200 / 13,300 / 16,000	175lm/W
140	Field Selectable 60 / 90 / 120 / 140W	10,500 / 15,600 / 20,500 / 23,500	171lm/W
180	Field Selectable 72 / 108 / 144 / 180W	11,800 / 17,300 / 22,800 / 28,000	160lm/W
250	Field Selectable 100 / 150 / 200 / 250W	16,500 / 23,800 / 31,000 / 38,000	158lm/W
300	Field Selectable 120 / 180 / 240 / 300W	20,800 / 29,700 / 38,000 / 46,000	162lm/W

*LM Value & Efficacy based on 4000K

C CCT

SC	Field Selectable 3000K / 4000K / 5000K
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D DISTRIBUTION

T5	Type V
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E FINISH

Standard							
DB	Dark Bronze						
Custom Color							
CC	BK	Black	GM	Graphite Metallic	GR	Gray	
	SV	Silver	WH	White	RAL#		

F INPUT

UNVD	120-277V, 1-10V Dimmable	HVLD	347-480V, 1-10V Dimmable
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FD8A SERIES FLOODLIGHT

ORDER INFORMATION (CONTINUED)

Mounting

**Accessories
Options**

G MOUNTING

MOUNT-FD8A-SF	Slipfitter
MOUNT-FD8A-TR	Trunnion Mount
MOUNT-FD8A-SRT	Square/Round Pole Tilt-able 180°

H ACCESSORIES/OPTIONS

BAA	Assembled in America, compliant with BAA (COTS)
SHIELD-FD8A*	Backlight Shield on Lens
SHIELD-FD8A-VISOR-A / B*	4-Side Visor, A: 100 ~ 180W, B: 250 ~ 400W
SENSOR-ANT-6-4T**	Integral PIR on/off/dimming/photosensing
SENSOR-BLE-6-4T**	“Plug-N-Play” Integral Bluetooth Daylight Harvesting Sensor (ALS Control Mobile App)
SENSOR-PH-PB-U**	Button Style Photocell
SENSOR-PH-PT-U / UD / HD**	Twist Lock Photocell / U: 120-277V, UD: 120-277V, HD: 480V input
REMOTE-RC100	Handheld Remote Commissioning Tool for SENSOR-ANT (1 per job)
SURGE-LSP4-U/H	10kV inline Surge Protection for Universal input / U: 120-277V, H: 480V input
CONTROL-LVFA**	AVI-ON Bluetooth Mesh Control System
CONTROL-BLE-SK104-PH**	Integral Bluetooth Fixture Controller w/Button Photocell (ALS Control Mobile App)

*see page 9 for shield spec

**see page 10 for sensor spec

FD8A SERIES FLOODLIGHT

ORDER INFORMATION **EXAMPLE : FD8A 400 MC T5 DB UNVD**

Fixture	Series	Power & LM	CCT	Distribution	Finish	Input
	FD8A	400	MC			

A SERIES

FD8A Flood Light

B POWER & LM

Code	Power	LM*	Efficacy (avg.)*
400	Field Selectable 300 / 320 / 360 / 400W	47,500 / 51,500 / 56,500 / 61,000	160lm/W

*LM Value & Efficacy based on 4000K, T5 Distribution

C CCT

MC Field Selectable 4000K / 5000K

D DISTRIBUTION

T5 Type V

E FINISH

Standard

DB Dark Bronze

Custom Color

CC	BK	Black	GM	Graphite Metallic	GR	Gray
	SV	Silver	WH	White	RAL#	

F INPUT

UNVD 120-277V, 1-10V Dimmable **HVLD** 347V, 480V, 1-10V Dimmable

FD8A SERIES FLOODLIGHT

ORDER INFORMATION (CONTINUED)

Mounting

**Accessories
Options**

G MOUNTING

MOUNT-FD8A-SF	Slipfitter
MOUNT-FD8A-TR	Trunnion Mount
MOUNT-FD8A-SRT	Square/Round Pole Tilt-able 180°

H ACCESSORIES/OPTIONS

AIA	Assembled in America, compliant with BAA (COTS)
SHIELD-FD8A*	Backlight Shield on Lens
SHIELD-FD8A-VISOR-A / B*	4-Side Visor, A: 100 ~ 180W, B: 250 ~ 400W
SENSOR-ANT-6-4T**	Integral PIR on/off/dimming/photosensing
SENSOR-BLE-6-4T**	“Plug-N-Play” Integral Bluetooth Daylight Harvesting Sensor (ALS Control Mobile App)
SENSOR-PH-PB-U**	Button Style Photocell
SENSOR-PH-PT-U / UD / HD**	Twist Lock Photocell / U: 120-277V, UD: 120-277V, HD: 480V input
REMOTE-RC100	Handheld Remote Commissioning Tool for SENSOR-ANT (1 per job)
SURGE-LSP4-U/H	10kV inline Surge Protection for Universal input / U: 120-277V, H: 480V input
CONTROL-LVFA**	AVI-ON Bluetooth Mesh Control System
CONTROL-BLE-SK104-PH**	Integral Bluetooth Fixture Controller w/Button Photocell (ALS Control Mobile App)

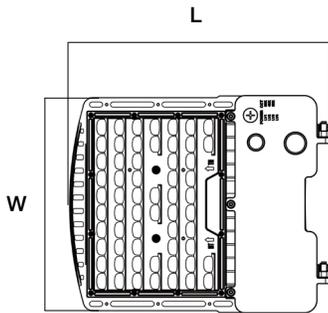
*see page 9 for shield spec

**see page 10 for sensor spec

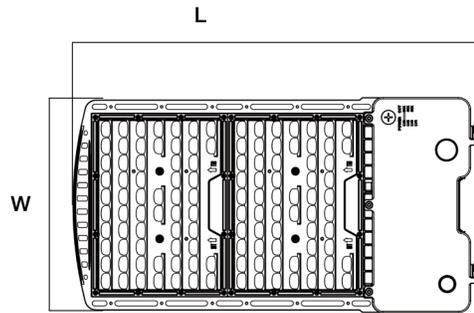
FD8A SERIES FLOODLIGHT

DIMENSIONS

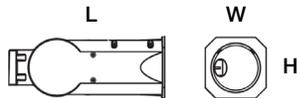
Model	L	W	H
FD8A-100 / 140 / 180	15.61" (396mm)	13.05" (331mm)	2.52" (64mm)
FD8A-250 / 300 / 400	24.98" (634mm)	13.05" (331mm)	2.52" (64mm)
Bracket - SF	10.00" (254mm)	3.35" (85mm)	3.35" (85mm)
Bracket - TR	5.93" (151mm)	1.97" (50mm)	5.43" (138mm)
Bracket - SRT	9.25" (235mm)	3.55" (90mm)	6.97" (177mm)



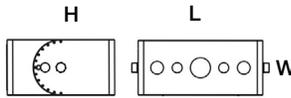
FD8A-100 / 140 / 180



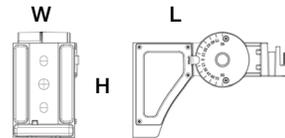
FD8A-250 / 300 / 400



SF (Slipfitter)



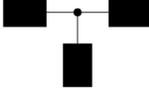
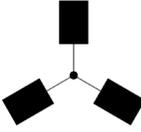
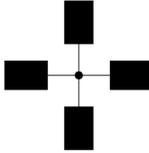
TR (Trunnion Mount)



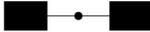
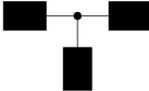
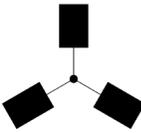
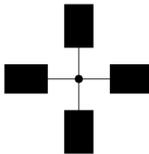
SRT (Tilt-able 180° Square/Round)

FD8A SERIES FLOODLIGHT

EPA (ft²) - FD8A-100 / 140 / 180

							
Tilt	Single	2 @ 90°	2 @ 120°	2 @ 180°	3 @ 90°	3 @ 120°	4 @ 90°
0	0.363	0.617	0.808	0.726	0.980	1.062	0.980
20	0.639	1.086	1.422	1.278	1.725	1.869	1.725
30	0.935	1.589	2.080	1.870	2.524	2.734	2.524
45	1.322	2.247	2.941	2.644	3.569	3.866	3.569
60	1.619	2.752	3.602	3.238	4.371	4.735	4.371
70	1.757	2.986	3.909	3.514	4.743	5.138	4.743
90	1.870	3.178	4.160	3.740	5.048	5.469	5.048

EPA (ft²) - FD8A-250 / 300 / 400

							
Tilt	Single	2 @ 90°	2 @ 120°	2 @ 180°	3 @ 90°	3 @ 120°	4 @ 90°
0	0.476	0.809	1.059	0.952	1.285	1.392	1.285
20	0.838	1.424	1.864	1.676	2.262	2.451	2.262
30	1.225	2.082	2.725	2.450	3.307	3.582	3.307
45	1.732	2.944	3.853	3.464	4.676	5.065	4.676
60	2.122	3.607	4.721	4.244	5.729	6.206	5.729
70	2.302	3.912	5.121	4.604	6.214	6.732	6.214
90	2.450	4.164	5.451	4.900	6.614	7.165	6.614

FD8A SERIES FLOODLIGHT

PERFORMANCE DATA								
SYSTEM WATTS	VOLTAGE	DIST. TYPE	3000K		4000K		5000K	
			LUMEN	LPW	LUMEN	LPW	LUMEN	LPW
FD8A-100 @ 40W	120-277V	V	6560	164	7000	175	6700	168
FD8A-100 @ 60W	120-277V	V	9600	160	10200	170	9850	164
FD8A-100 @ 80W	120-277V	V	12500	156	13300	166	12800	160
FD8A-100 @ 100W	120-277V	V	15100	151	16000	160	15600	156
FD8A-140 @ 60W	120-277V	V	9600	160	10500	175	10000	167
FD8A-140 @ 90W	120-277V	V	14000	156	15600	172	14500	161
FD8A-140 @ 120W	120-277V	V	18500	154	20500	171	19000	158
FD8A-140 @ 140W	120-277V	V	21000	150	23500	168	21500	154
FD8A-180 @ 72W	120-277V	V	10800	150	11800	164	11000	153
FD8A-180 @ 108W	120-277V	V	15800	146	17300	160	16200	150
FD8A-180 @ 144W	120-277V	V	20800	144	22800	158	21000	146
FD8A-180 @ 180W	120-277V	V	25500	142	28000	156	26000	144
FD8A-250 @ 100W	120-277V	V	15000	150	16500	165	15500	155
FD8A-250 @ 150W	120-277V	V	21800	145	23800	159	22500	150
FD8A-250 @ 200W	120-277V	V	28000	140	31000	155	28800	144
FD8A-250 @ 250W	120-277V	V	34500	138	38000	152	35500	142
FD8A-300 @ 120W	120-277V	V	18500	154	20800	173	19000	158
FD8A-300 @ 180W	120-277V	V	26600	148	29700	165	27500	153
FD8A-300 @ 240W	120-277V	V	34500	144	38000	158	35500	148
FD8A-300 @ 300W	120-277V	V	42500	142	46000	153	43500	145

FD8A SERIES FLOODLIGHT

PERFORMANCE DATA (CONTINUED)

SYSTEM WATTS	VOLTAGE	DIST. TYPE	3000K		4000K		5000K	
			LUMEN	LPW	LUMEN	LPW	LUMEN	LPW
FD8A-400 @ 300W	120-277V	V	-	-	47500	164	46500	160
FD8A-400 @ 320W	120-277V	V	-	-	51500	161	50500	159
FD8A-400 @ 360W	120-277V	V	-	-	56500	157	55500	154
FD8A-400 @ 400W	120-277V	V	-	-	61000	153	60800	152

DLC CODE

Part Number	DLC Product ID	DLC Class
FD8A-100SCT5-[DB, BK, WH][UNVD,HVLD][Blank, SENSOR-BLE-619-L3/L4, SENSOR-PH-PB-U, SENSOR-823-L3/L4, SENSOR-820]	PENDING	Premium
FD8A-140SCT5-[DB, BK, WH][UNVD,HVLD][Blank, SENSOR-BLE-619-L3/L4, SENSOR-PH-PB-U, SENSOR-823-L3/L4, SENSOR-820]	PENDING	Premium
FD8A-180SCT5-[DB, BK, WH][UNVD,HVLD][Blank, SENSOR-BLE-619-L3/L4, SENSOR-PH-PB-U, SENSOR-823-L3/L4, SENSOR-820]	S-C2P7XF	Premium
FD8A-250SCT5-[DB, BK, WH][UNVD,HVLD][Blank, SENSOR-BLE-619-L3/L4, SENSOR-PH-PB-U, SENSOR-823-L3/L4, SENSOR-820]	S-SW810V	Premium
FD8A-300SCT5-[DB, BK, WH][UNVD,HVLD][Blank, SENSOR-BLE-619-L3/L4, SENSOR-PH-PB-U, SENSOR-823-L3/L4, SENSOR-820]	S-W8FM1C	Premium
FD8A-400MCT5-[DB, BK, WH][UNVD,HVLD][Blank, SENSOR-BLE-619-L3/L4, SENSOR-PH-PB-U, SENSOR-823-L3/L4, SENSOR-820]	S-NG5310	Premium

FD8A SERIES FLOODLIGHT

SHIELD SPEC

SHIELD-FD8A

Backlight Shield on Lens

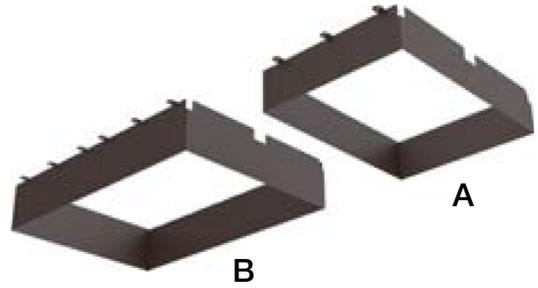
FD8A-100 ~ 180W 1:1
FD8A-250 ~ 400W 2:1



SHIELD-FD8A-VISOR

4-Side Metal Visor

A: FD8A-100 ~ 180W 1:1
B: FD8A-250 ~ 400W 1:1



FD8A SERIES FLOODLIGHT

SENSOR SPEC

Model	Type	Mounting	Coverage	Input	Function	Programmable
SENSOR-ANT-6-4T	PIR	up to 40FT	30FT radius	12V DC	On/Off/Dimming	REMOTE-RC100
SENSOR-BLE-6-4T (see page 12 for detail)	PIR	up to 40FT	30FT radius	12V DC	Bluetooth Mesh On/Off/Dimming Daylight Harvesting	ALS Control Bluetooth Mobile App
SENSOR-PH-PB-U	-	-	-	Universal	Dusk-to-Dawn Control	-
SENSOR-PH-PT-U SENSOR-PH-PT-UD SENSOR-PH-PT-HD	-	-	-	Universal 277 ~ 480V	Dusk-to-Dawn Control	-
CONTROL-LVFA (see page 11 for detail)	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App
CONTROL-BLE-SK104-PH (see page 13 for detail)	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling CCT Tuning	ALS Control Bluetooth Mobile Control



SENSOR-ANT-6-4T
 SENSOR-BLE-6-4T



SENSOR-PH-PB-U



SENSOR-PH-PT-U/H



SENSOR-PH-PT-HD



CONTROL-LVFA



CONTROL-BLE-SK104-PH

FD8A SERIES FLOODLIGHT

CONTROL-LVFA SPEC

Status LEDs & Config Button

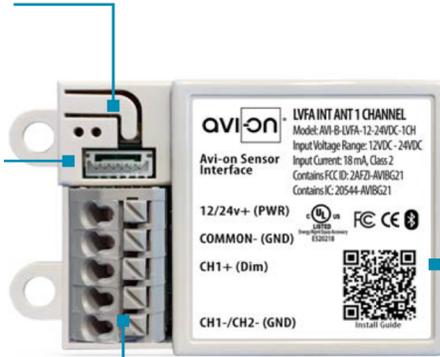
Quick and easy validation of wiring and network

Direct Connect™ Sensor Port

Simple and cost-effective addition to Avi-on sensors

Terminal Blocks & Mounting Tabs

Faster, easier and lower cost installation eliminating connectors



Internal Antenna

Improved performance and eliminates risk of accidentally cutting a hanging wire

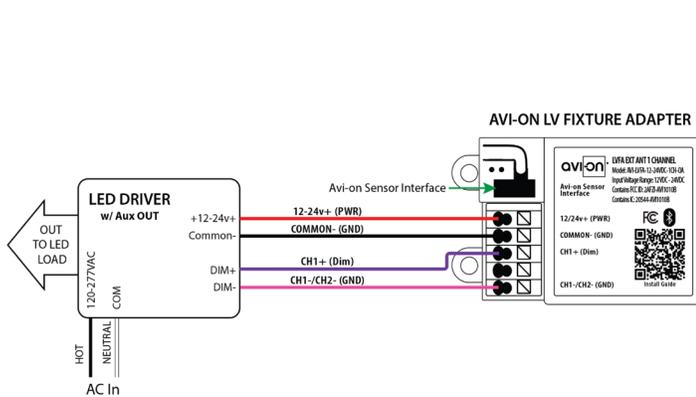
SPECIFICATIONS

INPUT VOLTAGE: 12-24VDC
CURRENT: 15mA without a Sensor
 19mA with a DC PIR Sensor
 48mA with a DC Microwave Sensor
0-10V DIMMING: 12-24VDC
SIZE: 2.30in x 1.43in x 0.75in
 (58.2mm x 36.4mm x 19mm)
MOUNTING: Removable mounting tabs
WEIGHT: 0.45 oz (16g)
OPERATING TEMP: -22°F to +158°F (-30°C to + 70°C)

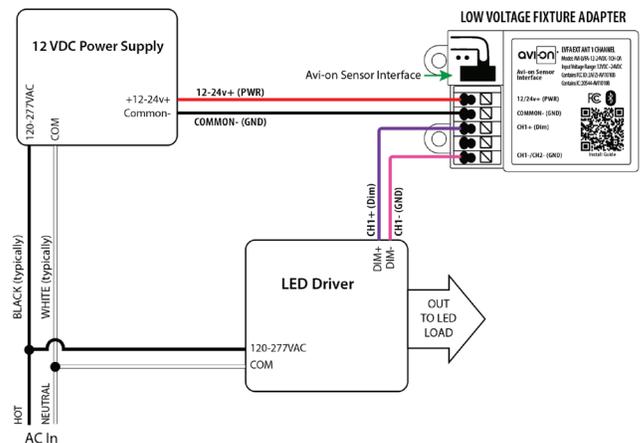
RADIO FREQUENCY: 2.4GHz
WIRELESS STANDARD: BLE 4.2 with Mesh
POINT TO POINT RANGE*: 80ft with obstructions
 350ft unobstructed
SECURITY: AES 128-bit encryption for device to device communication
 AES 256-bit encryption for device to cloud communication
WARRANTY: 5 years; 10 years optional
REGULATORY: FCC: 2AFZI-AVI1010 B
 IC: 20544-AVI1010 B
 BQB: D031801, DID: 86303
 UL 916, 2043 (Plenum Rated)

*When communicating through the mesh, range is essentially unlimited (5000ft+)

WIRING DIAGRAM



Fixture adapter powered by LED driver auxiliary output



Fixture adapter connected to LED driver and using power supply

FEATURE

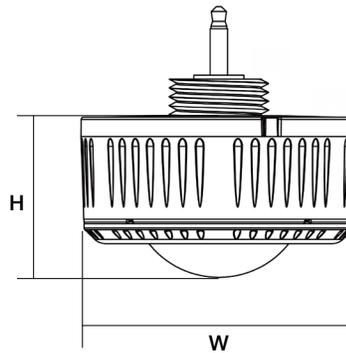
- **Installation:** Plug-N-Play via AUX socket on attached fixture
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** Hold time, High-Low setting, continuous Bi-level dimming, Code-compliant manual-on or auto-off capability
- **Sensor:** Motion (Occupancy/Vacancy/Manual) and Daylight Harvesting
- **Room and Zone Control:** Zoning and Grouping control, Scheduling



SPECIFICATIONS

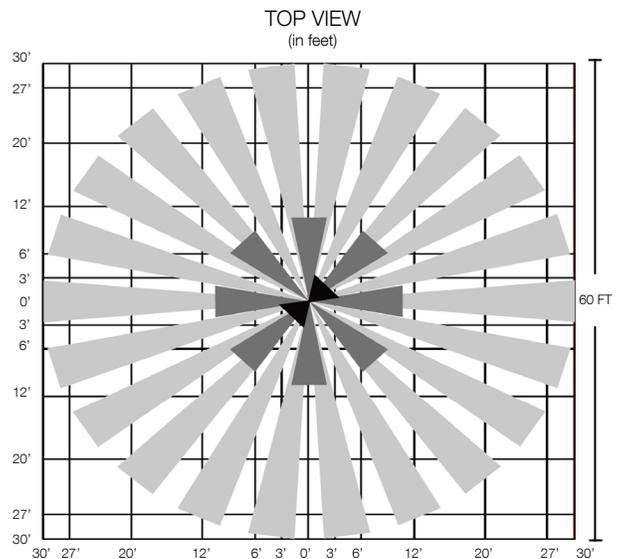
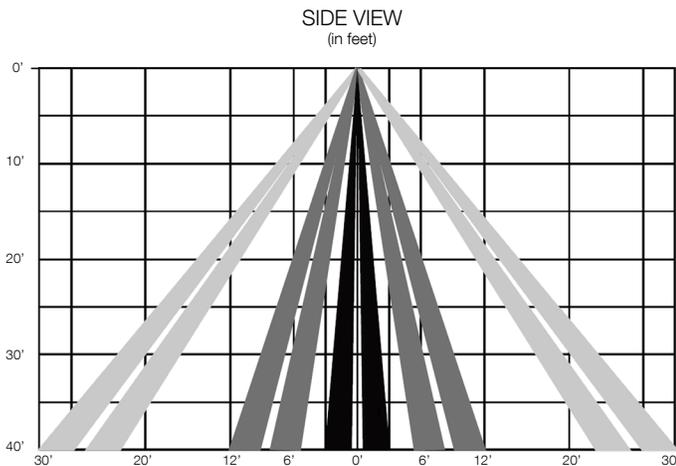
SENSOR TYPE:	Passive Infrared Sensor (PIR)
WIRELESS STANDARDS:	5.0 Bluetooth Mesh
INPUT VOLTAGE:	12-24VDC, >50mA
CONTROL OUTPUT:	0-10V
OPERATING TEMP:	-4°F ~ +140°F (-20°C ~ +60°C)
COMMISSIONING RANGE:	50FT
BLUETOOTH RANGE:	164FT
DETECTION ANGLE:	360°
MOUNTING HEIGHT:	Up to 40FT
WARRANTY:	5 years
IP RATING:	IP65

DIMENSIONS



H	W
1.03" (26.2mm)	2.17" (55mm)

COVERAGE PATTERNS



FEATURE

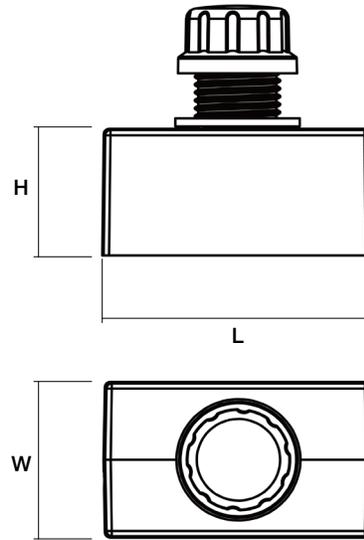
- **Installation:** Factory / Jobsite install through 1/2" knockout hole, 12V AUX power required
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** High-End Trim, Zoning, Continuous Bi-level Dimming
- **CCT Tuning:** CCT Tuning feature for Dual/Multi-CCT LED board fixture only
- **Sensor:** Photocell
- **Zone Control:** Zoning and Grouping control, Scheduling



SPECIFICATIONS

SENSOR TYPE:	Photocell
WIRELESS STANDARDS:	5.0 Bluetooth Mesh
INPUT VOLTAGE:	12-14VDC, >50mA
CONTROL OUTPUT:	0-10V
OPERATING TEMP:	-40°F ~ +158°F (-40°C ~ +70°C)
COMMISSIONING RANGE:	50FT
BLUETOOTH RANGE:	100FT
DETECTION ANGLE:	360°
WARRANTY:	5 years
IP RATING:	IP65

DIMENSIONS



L	H	W
1.14" (29mm)	0.94" (24mm)	1.97" (50mm)

WIRING DIAGRAM

