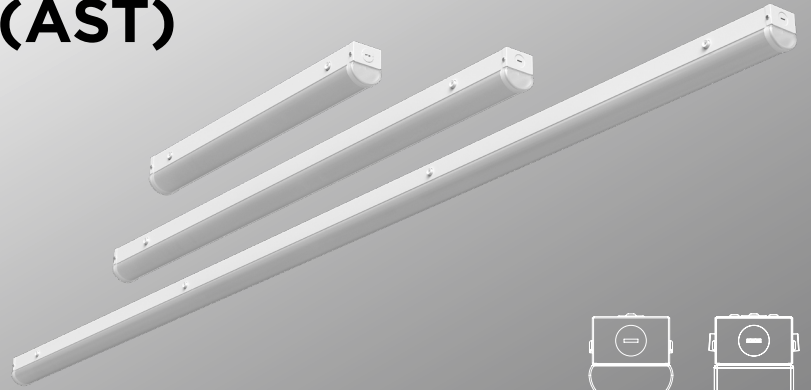




Advantage Series Strip (AST)

LED Strip Fixture



OVERVIEW	
Lumen Package (lm)	1,400 - 11,000
Wattage Range (W)	10 - 80
Efficacy Range (LPW)	121 - 144
Weight lbs (kg)	1.7 - 5.9 (0.8 - 2.7)
Control Options	QCMSx, IMWS

QUICK LINKS

FEATURES & SPECIFICATIONS

Construction

- Rigid steel body with a variety of lens shape options
- Standard finish is gloss white

Optical System

- Available with diffuse square or curved polycarbonate lens.
- All units are CCT (3000K/3500K/4000K/5000K) and lumen selectable (see ordering guide for details)
- Selectability can be locked to a specific setting using the LxxCxx feature, which is processed as a special request.
- Wide distribution, 130 degree beam spread
- Minimum CRI of 80

Electrical

- Universal Voltage (120-347 VAC) Input 50/60Hz
- L70 Calculated Life: 100,000+ hours
- High Efficiency Driver: minimum 85%
- 0-10V dimming (1% - 100%) standard

- Emergency battery backup available with 4W (4ft) or 8W (8ft) output
- Operating temperature range -30 to +50C (-22F to +122F) refer to ambient temperature table for specific units.

Controls

- Controls Options Include:
- Simple Sensor PIR end mount motion sensor available (QCMS35)
- Simple Sensor Integral Microwave Sensor (IMWS)

Installation

- Mounting options include: cable mount (MCH), surface mount (SMK), or Toggle Cable Hanger(CH). See accessory table for appropriate mounting hardware ordering information.
 - For continuous row application, please refer to the accessory table for appropriate row alignment plates and continuous row connector part numbers
 - Maximum continuous row installation lengths are noted in the performance table section

Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsiindustries.com/resources/terms-and-warranty.aspx> for more information.

Listings

- Listed to UL 1598 and UL 8750.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for damp locations
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. Specifications and dimensions subject to change without notice.

Advantage Series Strip (AST) LED Strip Fixture

Type : _____

Have questions? Call us at (800) 436-7800

ORDERING GUIDE

TYPICAL ORDER EXAMPLE: AST 4 FS CPD UNC QCR35 EM			
Prefix	Length	Lumen Package	Lens/Distribution
AST - Advantage Series Strip (Gen 2)	2 - 2ft	FS - Fully Selectable (14L-20L-28L/3000K-3500K-4000K-5000K)	SPD - Square Polycarbonate Diffuse General Distribution CPD - Curved Polycarbonate Diffuse General Distribution
	3 - 3ft	FS - Fully Selectable (17L-23L-37L/3000K-3500K-4000K-5000K)	
	4 - 4ft	FS - Fully Selectable (28L-42L-54L/3000K-3500K-4000K-5000K)	
	8 - 8ft	FS - Fully Selectable (84L-96L-110L/3000K-3500K-4000K-5000K)	
Voltage	Controls	EM Options	Options
UNC - 120 - 347V	QCR35 - Quick Control Receptacle (Allows addition of QCMS35 sensor accessory) IMWS - Integral Microwave Motion Sensor For programming, please see "Sensors Sequence of Operations Charts"	EM - Battery Backup (120-347V)	E6CN - 6ft cord 16/3 non-dimming; no plug installed on TOP END E6CD - 6ft cord 16/5 dimming; no plug installed on TOP END E10CN - 10ft cord 16/3 non-dimming; no plug installed on TOP END E10CD - 10ft cord 16/5 dimming; no plug installed on TOP END 515P - 5-15 plug only (120V)
			L515P - 5-15P Twistlock Plug (125V) L615P - 6-15P Twistlock Plug (250V) L715P - 7-15P Twistlock Plug (277V) L2420P - 24-20P Twistlock Plug only 347V) LxxCxx - Selectable Lock (i.e. L84C30 = 84L/3000K) ³



Need more information?
[Click here for our glossary.](#)

Have additional questions?
 Call us at (800) 436-7800



ACCESSORY ORDERING INFORMATION

Part Number	Order Number	Description
832394	AST-2-BP	AST 2ft Beauty Plate (Covers 4 inches)
832396	AST-4-BP	AST 4ft Beauty Plate (Covers 4 inches)
832397	AST-8-BP	AST 8ft Beauty Plate (Covers 4 inches)
832398	AST-CRAL	AST Continuous Row Alignment Long Plate (Screw into fixture - Suspended and Surface Mount)
835513	AST-CRAS	AST Continuous Row Alignment Short Plate (No screws - Surface Mount Only)
885922	AST-TGAJ	AST T-Grid Alignment Bracket Joiner for when ceiling tiles are flush with the grid (4ft/8ft only, Qty 2)
885923	AST-TGAE	AST T-Grid Alignment Bracket Ender for when ceiling tiles are flush with the grid (4ft/8ft only, Qty 2)
893088GWT	AST-TG-OFF-GWT	AST White T-Grid Offset Hanger for when ceiling tiles are lower than the grid (4ft/8ft only, Qty 2)
838272R2	AST-CRCK2	AST 2ft Continuous Row Connector Kit (2 Cables with quick connects - 3 wire power, 2 wire dimming)
838274	AST-CRCK4	AST 4ft Continuous Row Connector Kit (2 Cables with quick connects - 3 wire power, 2 wire dimming)
838275	AST-CRCK8	AST 8ft Continuous Row Connector Kit (2 Cables with quick connects - 3 wire power, 2 wire dimming)
838272EM	AST-CRCK2EM	AST 2ft Continuous Row Connector Kit with EM (2 Cables with quick connects - 3 wire power, 2 wire dimming, 1 wire EM)
838273EM	AST-CRCK3EM	AST 3ft Continuous Row Connector Kit with EM (2 Cables with quick connects - 3 wire power, 2 wire dimming, 1 wire EM)
838274EM	AST-CRCK4EM	AST 4ft Continuous Row Connector Kit with EM (2 Cables with quick connects - 3 wire power, 2 wire dimming, 1 wire EM)
838275EM	AST-CRCK8EM	AST 8ft Continuous Row Connector Kit with EM (2 Cables with quick connects - 3 wire power, 2 wire dimming, 1 wire EM)
845454	ASH-2	Asymmetrical Shield 2ft
891768	ASH-3	Asymmetrical Shield 3ft
845456	ASH-4	Asymmetrical Shield 4ft
845457	ASH-8	Asymmetrical Shield 8ft
832410	TCH3	3' Toggle Cable Hanger (2 per) - Up/Down Adjustable and Left/Right Adjustable
431373	TCH10	10' Toggle Cable Hanger (2 per)
783379R4	MCH10	10' Mini Hook Cable Hanger (2 per) - Up/Down Adjustable and Left/Right Adjustable
842373	QCMS35	Quick Control PIR Motion Sensor 3.5mm
808429	QCEA35	Quick Control Motion Elbow Extender 3.5mm
802874	QCALBMSD35	Quick Control Airlink Blue Motion Sensor 3.5mm
792552	QCREM	Quick Control Remote Config Tool
838361	AST-SL	AST Selector Lock Plate (if needed after installation)
832411	AST-2-WG	AST 2ft Wireguard
832413	AST-4-WG	AST 4ft Wireguard
832414	AST-8-WG	AST 8ft Wireguard

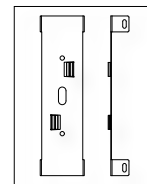
AST-CRAL



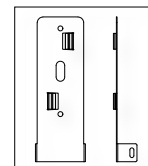
AST-CRAS



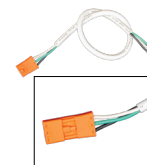
AST-TGAJ



AST-TGAE



AST-X-CRCK



IMWS



QCR35



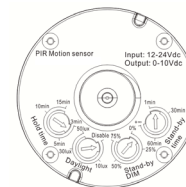
QCEA35



QCMS35



QCMS35



1 - This footnote is not used
 2 - LxxCxx option is processed as a special request with price added
 3- Continuous run wiring is not compatible with the Selectable Lock option

Advantage Series Strip (AST) LED Strip Fixture

Type : _____

 Have questions? Call us at (800) 436-7800

PERFORMANCE

Cord Application Notes							
		Not Dimming				Dimming	
		No Emergency or Controls	Emergency	Controls ¹	Emergency and Controls	No Emergency or Controls	Emergency
Switched Circuitry Using a Wall Switch to Dim ²	Plug	Yes	No	Yes	No	No	No
	# of Cord Wires	3	4	3	4	5	6
Non-Switched Circuitry Using Controls to Dim ³	Plug	Yes	Yes	Yes	Yes	No	No
	# of Cord Wires	3	3	3	3	5	6

Delivered Lumens												
Length	Lumen Package	Lens Type	CRI	3000K CCT		3500K CCT		4000K CCT		5000K CCT		Wattage
				Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	
2 FT	14L	CPD - Curved	80	1314	130	1420	141	1456	144	1411	140	10
		SPD - Square		1278	127	1381	137	1416	140	1372	136	
	20L	CPD - Curved	80	1861	128	2009	139	2061	142	1998	138	15
		SPD - Square		1815	125	1961	135	2011	139	1949	134	
	28L	CPD - Curved	80	2514	123	2715	133	2785	137	2699	132	20
		SPD - Square		2466	121	2664	131	2732	134	2648	130	
3 FT	1700	CPD - Curved	80	1621	114	1751	123	1796	126	1741	123	14
		SPD - Square		1632	115	1763	124	1808	127	1752	123	
	2300	CPD - Curved	80	2048	114	2212	124	2269	127	2199	123	18
		SPD - Square		2143	120	2315	129	2374	133	2301	129	
	3500	CPD - Curved	80	3238	110	3497	119	3587	122	3477	118	29
		SPD - Square		3385	115	3656	124	3750	128	3635	124	
4 FT	28L	CPD - Curved	80	2556	130	2760	140	2831	144	2744	139	20
		SPD - Square		2531	128	2734	139	2804	142	2718	138	
	42L	CPD - Curved	80	3805	126	4109	137	4215	140	4085	136	30
		SPD - Square		3756	125	4057	135	4161	138	4033	134	
	54L	CPD - Curved	80	4936	123	5331	133	5468	136	5300	132	40
		SPD - Square		4866	121	5255	131	5390	134	5224	130	
8 FT	84L	CPD - Curved	80	8344	139	9011	150	9242	154	8958	149	60
		SPD - Square		8093	135	8740	145	8965	149	8689	145	
	96L	CPD - Curved	80	9218	131	9955	142	10211	146	9896	141	70
		SPD - Square		9027	129	9748	139	9999	143	9691	138	
	110L	CPD - Curved	80	10101	125	10908	135	11188	138	10844	134	81
		SPD - Square		9920	122	10712	132	10988	136	10649	132	

*LED Chips are frequently updated therefore values are nominal

Advantage Series Strip (AST) LED Strip Fixture

Type: _____

 Have questions? Call us at (800) 436-7800

PERFORMANCE (CONT.)

Electrical Data (Amps)*						
Lumen Package	Wattage	120V	208V	240V	277V	347V
2 FT	10	0.08	0.05	0.04	0.04	0.03
2 FT	15	0.12	0.07	0.06	0.05	0.04
2 FT	20	0.17	0.10	0.09	0.07	0.06
3 FT	14	0.12	0.07	0.06	0.05	0.04
3 FT	18	0.15	0.09	0.07	0.06	0.05
3 FT	29	0.25	0.14	0.12	0.11	0.08
4 FT	20	0.16	0.09	0.08	0.07	0.06
4 FT	30	0.25	0.14	0.13	0.11	0.09
4 FT	40	0.33	0.19	0.17	0.14	0.12
8 FT	60	0.50	0.29	0.25	0.22	0.17
8 FT	70	0.58	0.34	0.29	0.25	0.20
8 FT	80	0.67	0.38	0.33	0.29	0.23

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

Max Run Length - # of Fixtures (Max Ft)						
Size	Wattage	120V	208V	240V	277V	347V
2 FT	10.1	35 (70')	61 (122')	70 (140')	81 (162')	101 (202')
2 FT	14.5	23 (46')	40 (80')	47 (94')	54 (108')	67 (134')
2 FT	20.4	17 (34')	30 (60')	35 (70')	40 (80')	50 (100')
3 FT	14.2	35 (105')	61 (183')	70 (210')	81 (243')	101 (303')
3 FT	17.9	17 (51')	30 (90')	35 (105')	40 (120')	50 (150')
3 FT	29.4	12 (36')	20 (60')	23 (69')	27 (81')	34 (102')
4 FT	19.7	17 (68')	30 (120')	35 (140')	40 (160')	50 (200')
4 FT	30.1	12 (48')	20 (80')	23 (92')	27 (108')	34 (136')
4 FT	40.1	9 (36')	15 (60')	17 (68')	20 (80')	25 (100')
8 FT	60.1	6 (48')	10 (80')	12 (96')	13 (104')	17 (136')
8 FT	70.1	5 (40')	9 (72')	10 (80')	12 (96')	14 (112')
8 FT	81.0	4 (32')	8 (64')	9 (72')	10 (80')	13 (104')

Ambient Temperature Rating C(F)		
Length	W/O EM	W/ EM
2	50C (104F)	30C (86F)
4	50C (104F)	30C (86F)
8	35C (104F)	30C (86F)

EM Output Lumens		
Length	EM Lumens	Wattage
2	No EM	No EM
4	540	4
8	1080	8

CCT Proration	
CCT	Proration
3000	0.90
3500	0.97
4000	1.00
5000	0.97

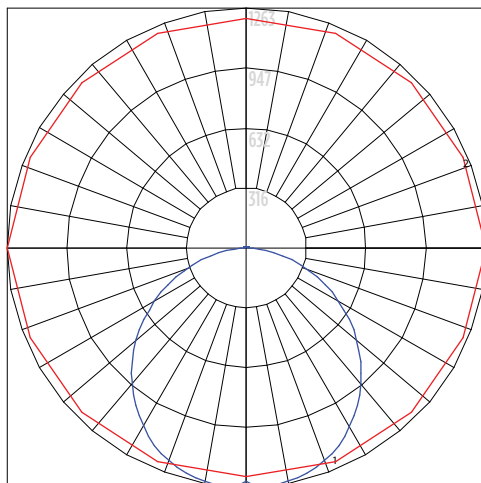
PHOTOMETRICS

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

AST 4 FS SPD UN

Polar Curve



 Vertical Plane  Horizontal Cone

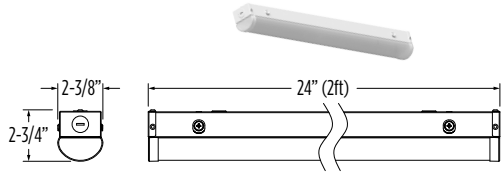
Advantage Series Strip (AST) LED Strip Fixture

Type: _____

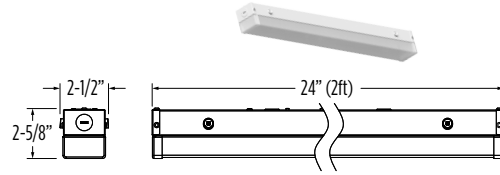
 **Have questions?** Call us at (800) 436-7800

PRODUCT DIMENSIONS

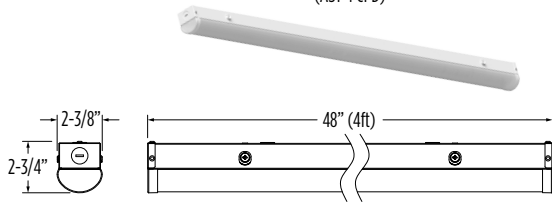
**Advantage Series Strip, 2ft
with Curved Polycarbonate Diffuse**
(AST 2 CPD)



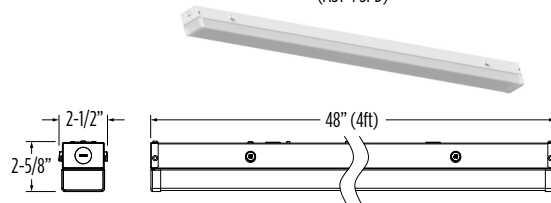
**Advantage Series Strip, 2ft
with Square Polycarbonate Diffuse**
(AST 2 SPD)



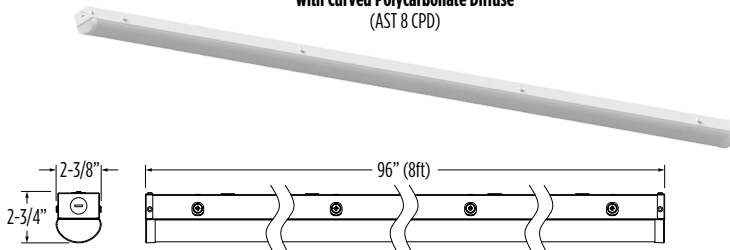
**Advantage Series Strip, 4ft
with Curved Polycarbonate Diffuse**
(AST 4 CPD)



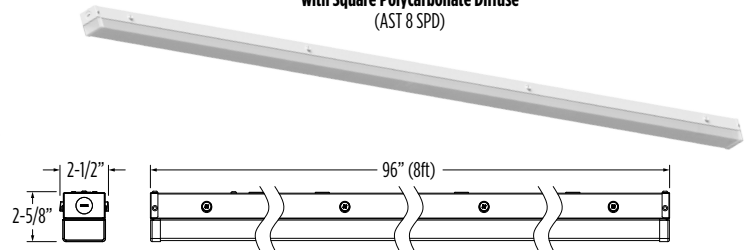
**Advantage Series Strip, 4ft
with Square Polycarbonate Diffuse**
(AST 4 SPD)



**Advantage Series Strip, 8ft
with Curved Polycarbonate Diffuse**
(AST 8 CPD)



**Advantage Series Strip, 8ft
with Square Polycarbonate Diffuse**
(AST 8 SPD)



Advantage Series Strip (AST) LED Strip Fixture

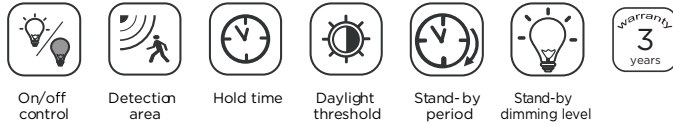
Type : _____

Have questions? Call us at (800) 436-7800

CONTROLS



1. 5.8GHz microwave motion sensor with dimmable function.
2. Suitable for Ceiling lights or Bulkhead.
3. Loop in and loop out for easy installation.
4. Sensitive and reliable
5. 3 year limited warranty.

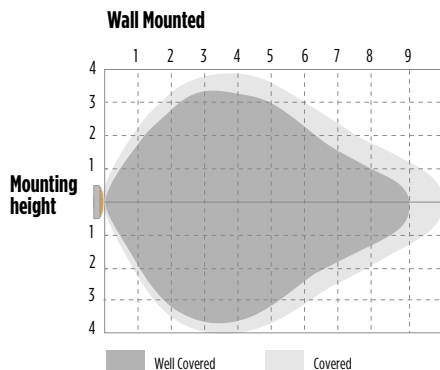
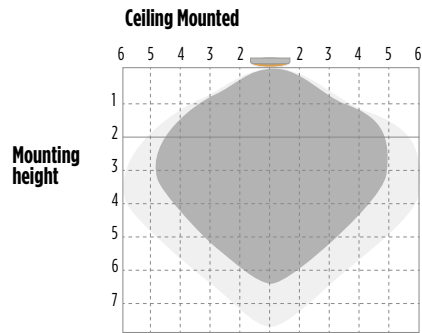


Technical Data	
Operating voltage	120-277VAC, 50Hz/60Hz
Switching capacity	Max, 3.0A@120Vac, 50/60Hz; Max, 2.0A@277Vac, 50/60Hz
Stand-by power	≤1W
Control method	On/off / 1-10V Dimming
Microwave frequency	5.8GHz±75MHz
Microwave power	<0.3mW
Detection area	10%/50%/75%/100%
Hold time	5s/30s/1min/5min/10min/20min/30min
Daylight threshold	2Lux/10Lux/50Lux/Disable
Stand-by period	0s/10 s/1 min/10 min/30 min/1 H/∞
Stand-by dimming level	10%/20%/30%/50%
Mounting height	2.5-6m / 8.2-19.68ft
Detection range	Max. ∅14m/45.93ft
Motion detection	0.5-1.5m/s
Operating temperature	-20°C ~ +55°C
IP rating	IP20
Warranty	3 years

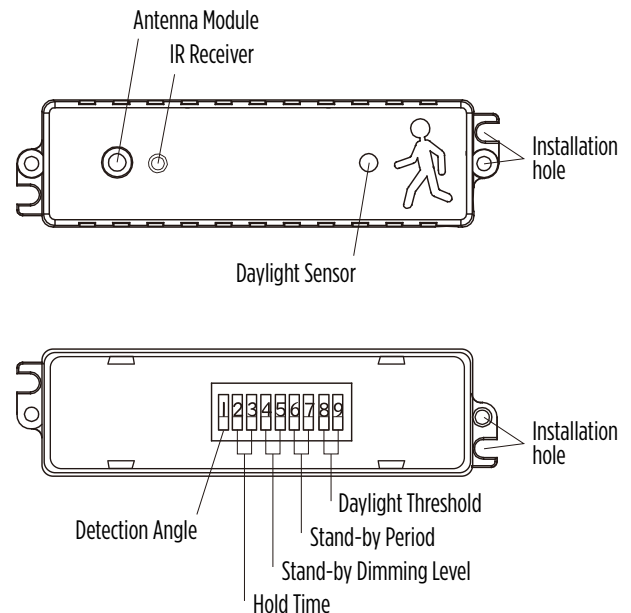
Factory Default Setting: Detection area 100%/ Hold time 5s/ Daylight threshold Disable/Stand-by period 0s/ Stand-by dimming level 10%.

Detection Coverage

This figure indicates the maximum distance at the highest mounting height with 100% sensitivity. Typical installation height 2.5-6m



Mechanical Structure



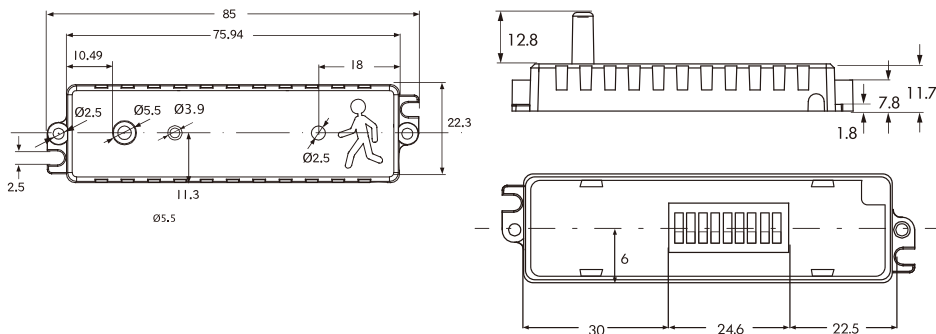
Advantage Series Strip (AST) LED Strip Fixture

Type: _____

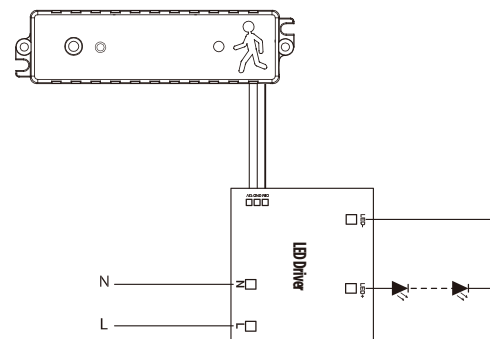
Have questions? Call us at (800) 436-7800

CONTROLS

Dimensions (Unit: mm)



Wiring Diagram



Settings



- Switch UP
- Switch DOWN

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	20%
<input checked="" type="checkbox"/>	<input type="checkbox"/>	30%
<input type="checkbox"/>	<input type="checkbox"/>	50%

Stand-by Dimming Level

The definition of low output in standby period.

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0s
<input checked="" type="checkbox"/>	<input type="checkbox"/>	30s
<input type="checkbox"/>	<input checked="" type="checkbox"/>	20min
<input type="checkbox"/>	<input type="checkbox"/>	+∞

Stand-by Period

The period of light keeping low output before it's completely switched off. When it's preset as "∞", the light always keep at low output if no movement in the detection area and doesn't turn off.

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Disable
<input checked="" type="checkbox"/>	<input type="checkbox"/>	50lux
<input type="checkbox"/>	<input checked="" type="checkbox"/>	10lux
<input type="checkbox"/>	<input type="checkbox"/>	2lux

Daylight Threshold

Definition of the ambient brightness; only when the ambient brightness is lower than the preset specific lux amount, the sensor will work; when it's preset as "disable", the sensor works everytime it detects motion regardless the ambient brightness.

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5s
<input checked="" type="checkbox"/>	<input type="checkbox"/>	30s
<input type="checkbox"/>	<input checked="" type="checkbox"/>	1min
<input type="checkbox"/>	<input type="checkbox"/>	10min

Hold-Time

The period of light keeping 100% brightness after moving objects leave the detection area.

<input checked="" type="checkbox"/>	100%
<input type="checkbox"/>	50%

Detection Area

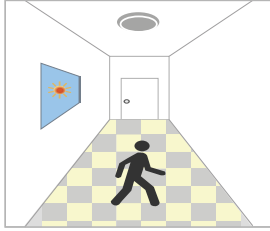
In this area, movement will be detected and able to trigger the sensor. 100% detection area is also known as the strong sensitivity.

CONTROLS

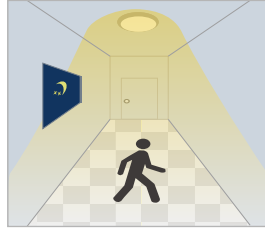
Application

1. Automatically ON/OFF function:

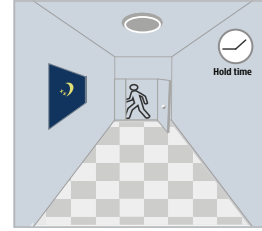
Light on when detect movement and off after people leave at night. Applications: Corridor, Staircase.



With sufficient daylight, even when motion detected, light remains OFF.



With insufficient daylight, when motion detected, light ON.



After the last detection and the present hold time elapsed, light OFF.

2. No daylight function

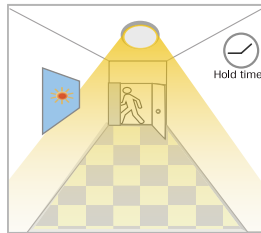
The daylight threshold is set to "Disable".

Light on when detect movement, After people leave, Light off after stand-by period.

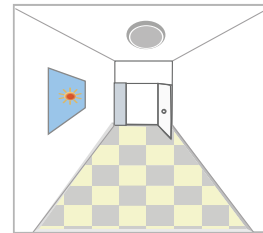
Applications: Dim places such as Basement Parking, Underpass.



When motion is detected, the sensor will switch on the light to 100% brightness.

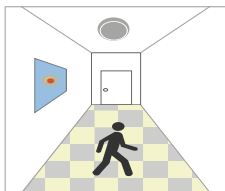


After people leave the detection area, light remains 100% brightness within hold time.



After the last detection and the present hold time elapsed, light OFF.

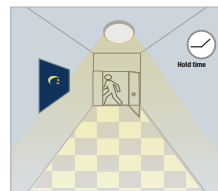
3. Function Demo - Dimmable control/Corridor function



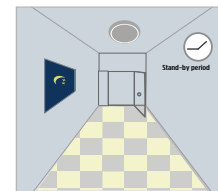
With sufficient daylight, even when motion detected, light remains OFF.



With insufficient daylight, when motion detected, light ON.



After last detection, the light will be dimmed down to the stand-by dimming level (10%,20%,30% or 50%) after holdtime.



After the stand-by period, light OFF.