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Header  8[List View](#)**General Information** | [Contact](#) | [Default Values](#) | [Discount](#) | [Document Information](#) | [Clarification Request](#)**Procurement Folder:** 794738**SO Doc Code:** CRFQ**Procurement Type:** Central Purchase Order**SO Dept:** 0211**Vendor ID:** VS0000036977 **SO Doc ID:** GSD2100000015**Legal Name:** Accendo Lighting**Published Date:** 12/14/20**Alias/DBA:****Close Date:** 12/21/20**Total Bid:** \$259,812.20**Close Time:** 13:30**Response Date:** 12/21/2020 **Status:** Closed**Response Time:** 9:23**Solicitation Description:** Addendum No. 1  
Lighting Fixtures and Hardware**Responded By User ID:** sdtadic **Total of Header Attachments:** 8**First Name:** Steven**Total of All Attachments:** 8**Last Name:** Tadic**Email:** stadic@accendolighting.i



Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
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**State of West Virginia  
 Solicitation Response**

**Proc Folder:** 794738  
**Solicitation Description:** Addendum No. 1  
 Lighting Fixtures and Hardware  
**Proc Type:** Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2020-12-21 13:30	SR 0211 ESR12212000000004472	1

**VENDOR**  
 VS0000036977  
 Accendo Lighting

**Solicitation Number:** CRFQ 0211 GSD2100000015  
**Total Bid:** 259812.2000000000116415321826 **Response Date:** 2020-12-21 **Response Time:** 09:23:11  
**Comments:** Submitting complete "Or Equal" package that includes 85% of product manufactured in the USA with standard 10 year factory warranty (XtraLight) products only.

**FOR INFORMATION CONTACT THE BUYER**  
 Melissa Pettrey  
 (304) 558-0094  
 melissa.k.pettrey@wv.gov

**Vendor Signature X** **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	3.1.1 Barron Trace Lite RCL Series Light or Equal	85.00000	EA	121.820000	10354.70

Comm Code	Manufacturer	Specification	Model #
39110000			

**Commodity Line Comments:** Bidding "Or Equal" product by EIKO

**Extended Description:**

3.1.1 Barron Trace Lite RCL Series Light or Equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	3.1.2 Metalux Cruz Series AMSEM or Equal	35.00000	EA	361.900000	12666.50

Comm Code	Manufacturer	Specification	Model #
39110000			

**Commodity Line Comments:** Bidding "Or Equal" by XtraLight  
Includes standard 10 Year Factory Warranty and Made in USA

**Extended Description:**

3.1.2 Metalux Cruz Series AMSEM 24CZ-LD5-40SE-S-UNV-EL7W-L835-CD1-SVPD1-DV-U Light or Equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	3.1.3 Metalux Cruz Series AMSEGEN or Equal	10.00000	EA	242.000000	2420.00

Comm Code	Manufacturer	Specification	Model #
39110000			

**Commodity Line Comments:** Bidding "Or Equal" by XtraLight  
Includes standard 10 Year Factory Warranty and Made in USA

**Extended Description:**

3.1.3 Metalux Cruz Series AMSEGEN 24CZ-LD5-40SE-S-UNV-ERTD-L835-CD1-SVPD1-DV-U Light or Equal.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	3.1.4 Metalux Cruz Series Type AMS or Equal	840.00000	EA	200.200000	168168.00

Comm Code	Manufacturer	Specification	Model #
39110000			

**Commodity Line Comments:** Bidding "Or Equal" by XtraLight  
Includes standard 10 Year Factory Warranty and Made in USA

**Extended Description:**

3.1.4 Metalux Cruz Series Type AMS 24CZ-LD5-40SE-S-UNV-L835-CDI-SVPD1-DV U Light or Equal.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	3.1.5 Metalux Cruz Series 22CZ-LD5-39E-S-UNV-L835-DC1-U	100.00000	EA	178.200000	17820.00

Comm Code	Manufacturer	Specification	Model #
39110000			

**Commodity Line Comments:** Bidding "Or Equal" by XtraLight  
Includes standard 10 Year Factory Warranty and Made in USA

**Extended Description:**

3.1.5 Metalux Cruz Series 22CZ-LD5-39E-S-UNV-L835-DC1-U Light or Equal.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
6	3.1.6 Cooper/Eaton Control OSW-P-010 Dimmer or Equal	200.00000	EA	69.300000	13860.00

Comm Code	Manufacturer	Specification	Model #
39110000			

**Commodity Line Comments:** Bidding "Or Equal" by IR Tech

**Extended Description:**

3.1.6 Cooper/Eaton Control OSW-P-010 Dimmer or Equal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
7	3.1.7 Cooper/Eaton EQ-CLIP-U Fixture Clips or Equal	1000.0000	EA	0.500000	500.00

Comm Code	Manufacturer	Specification	Model #
39110000			

**Commodity Line Comments:** Bidding "or Equal" by CADDY/Enrico

**Extended Description:**

3.1.7 Cooper/Eaton EQ-CLIP-U Fixture Clips or Equal.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
8	3.1.8 Hubbell ATP 1500C Motion Detector with Acuity Sensor	75.00000	EA	79.200000	5940.00

Comm Code	Manufacturer	Specification	Model #
39110000			

**Commodity Line Comments:** Bidding "Or Equal" by IR TECH  
Note: Cost includes ceiling mount IR sensor and LV power pack in cost

**Extended Description:**

3.1.8 Hubbell ATP 1500C Motion Detector with Acuity Sensor Switch and Low 35 Power Relay Included or Equal.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
9	3.1.9 LUMARK by Cooper Prevail-XL Lights and Mounting Hard.	37.00000	EA	759.000000	28083.00

Comm Code	Manufacturer	Specification	Model #
39110000			

**Commodity Line Comments:** Bidding "Or Equal" by XtraLight  
Includes standard 10 Year Factory Warranty and Made in USA

**Extended Description:**

3.1.9 LUMARK by Cooper Prevail-XL Discrete Lighting PRV-XL PA4B 750 U 5WQ, Standard, BZ, PA4 96 LED's Per Panel or Equal (Parking Lot Lights and Mounting Hardware).



## SCRG : SURFACE CANOPY, ROUND GARAGE

### DESCRIPTION

A cost-effective, multipurpose fixture for garage and canopy lighting. It provides unmatched versatility with multiple mounting options, durable construction and an optional sensor for use in a wide range of indoor and outdoor applications.

### FEATURES

- 130 lpw ultra-high efficiency delivers superior performance
- Optional integrated microwave motion sensor with photocell offers fully adjustable on/off and bi-level dimming capabilities
- Optional remote control commissioning device available for integrated sensors
- 0-10V dimming control

### LISTINGS

- UL Listed for wet locations
- IP65 Rated
- DesignLights Consortium® Premium Qualified - meets the requirements for the highest DLC qualification for efficacy and lumen maintenance

### PERFORMANCE

- Rated lifetime L90: >50,000 hours
- 4000K, 5000K CCT
- CRI: 80+

### ELECTRICAL

- Input voltage: 120-277V
- Dimmable power supply (0-10V)
- Power Factor: >.9
- THD: <20%

### CONSTRUCTION

- Diecast aluminum heatsink
- Optional Integrated microwave motion and photocell sensor
- Impact-resistant polycarbonate lens
- ½" NPS entry point for conduit and accessories
- ¾" NPS pendant mount
- Quick mount surface bracket included
- -40°F to 104°F (-40°C to 40°C) operating temperature

### WARRANTY

- 5 year limited warranty; see eiko.com for warranty details

project name	type
catalog number	
comments	voltage
approved by	date



### APPLICATIONS

- Strip malls
- Entryways
- Educational facilities
- Plazas
- Canopies
- Eaves
- Public rest areas
- Cold storage
- Bridges, tunnels, and overpasses (with 3G bracket)
- Lowbay



## ORDERING INFORMATION

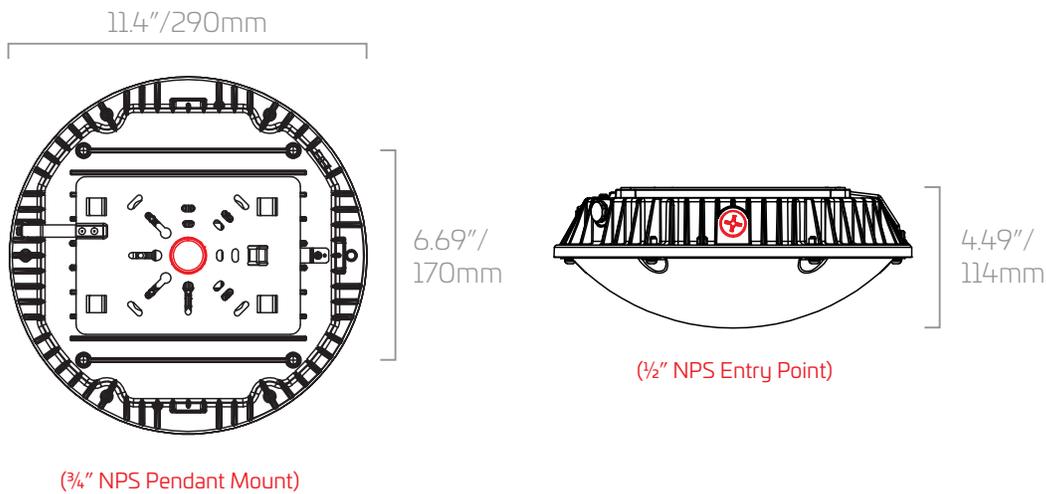
EXAMPLE: SCRG-75/D0/840-DIM-U-W

Model	Package	LPW	CCT/CRI	Dimming	Voltage	Sensor	Finish
<b>SCRG</b> : Surface Canopy Round, Garage	<b>50</b> - 40W; 5,000 lm <b>75</b> - 60W; 8,000 lm	<b>D0</b> - 130	<b>840</b> - 4000K; 80CRI <b>850</b> - 5000K; 80CRI	<b>DIM</b> - Dimmable	<b>U</b> - Universal	<b>S1B</b> - Sensor (Blank) - No sensor	<b>W</b> - White

## PERFORMANCE SUMMARY

Order Code	Item #	Watts	Lumens	CCT	CRI	Dimming	Volts	DLC
09955	SCRG-50/D0/840-DIM-U-W	40W	5000	4000K	80+	0-10V	120-277V	✓
09956	SCRG-50/D0/850-DIM-U-W	40W	5000	5000K	80+	0-10V	120-277V	✓
09957	SCRG-75/D0/840-DIM-U-W	60W	8000	4000K	80+	0-10V	120-277V	✓
09958	SCRG-75/D0/850-DIM-U-W	60W	8000	5000K	80+	0-10V	120-277V	✓
09959	SCRG-50/D0/840-DIM-U-S1B-W	40W	5000	4000K	80+	0-10V	120-277V	✓
09960	SCRG-50/D0/850-DIM-U-S1B-W	40W	5000	5000K	80+	0-10V	120-277V	✓
09961	SCRG-75/D0/840-DIM-U-S1B-W	60W	8000	4000K	80+	0-10V	120-277V	✓
09962	SCRG-75/D0/850-DIM-U-S1B-W	60W	8000	5000K	80+	0-10V	120-277V	✓

## DIMENSIONS



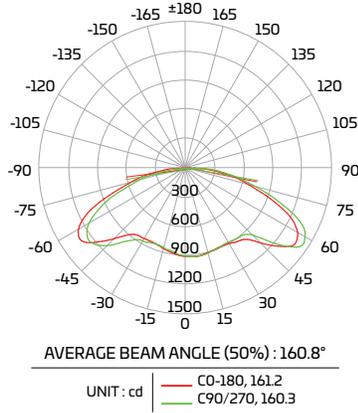
## AVAILABLE ACCESSORIES

Order Code	Item #	Description
10113	SEN-S1-RC2	Remote Control for S1B Sensors
09963	SCRG-3G-BRK	Quick Mount Bracket for SCRG 3G applications
09908	SEN-S1A-KO	Sensor, OCC/PC/RC, IP65, 1/2" Knock Out Mount, Remote Controllable

# PHOTOMETRICS

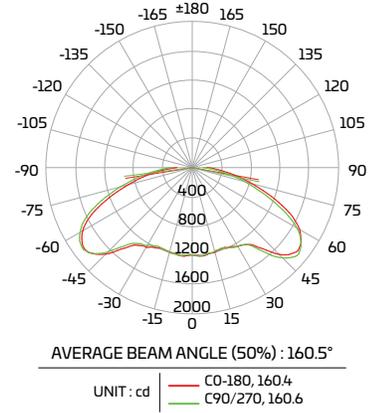
## 40W 5000K

ZONAL LUMEN SUMMARY		
Zone	Lumens	%Fixture
0-30	701.7	13.3%
0-40	1238.0	23.4%
0-60	3208.6	60.7%
60-90	2018.3	38.2%
70-100	975.6	18.5%
90-120	52.7	1%
0-90	5226.9	98.9%
90-180	55.5	11%
0-180	5282.3	100%



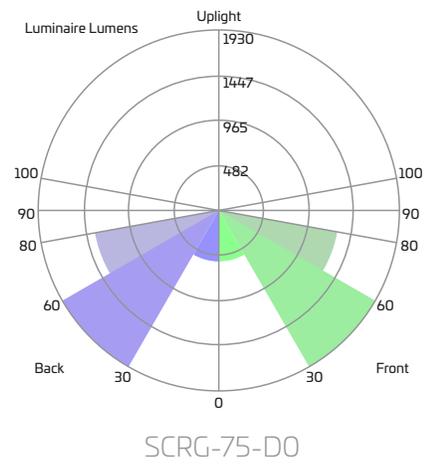
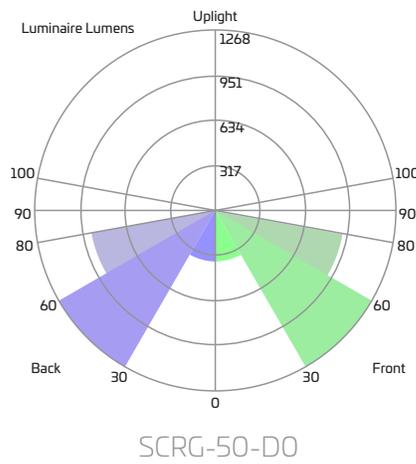
## 60W 5000K

ZONAL LUMEN SUMMARY		
Zone	Lumens	%Fixture
0-30	1001.1	13.5%
0-40	1780.8	24%
0-60	4580.1	61.6%
60-90	2770.1	37.3%
70-100	1370.2	18.4%
90-120	77.9	1%
0-90	7350.2	98.9%
90-180	82.1	11%
0-180	7432.3	100%



## BUG RATINGS

Zone	Lumens	%Fixture
0-30	1001.1	13.5%
0-40	1780.8	24%
0-60	4580.1	61.6%



Project Name	Type
Catalog #	Date

# ARCHITECTURAL CONICAL RECESSED LED LIGHTING

## ACR24 LED



### APPLICATIONS

- Office Spaces
- Conference Rooms
- Municipal Facilities
- Medical Facilities
- Financial Institutions
- Retail Spaces
- Hospitality Areas
- Corridors

### APPROVALS

- ETL Listed. Complies with UL1598 and CSAC22.2#250.0.0:2008
- IC Rated
- BAA Compliant
- RoHS Compliant
- Appropriate parts/test guidelines were performed by ATAL [www.ata-labs.com](http://www.ata-labs.com)
- Select models DLC Qualified. For a complete list of DLC Qualified product please visit: [www.xtralight.com/dlc](http://www.xtralight.com/dlc) or [www.designlights.org/qpl](http://www.designlights.org/qpl)

### FEATURES

- A stylish architectural recessed troffer that uses patented LED technology to create soft and consistent illumination.
- Proprietary frosted ribbed lens engineered to maximize lumen output and minimize glare.
- Symmetrical contoured reflectors provide smooth light distribution.
- Tunable White option is available on our [website](http://www.xtralight.com):

### CONSTRUCTION

- Housing: 22 gauge steel for durability and painted white.
- End caps secured to housing for strength and rigidity.
- Integral T-grid clips included.

### ELECTRICAL

- Voltage: 120-277VAC input.
- Driver: 24VDC Class 2, constant current, electronic power supply factory calibrated to LED modules. Multi-volt 120-277V with 0-10V dimming as standard.
- Wiring: Internal factory wiring and pre-installed LED modules.

### ACCESSORIES

- Recessed troffer flange kit available, ordered separately (consult factory).

### WARRANTY

- Backed by XtraLight's industry leading 10-year warranty.

### ORDER LOGIC

**SAMPLE CATALOG NUMBER: ACR24-5000L-30K-DIM**

ACR24	-	-	-	-	-
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MODEL	CCT	DRIVER	OPTIONS
3000L	30K 3000K	DIM Dimmable 0-10V, Multi-Volt 120-277V	EM Emergency Battery Back-up
4000L	35K 3500K	LDE1 Hi-Lume™ 1% EcoSystem™ LED Driver with Soft-On, Fade-to-Black™	GTD Generator Transfer Device
5000L	40K 4000K	LDE5 5-Series EcoSystem™ LED Driver	FSP2 PIR Sensor, 8'H x 44'D
6000L	50K 5000K	LTEA2W Hi-Lume™ 1% 2-Wire LED Driver (120V forward phase only)	FSP3 PIR Sensor, 20'H x 40'D
8500L			FCJ010 0-10V Wireless RF Fixture Control Module to use with 0-10V drivers for individual fixture control
			AIR Air Return Slots
			SM Surface Mount Body
			MET 600mm x 1200mm Size

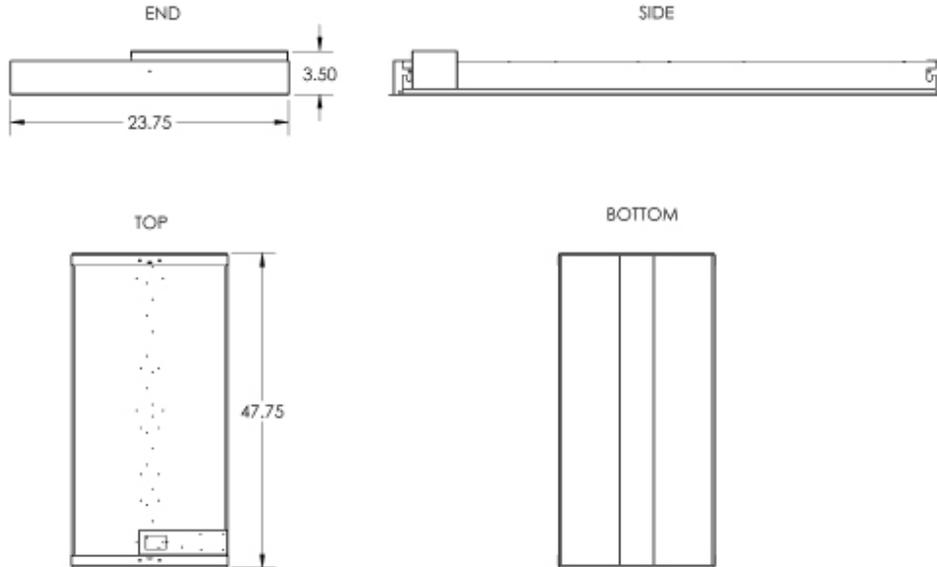
1. Use with Lutron wireless occupancy sensors and controls.
- ETL Listed (with DIM driver only).



# ARCHITECTURAL CONICAL RECESSED LED LIGHTING

## ACR24 LED

### DIMENSIONAL DATA

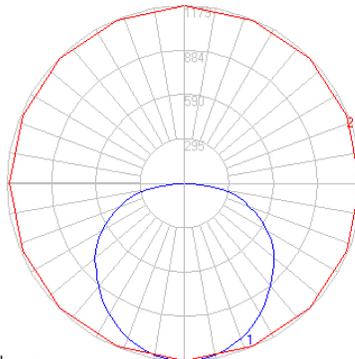


### PHOTOMETRIC DATA

#### ACR24-3000L

Catalog Number:  
ACR24-3000L-40K-DIM  
Report Number: ATALO26662.ies  
Issue Date: 10/29/18  
Lamp: (2) LED Modules  
Lens/Optics: Ribbed  
IESNA: LM-63-2002  
Total Input Watts: 24.9  
Efficacy (Lm/W): 135.7  
Total Lumens: 3379

Prepared by: American Testing & Assessment Laboratory  
NOTE: Data shown is absolute for product shown.



#### CANDELA DISTRIBUTION

	0°	22.5°	45°	67.5°	90°
0°	1173	1173	1173	1173	1173
15°	098	1104	1114	1124	1130
25°	985	997	1020	1042	1051
35°	833	851	892	931	946
45°	661	684	743	806	830
55°	481	510	597	689	715
65°	314	351	458	524	545
75°	165	219	284	351	379
85°	46	72	83	64	53
90°	1	1	1	0	0

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	894.34	26.50
0-40	1451.99	43.00
0-60	2562.23	75.80
0-90	3378.69	100.00
90-180	0.09	0.00
0-180	3378.77	100.00

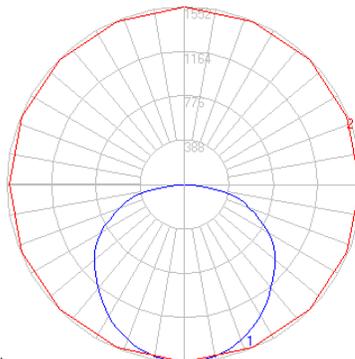
#### AVERAGE LUMINANCE

	0°	45°	90°
45°	1354	1521	1700
55°	1214	1507	1805
65°	1076	1569	1867
75°	923	1589	2120
85°	764	1379	880

#### ACR24-4000L

Catalog Number:  
ACR24-4000L-40K-DIM  
Report Number: ATALO26625.ies  
Issue Date: 10/18/18  
Lamp: (2) LED Modules  
Lens/Optics: Ribbed  
IESNA: LM-63-2002  
Total Input Watts: 31.6  
Efficacy (Lm/W): 140.9  
Total Lumens: 4454

Prepared by: American Testing & Assessment Laboratory  
NOTE: Data shown is absolute for product shown.



#### CANDELA DISTRIBUTION

	0°	22.5°	45°	67.5°	90°
0°	1544	1544	1544	1544	1544
15°	1445	1454	1468	1481	1491
25°	1299	1315	1344	1376	1389
35°	1101	1124	1177	1231	1252
45°	872	902	982	1066	1101
55°	637	672	787	911	949
65°	413	462	604	691	722
75°	219	289	373	460	500
85°	62	95	103	77	62
90°	1	1	1	0	0

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	1178.97	26.50
0-40	1915.47	43.00
0-60	3382.44	75.90
0-90	4453.95	100.00
90-180	0.09	0.00
0-180	4454.04	100.00

#### AVERAGE LUMINANCE

	0°	45°	90°
45°	1786	2011	2254
55°	1608	1987	2396
65°	1415	2069	2474
75°	1225	2087	2797
85°	1030	1711	1030

# ARCHITECTURAL CONICAL RECESSED LED LIGHTING

## ACR24 LED

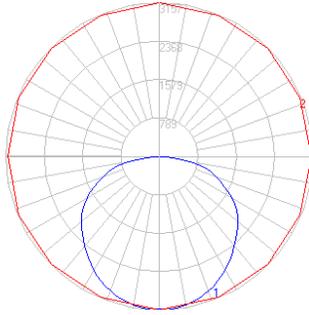
### PHOTOMETRIC DATA (CONT.)

#### ACR24-8500L

Catalog Number: ACR24-8500L-40K-DIM  
 Report Number: ATAL0026590.ies  
 Issue Date: 10/09/18  
 Lamp: (4) LED Modules  
 Lens/Optics: Ribbed  
 IESNA: LM-63-2002  
 Total Input Watts: 69.7  
 Efficacy (Lm/W): 130.1  
 Total Lumens: 9065

Prepared by: American Testing & Assessment Laboratory

NOTE: Data shown is absolute for product shown.



#### CANDELA DISTRIBUTION

	0°	22.5°	45°	67.5°	90°
0°	3142	3142	3142	3142	3142
15°	2942	2956	2988	3014	3032
25°	2642	2674	2735	2801	2829
35°	2237	2286	2395	2506	2547
45°	1776	1837	1997	2170	2240
55°	1297	1371	1602	1855	1931
65°	844	942	1232	1409	1474
75°	444	588	762	938	1020
85°	124	193	202	145	126
90°	1	2	1	0	0

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	2399.12	26.50
0-40	3897.43	43.00
0-60	6884.30	75.90
0-90	9064.51	100.00
90-180	0.12	0.00
0-180	9064.63	100.00

#### AVERAGE LUMINANCE

	0°	45°	90°
45°	3637	4089	4587
55°	3274	4044	4875
65°	2892	4221	5050
75°	2484	4263	5706
85°	2060	3356	2093

#### PRODUCT PERFORMANCE

REPLACES	MODEL	CCT	WATTS	LUMENS	EFFICACY
3L T8	3000L	4000K	24.9	3379	135.7 LPW
	4000L	4000K	31.6	4454	140.9 LPW
4L T12	8500L	4000K	69.7	9065	130.1 LPW

# PHILIPS

## Sensors

### EasySense

#### Fixture-Mount for Advanced Grouping



The Philips EasySense fixture-mount sensor is the ideal solution for per-fixture control of new light fixtures. It combines occupancy sensing, daylight harvesting and task tuning in a single, compact package for easy OEM fixture assembly. EasySense operates with the established Philips Advance Xitanium SR LED driver standard to make a simple two-wire connection between sensor and driver, thus eliminating the need for multiple components and auxiliary devices. The result is a cost-effective and easy-to-design-in solution ideal for energy-savings and code-compliance strategies. An intuitive app makes configuration and commissioning during and after installation fast and easy using Philips field apps.

EasySense with advanced grouping functionality enables addition of qualified wireless switches. Up to 40 sensors can be grouped to a switch using Philips field apps. In addition to easily adding user control to a space, the grouping feature facilitates auto-off/manual-on and auto-off/partial-on use cases. Furthermore, advanced grouping allows scene setting (e.g., presentation mode for a conference room), as well as occupancy sharing (i.e., fixtures within a group can be programmed to remain at prescribed light levels so long as occupancy is detected anywhere in the group).

EasySense for advanced grouping (SNS200) is also DLC qualified and listed in the QPL for Networked Lighting Controls.

Commercial Product Name	Order Code
EasySense Fixture-Mount Sensor	SNS200

# EasySense fixture-mount sensor

## Features

- Occupancy sensing, daylight harvesting and task tuning in one device
- Scene setting and occupancy sharing
- Compact size, 2-wire connection
- Operates with Philips Advance Xitanium SR LED drivers and qualified wireless switches
- Configuration of sensor parameters – if desired – using NFC or IR via intuitive Android-based Philips field apps
- DLC qualified: Listed on the QPL for Networked Lighting Controls

## Benefits

- Combines functionality to reduce need for multiple components
- Quick task tuning in the field to optimize light and power levels
- Enables auto-off/manual-on and auto-off/partial-on application
- Cost-effective solution for energy-savings and code-compliance strategies
- 5-year limited system warranty with Philips Advance Xitanium LED drivers<sup>1</sup>
- Configuration and commissioning from the floor

## Applications

- Conference rooms
- Individual offices
- Open offices
- Classrooms
- Storage and break areas
- Restrooms
- Lobbies
- Stairways

## Product Data

All specifications are typical and at 25°C Tcase unless otherwise specified.

<b>Ordering Information</b>	
Order Code	SNS200
Full Product Name	EasySense Fixture-Mount Sensor
Carton Quantity	50 pcs/carton
<b>Physical Information</b>	
Overall Dimensions	1.97in x 0.75in x 1.24in / 50mm x 19.0mm x 31.5mm
Housing (Luminaire Hole)	1.73in x 0.67in / 44mm x 17mm (L x w)
Net Weight per Piece	0.6oz / 17gr
Volume Required Inside Luminaire (LxWxH)	1.87in x 0.75in x 0.95in / 50mm x 19mm x 24mm
Color	White
Connectors	WAGO 20160 2-pole terminal block rated for AWG24 to AWG18 solid or stranded wire
<b>Electrical Information</b>	
Input Voltage	Powered by SR driver low-voltage interface
Current Consumption	13mA
Nominal Power Consumption	200mW
Standby Power	< 1 W on luminaire level, including driver standby power
<b>Occupancy Sensing</b>	
Type	Passive infrared (PIR)
Enable/Disable	Default enabled
Occupancy Mode	Auto-on/off, Manual-on/off, Manual-on/auto-off; Red LED indicates occupancy detected
Group Occupancy Sharing	Enabled/disabled
Group Lighting Behavior	Background level, task level
Eco-On Level	5-100%
Hold Time	0.5 - 60 minutes
Viewing Angle	X=72°, Y = 86° ( See detection pattern)
Background Light Level	0-100%
Prolong Time	0 minutes - infinity
Grace Fading	0-25 seconds
Response Time/Fading to Switch On/Off	0.7 seconds

Continued on next page.

1. View limited warranty at <http://www.usa.lighting.philips.com/support/support/warranty>.

# EasySense fixture-mount sensor

## Product Data (continued)

All specifications are typical and at 25°C Tcase unless otherwise specified.

<b>Daylight Sensing</b>	
Enable/Disable	Default enabled
Auto-Calibration	Upon power-up
Viewing Angle	40° (half value sensitivity); 2% cut-off point at 75°
<b>Task Tuning</b>	
Full Light Setting	5-100%
<b>Environment &amp; Approbation</b>	
Operating Ambient Temperature Range	0°C to 55°C
Operating Humidity	0 – 95% non condensing
Storage Temperature	-25°C to 85°C
Storage Humidity	0-95% non condensing
Max Case Temperature (Tcase)	55°C
Agency Approbations	UL, CSA; Tested and approved for use in plenums; FCC ID: 2AF2N-SNS100; IC: 20659-SNS100
Certification	California Title 20
Warranty	5 years
Digital Interface	Xitanium SR
<b>Other</b>	
Wireless Protocol	Zigbee, IEEE 802.15.4
Encryption	AES-128
LED Status Indicators	Red, Yellow. Yellow LED on: Vacancy & Sensor is functional; Red LED on: Occupancy detected
No. Drivers per Sensor	4 max
Max Distance Switch-to-First-Fixture	33ft line-of-sight
Max Distance Fixture-to-Fixture	40ft line-of-sight
No. Switches per Group	5 max
Field Configuration	via NFC or IR, parameters set via Philips field apps

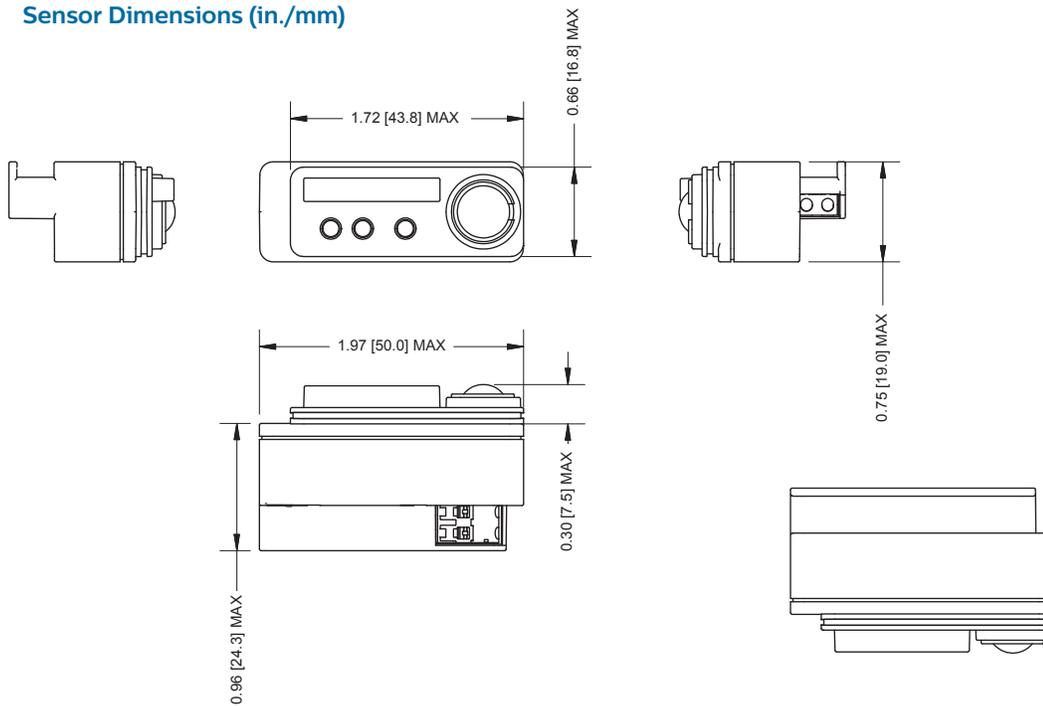
## Compatible LED Drivers

Driver Model Number	Description
XI040C110V054VPT1	Xitanium 40W 0.1-1.1A 27-54V 120-277V SR
XI075C200V054VPT1	Xitanium 75W 0.1-2.0A 27-54V 120-277V SR

Specifications available at [www.philips.com/xitaniumsr/na](http://www.philips.com/xitaniumsr/na).

# EasySense fixture-mount sensor

## Sensor Dimensions (in./mm)



## Mounting Dimensions (in./mm)

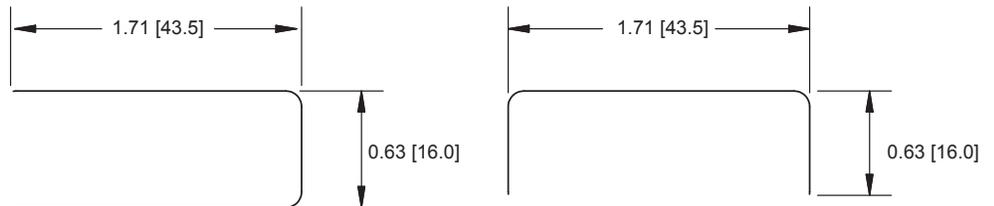
### Accessory Mounting Ring

Part Number SMR-50 / Set of 50

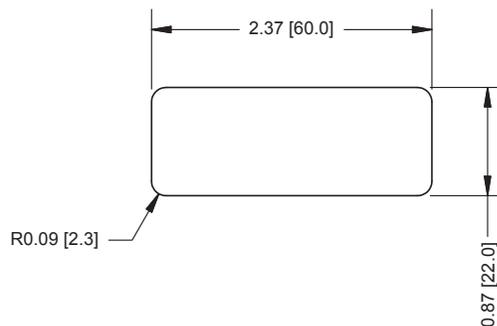
- (1) SMR-50 includes a set of (50) mounting rings
- Ordered separately, not included with EasySense
- Dimensions: 53mm x 26mm x 1.5mm



Mounting in U-shaped slot in sheet metal (max thickness 1 mm), tolerance +0.2mm/-0.0mm



Mounting in cut-out in sheet metal (thickness 0.7 mm to 1.0 mm), tolerance +/-0.2mm



### Accessory Mounting Bracket

Part Number SMB-50 / Set of 50

- (1) SMB-50 includes (50) mounting brackets
- Ordered separately, not included with EasySense
- Dimensions: 64.1mm x 25.3mm x 10.3mm



Project Name	Type
Catalog #	Date

# ARCHITECTURAL CONICAL RECESSED LED LIGHTING

## ACR14 LED



### APPLICATIONS

- Office Spaces
- Conference Rooms
- Municipal Facilities
- Medical Facilities
- Financial Institutions
- Retail Spaces
- Hospitality Areas
- Corridors

### APPROVALS

- ETL listed .Complies with UL1598 and CSAC22.2#250.0.0:2008
- IC Rated.
- BAA Compliant.
- RoHS Compliant.
- Appropriate parts/test guidelines were performed by ATAL [www.ata-labs.com](http://www.ata-labs.com)
- Select models DLC Qualified. For a complete list of DLC Qualified product please visit: [www.xtralight.com/dlc](http://www.xtralight.com/dlc) or [www.designlights.org/qpl](http://www.designlights.org/qpl)

### FEATURES

- A stylish architectural recessed troffer that uses patented LED technology to create soft and consistent illumination.
- Proprietary frosted ribbed lens engineered to maximize lumen output and minimize glare.
- Symmetrical contoured reflectors provide smooth light distribution.
- Tunable White option is available on our [website](#):

### CONSTRUCTION

- Housing: code gauge steel for durability and painted white.
- End caps secured to housing for strength and rigidity.
- Integral T-grid clips included.

### ELECTRICAL

- Voltage: 120-277VAC input.
- Driver: 24VDC Class 2, constant current, electronic power supply factory calibrated to LED modules. Multi-volt 120-277V with 0-10V dimming as standard.
- Wiring: Internal factory wiring and pre-installed LED modules.

### ACCESSORIES

- Recessed troffer flange kit available, ordered separately (consult factory).

### WARRANTY

- Backed by XtraLight's industry leading 10-year warranty.

### ORDER LOGIC

### SAMPLE CATALOG NUMBER: ACR14-5000L-30K-DIM

ACR14 - - - -

MODEL	CCT	DRIVER	OPTIONS
3000L	30K 3000K	DIM Dimmable 0-10V, Multi-Volt 120-277V	EM Emergency Battery Back-up
4000L	35K 3500K	LDE1 Hi-Lume™ 1% EcoSystem™ LED Driver with Soft-On, Fade-to-Black™	GTG Generator Transfer Device
5000L	40K 4000K	LDE5 5-Series EcoSystem™ LED Driver	FSP2 PIR Sensor, 8'H x 44'D
6000L	50K 5000K	LTEA2W Hi-Lume™ 1% 2-Wire LED Driver (120V forward phase only)	FSP3 PIR Sensor, 20'H x 40'D
8500L			FCJ010 0-10V Wireless RF Fixture Control Module to use with 0-10V drivers for individual fixture control
			AIR Air Return Slots
			SM Surface Mount Body
			MET 300mm x 1200mm Size

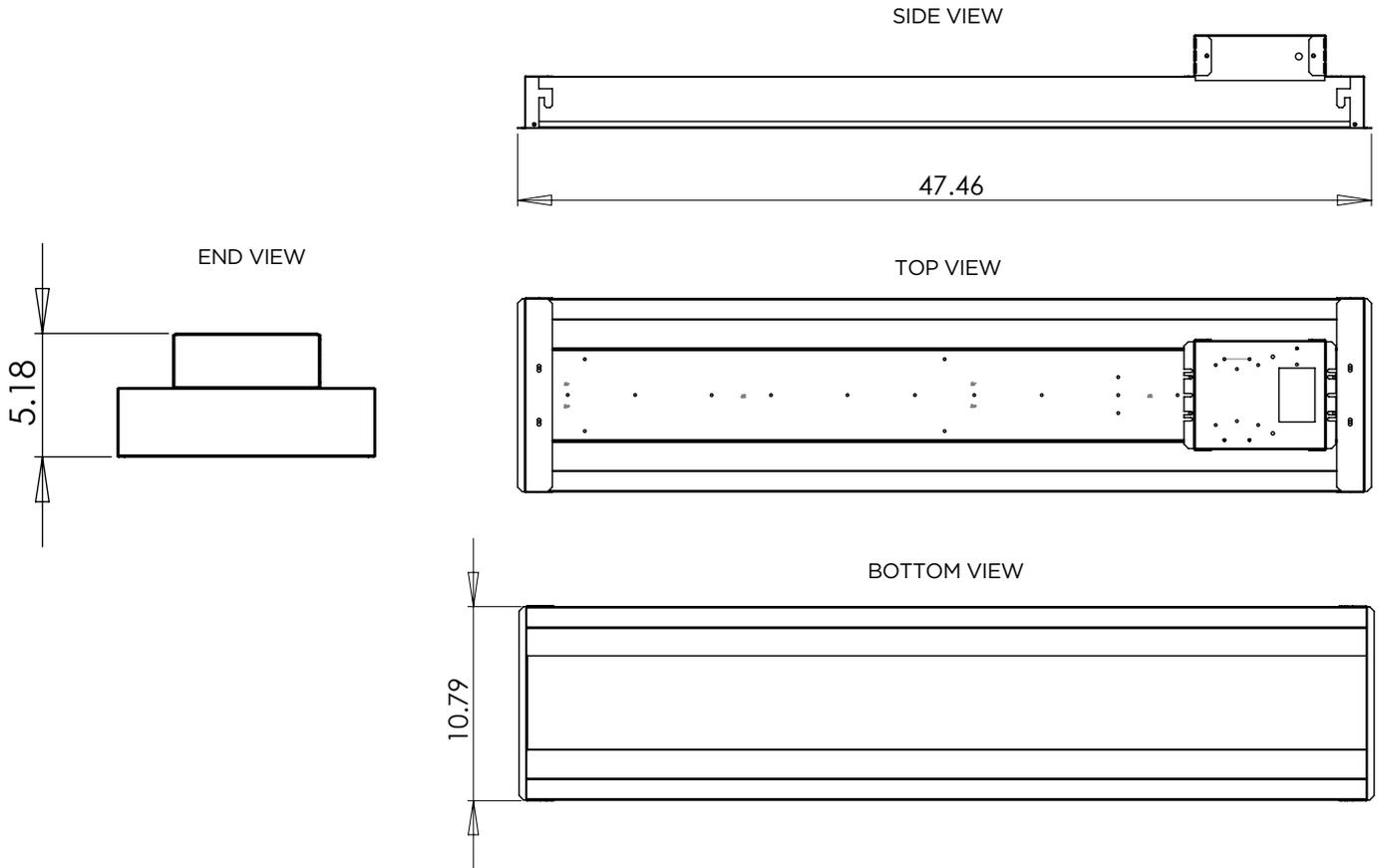
1. Use with Lutron wireless occupancy sensors and controls. ETL listed with DIM driver only.



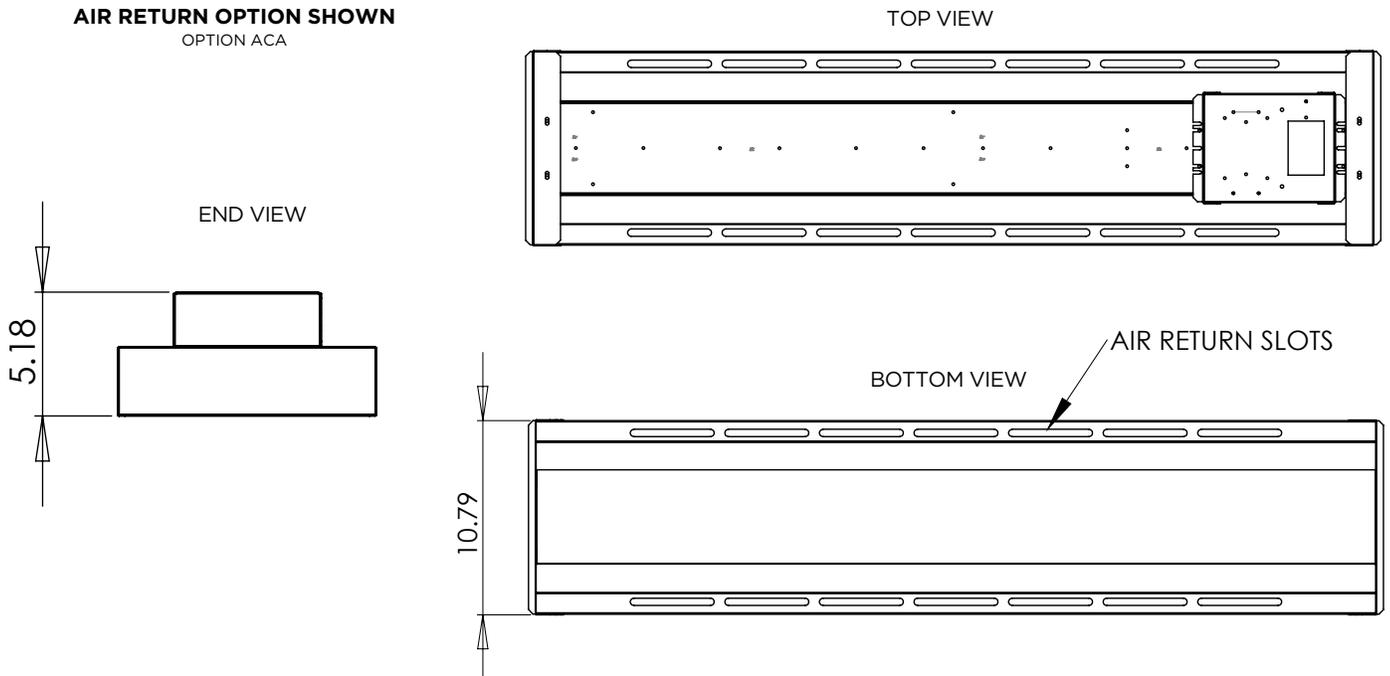
# ARCHITECTURAL CONICAL RECESSED LED LIGHTING

## ACR LED 1X4

### DIMENSIONAL DATA



### AIR RETURN OPTION SHOWN OPTION ACA



# ARCHITECTURAL CONICAL RECESSED LED LIGHTING

## ACR14 LED

### PHOTOMETRIC DATA

#### ACR14-4000L

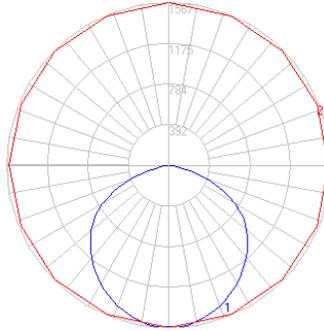
Catalog Number:

**ACR14-4000L-40K-DIM**

Report Number: ATALO26576.ies  
 Issue Date: 10/09/18  
 Lamp: (2) LED Modules  
 Lens/Optics: Ribbed Lens  
 IESNA: LM-63-2002  
 Total Input Watts: 32.8  
 Efficacy (Lm/W): 128.4  
 Total Lumens: 4211

Prepared by: American Testing & Assessment Laboratory

NOTE: Data shown is absolute for product shown.



#### CANDELA DISTRIBUTION

	0°	22.5°	45°	67.5°	90°
0°	1557	1557	1557	1557	1557
15°	1459	1466	1476	1486	1493
25°	1319	1327	1348	1373	1384
35°	1123	1136	1179	1223	1242
45°	898	915	979	1048	1073
55°	669	683	770	853	872
65°	447	462	551	589	578
75°	240	265	282	239	213
85°	61	57	27	27	26
90°	0	0	0	0	0

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	1184.89	28.10
0-40	1923.20	45.70
0-60	3368.64	80.00
0-90	4211.07	100.00
90-180	0.00	0.00
0-180	4211.07	100.00

#### AVERAGE LUMINANCE

	0°	45°	90°
45°	3638	3967	4348
55°	3342	3846	4356
65°	3030	3735	3918
75°	2657	3122	2358
85°	2005	888	855

#### ACR14-5000L

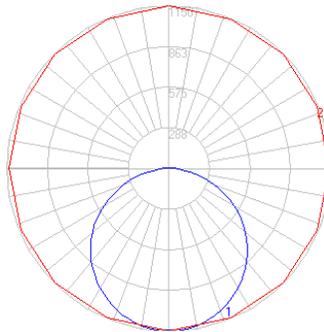
Catalog Number:

**ACR14-5000L-40K-DIM**

Report Number: ATALO20863.ies  
 Issue Date: 10/19/17  
 Lamp: (2) LED Modules  
 Lens/Optics: Ribbed Lens  
 IESNA: LM-63-2002  
 Total Input Watts: 43.5  
 Efficacy (Lm/W): 111.5  
 Total Lumens: 4850

Prepared by: American Testing & Assessment Laboratory

NOTE: Data shown is absolute for product shown.



#### CANDELA DISTRIBUTION

	0°	22.5°	45°	67.5°	90°
0°	1759	1759	1759	1759	1759
15°	1656	1663	1674	1684	1693
25°	1500	1510	1534	1561	1573
35°	1286	1299	1348	1394	1412
45°	1033	1050	1123	1195	1224
55°	771	787	884	976	1004
65°	519	537	639	687	685
75°	285	312	345	298	264
85°	81	82	40	34	33
90°	6	3	2	2	2

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	1345.56	27.70
0-40	2188.42	45.10
0-60	3485.78	79.30
0-90	4849.78	100.00
90-180	0.37	0.00
0-180	4850.15	100.00

#### AVERAGE LUMINANCE

	0°	45°	90°
45°	4376	4757	5185
55°	4026	4616	5243
65°	3678	4529	4855
75°	3298	3993	3055
85°	2784	1375	1134

#### ACR14-6000L

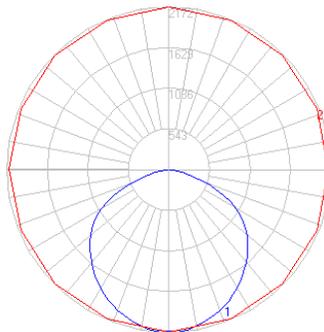
Catalog Number:

**ACR14-6000L-40K-DIM**

Report Number: ATALO18646.ies  
 Issue Date: 07/26/17  
 Lamp: (2) LED Modules  
 Lens/Optics: Ribbed Lens  
 IESNA: LM-63-2002  
 Total Input Watts: 53.1  
 Efficacy (Lm/W): 110.8  
 Total Lumens: 5883

Prepared by: American Testing & Assessment Laboratory

NOTE: Data shown is absolute for product shown.



#### CANDELA DISTRIBUTION

	0°	22.5°	45°	67.5°	90°
0°	1145	1145	1145	1145	1145
15°	1091	1092	1095	1099	1104
25°	1013	1014	1018	1022	1026
35°	898	901	907	915	919
45°	745	751	768	782	787
55°	554	569	606	620	624
65°	356	380	424	434	439
75°	183	212	242	243	240
85°	45	83	97	91	88
90°	14	43	56	53	52

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	1646.38	28.00
0-40	2675.30	45.50
0-60	4695.25	79.80
0-90	5883.01	100.00
90-180	0.38	0.00
0-180	5883.38	100.00

#### AVERAGE LUMINANCE

	0°	45°	90°
45°	5138	5539	6049
55°	4725	5365	6104
65°	4291	5247	5539
75°	3885	4428	3166
85°	3254	1315	1249

# ARCHITECTURAL CONICAL RECESSED LED LIGHTING

## ACR14 LED

### PHOTOMETRIC DATA (CONT.)

#### ACR14-8500L

Catalog Number:

**ACR14-8500L-40K-DIM**

Report Number: ATALO26560.ies

Issue Date: 09/25/18

Lamp: (4) LED Modules

Lens/Optics: Ribbed Lens

IESNA: LM-63-2002

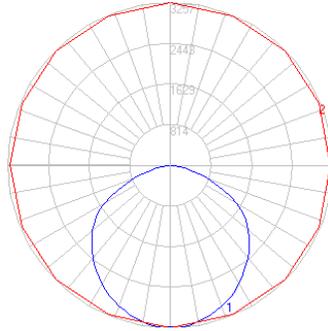
Total Input Watts: 70.3

Efficacy (Lm/W): 124.3

Total Lumens: 8735

Prepared by: American Testing & Assessment Laboratory

NOTE: Data shown is absolute for product shown.



#### CANDELA DISTRIBUTION

	0°	22.5°	45°	67.5°	90°
0°	3239	3239	3239	3239	3239
15°	3036	3050	3071	3091	3107
25°	2744	2762	2809	2857	2881
35°	2343	2368	2458	2549	2583
45°	1877	1905	2041	2182	2234
55°	1395	1424	1599	1770	1815
65°	927	960	1142	1201	1167
75°	497	544	568	475	422
85°	125	113	57	55	52
90°	1	1	0	0	0

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	2465.96	28.20
0-40	4004.20	45.80
0-60	7012.18	80.30
0-90	8734.82	100.00
90-180	0.05	0.00
0-180	8734.87	100.00

#### AVERAGE LUMINANCE

	0°	45°	90°
45°	7687	8359	9149
55°	7043	8073	9163
65°	6352	7825	7996
75°	5561	6355	4722
85°	4153	1894	1728

#### PRODUCT PERFORMANCE

REPLACES	MODEL	CCT	WATTS	LUMENS	EFFICACY
2L T12	4000L	4000K	32.8	4211	128.4 LPW
	5000L	4000K	43.5	4850	111.5 LPW
	6000L	4000K	53.1	5883	110.8 LPW
4L T12	8500L	4000K	70.3	8735	124.3 LPW

# PHILIPS

## Sensors

### EasySense

#### Fixture-Mount for Advanced Grouping



The Philips EasySense fixture-mount sensor is the ideal solution for per-fixture control of new light fixtures. It combines occupancy sensing, daylight harvesting and task tuning in a single, compact package for easy OEM fixture assembly. EasySense operates with the established Philips Advance Xitanium SR LED driver standard to make a simple two-wire connection between sensor and driver, thus eliminating the need for multiple components and auxiliary devices. The result is a cost-effective and easy-to-design-in solution ideal for energy-savings and code-compliance strategies. An intuitive app makes configuration and commissioning during and after installation fast and easy using Philips field apps.

EasySense with advanced grouping functionality enables addition of qualified wireless switches. Up to 40 sensors can be grouped to a switch using Philips field apps. In addition to easily adding user control to a space, the grouping feature facilitates auto-off/manual-on and auto-off/partial-on use cases. Furthermore, advanced grouping allows scene setting (e.g., presentation mode for a conference room), as well as occupancy sharing (i.e., fixtures within a group can be programmed to remain at prescribed light levels so long as occupancy is detected anywhere in the group).

EasySense for advanced grouping (SNS200) is also DLC qualified and listed in the QPL for Networked Lighting Controls.

Commercial Product Name	Order Code
EasySense Fixture-Mount Sensor	SNS200

# EasySense fixture-mount sensor

## Features

- Occupancy sensing, daylight harvesting and task tuning in one device
- Scene setting and occupancy sharing
- Compact size, 2-wire connection
- Operates with Philips Advance Xitanium SR LED drivers and qualified wireless switches
- Configuration of sensor parameters – if desired – using NFC or IR via intuitive Android-based Philips field apps
- DLC qualified: Listed on the QPL for Networked Lighting Controls

## Benefits

- Combines functionality to reduce need for multiple components
- Quick task tuning in the field to optimize light and power levels
- Enables auto-off/manual-on and auto-off/partial-on application
- Cost-effective solution for energy-savings and code-compliance strategies
- 5-year limited system warranty with Philips Advance Xitanium LED drivers<sup>1</sup>
- Configuration and commissioning from the floor

## Applications

- Conference rooms
- Individual offices
- Open offices
- Classrooms
- Storage and break areas
- Restrooms
- Lobbies
- Stairways

## Product Data

All specifications are typical and at 25°C Tcase unless otherwise specified.

Ordering Information	
Order Code	SNS200
Full Product Name	EasySense Fixture-Mount Sensor
Carton Quantity	50 pcs/carton
Physical Information	
Overall Dimensions	1.97in x 0.75in x 1.24in / 50mm x 19.0mm x 31.5mm
Housing (Luminaire Hole)	1.73in x 0.67in / 44mm x 17mm (L x w)
Net Weight per Piece	0.6oz / 17gr
Volume Required Inside Luminaire (LxWxH)	1.87in x 0.75in x 0.95in / 50mm x 19mm x 24mm
Color	White
Connectors	WAGO 20160 2-pole terminal block rated for AWG24 to AWG18 solid or stranded wire
Electrical Information	
Input Voltage	Powered by SR driver low-voltage interface
Current Consumption	13mA
Nominal Power Consumption	200mW
Standby Power	< 1 W on luminaire level, including driver standby power
Occupancy Sensing	
Type	Passive infrared (PIR)
Enable/Disable	Default enabled
Occupancy Mode	Auto-on/off, Manual-on/off, Manual-on/auto-off; Red LED indicates occupancy detected
Group Occupancy Sharing	Enabled/disabled
Group Lighting Behavior	Background level, task level
Eco-On Level	5-100%
Hold Time	0.5 - 60 minutes
Viewing Angle	X=72°, Y = 86° ( See detection pattern)
Background Light Level	0-100%
Prolong Time	0 minutes - infinity
Grace Fading	0-25 seconds
Response Time/Fading to Switch On/Off	0.7 seconds

Continued on next page.

1. View limited warranty at <http://www.usa.lighting.philips.com/support/support/warranty>.

# EasySense fixture-mount sensor

## Product Data (continued)

All specifications are typical and at 25°C Tcase unless otherwise specified.

<b>Daylight Sensing</b>	
Enable/Disable	Default enabled
Auto-Calibration	Upon power-up
Viewing Angle	40° (half value sensitivity); 2% cut-off point at 75°
<b>Task Tuning</b>	
Full Light Setting	5-100%
<b>Environment &amp; Approbation</b>	
Operating Ambient Temperature Range	0°C to 55°C
Operating Humidity	0 – 95% non condensing
Storage Temperature	-25°C to 85°C
Storage Humidity	0-95% non condensing
Max Case Temperature (Tcase)	55°C
Agency Approbations	UL, CSA; Tested and approved for use in plenums; FCC ID: 2AF2N-SNS100; IC: 20659-SNS100
Certification	California Title 20
Warranty	5 years
Digital Interface	Xitanium SR
<b>Other</b>	
Wireless Protocol	Zigbee, IEEE 802.15.4
Encryption	AES-128
LED Status Indicators	Red, Yellow. Yellow LED on: Vacancy & Sensor is functional; Red LED on: Occupancy detected
No. Drivers per Sensor	4 max
Max Distance Switch-to-First-Fixture	33ft line-of-sight
Max Distance Fixture-to-Fixture	40ft line-of-sight
No. Switches per Group	5 max
Field Configuration	via NFC or IR, parameters set via Philips field apps

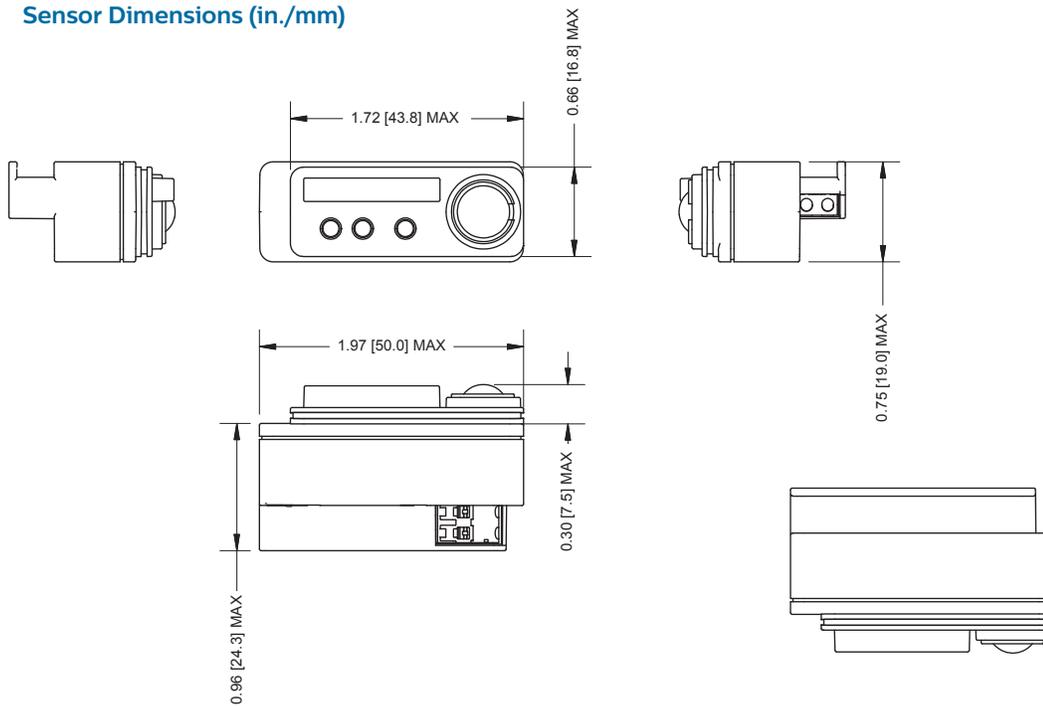
## Compatible LED Drivers

Driver Model Number	Description
XI040C110V054VPT1	Xitanium 40W 0.1-1.1A 27-54V 120-277V SR
XI075C200V054VPT1	Xitanium 75W 0.1-2.0A 27-54V 120-277V SR

Specifications available at [www.philips.com/xitaniumsr/na](http://www.philips.com/xitaniumsr/na).

# EasySense fixture-mount sensor

## Sensor Dimensions (in./mm)



## Mounting Dimensions (in./mm)

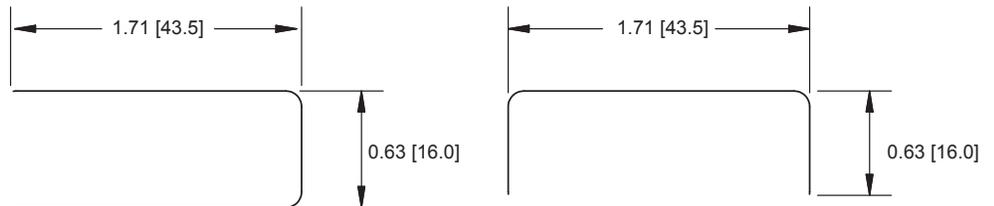
### Accessory Mounting Ring

Part Number SMR-50 / Set of 50

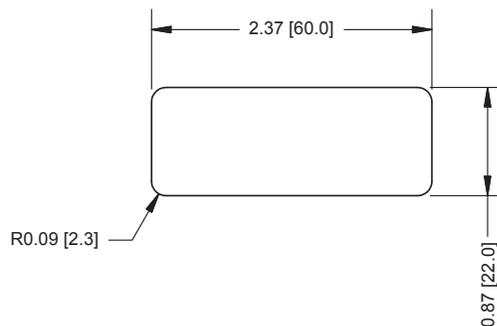
- (1) SMR-50 includes a set of (50) mounting rings
- Ordered separately, not included with EasySense
- Dimensions: 53mm x 26mm x 1.5mm



Mounting in U-shaped slot in sheet metal (max thickness 1 mm), tolerance +0.2mm/-0.0mm



Mounting in cut-out in sheet metal (thickness 0.7 mm to 1.0 mm), tolerance +/-0.2mm



### Accessory Mounting Bracket

Part Number SMB-50 / Set of 50

- (1) SMB-50 includes (50) mounting brackets
- Ordered separately, not included with EasySense
- Dimensions: 64.1mm x 25.3mm x 10.3mm



Project Name	Type
Catalog #	Date

# ARCHITECTURAL CONICAL RECESSED LED LIGHTING

## ACR22 LED



### APPLICATIONS

- Office Spaces
- Conference Rooms
- Municipal Facilities
- Medical Facilities
- Financial Institutions
- Retail Spaces
- Hospitality Areas
- Corridors

### APPROVALS

- ETL Listed (with DIM driver only).
- Complies with UL1598 and CSAC22.2#250.0.0:2008
- IC Rated
- BAA Compliant
- RoHS Compliant
- Appropriate parts/test guidelines were performed by ATAL [www.ata-labs.com](http://www.ata-labs.com)
- Select models DLC Qualified. For a complete list of DLC Qualified product please visit: [www.xtralight.com/dlc](http://www.xtralight.com/dlc) or [www.designlights.org/apl](http://www.designlights.org/apl)

### FEATURES

- A stylish architectural recessed troffer that uses patented LED technology to create soft and consistent illumination.
- Proprietary frosted ribbed lens engineered to maximize lumen output and minimize glare.
- Symmetrical contoured reflectors provide smooth light distribution.
- Tunable White option is available.

### CONSTRUCTION

- Housing: code gauge steel for durability and painted white.
- End caps secured to housing for strength and rigidity.
- Integral T-grid clips included.

### ELECTRICAL

- Voltage: 120-277VAC input.
- Driver: 24VDC Class 2, constant current, electronic power supply factory calibrated to LED modules. Multi-volt 120-277V with 0-10V dimming as standard.
- Wiring: Internal factory wiring and pre-installed LED modules.

### ACCESSORIES

- Recessed troffer flange kit available, ordered separately (consult factory).

### WARRANTY

- Backed by XtraLight's industry leading 10-year warranty.

### ORDER LOGIC

### SAMPLE CATALOG NUMBER: ACR22-3000L-40K-DIM

ACR22	-		-		-	
-------	---	--	---	--	---	--

MODEL	CCT	DRIVER	OPTIONS
2000L	30K 3000K	<b>DIM</b> Dimmable 0-10V, Multi-Volt 120-277V	<b>EM</b> Emergency Battery Back-up
3000L	35K 3500K	<b>LDE1</b> Hi-Lume™ 1% EcoSystem™ LED Driver with Soft-On, Fade-to-Black™	<b>GTD</b> Generator Transfer Device
3500L	40K 4000K	<b>LDE5</b> 5-Series EcoSystem™ LED Driver	<b>FSP2</b> PIR Sensor, 8'H x 44'D
4500L	50K 5000K	<b>LTEA2W</b> Hi-Lume™ 1% 2-Wire LED Driver (120V forward phase only)	<b>FSP3</b> PIR Sensor, 20'H x 40'D
			<b>FCJ010</b> 0-10V Wireless RF Fixture Control Module to use with 0-10V drivers for individual fixture control
			<b>AIR</b> Air Return Slots
			<b>SM</b> Surface Mount Body
			<b>MET</b> 600mm x 600mm Size

1. Use with Lutron wireless occupancy sensors and controls.

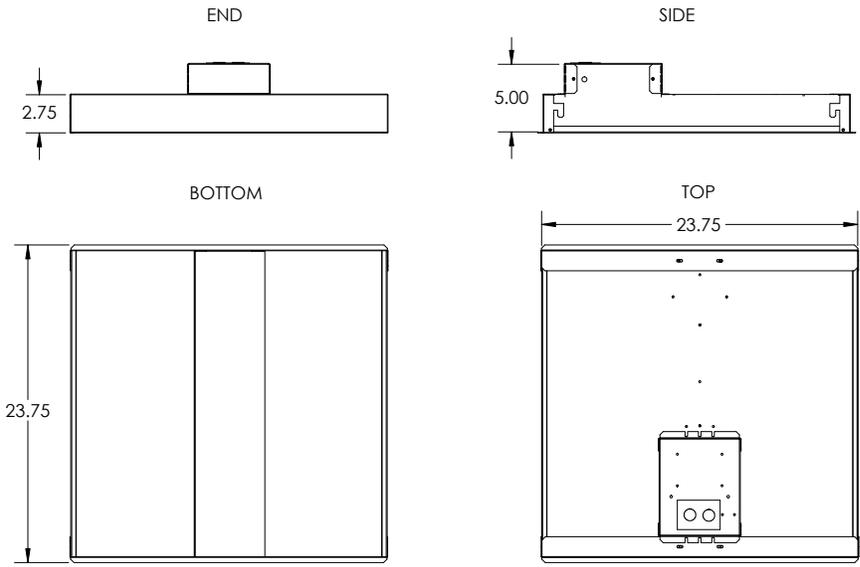


# ARCHITECTURAL CONICAL RECESSED LED LIGHTING

## ACR22 LED

### DIMENSIONAL DATA

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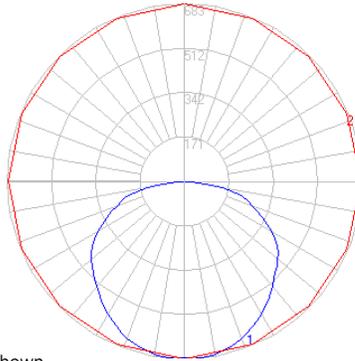
# ARCHITECTURAL CONICAL RECESSED LED LIGHTING

## ACR22 LED

### PHOTOMETRIC DATA

#### ACR22-2000L

Catalog Number: ACR22-2000L-40K-DIM  
 Report Number: ATALO18652.ies  
 Issue Date: 06/26/17  
 Lamp: (1) LED Module  
 Lens/Optics: Ribbed  
 IESNA: LM-63-2002  
 Total Input Watts: 16.8  
 Efficacy (Lm/W): 117.7  
 Total Lumens: 1977  
 Prepared by: American Testing & Assessment Laboratory  
 NOTE: Data shown is absolute for product shown.



#### CANDELA DISTRIBUTION

	0°	22.5°	45°	67.5°	90°
0°	680	680	680	680	680
15°	677	675	677	679	682
25°	641	642	651	658	661
35°	573	579	595	613	618
45°	482	493	519	548	559
55°	380	395	433	476	495
65°	279	296	349	412	435
75°	183	203	268	310	330
85°	99	124	164	208	232
90°	29	39	45	34	26

#### ZONAL LUMEN SUMMARY

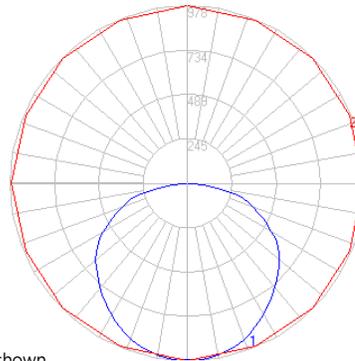
Zone	Lumens	%Fixt
0-30	522.04	26.40
0-40	847.49	42.90
0-60	1499.27	75.80
0-90	1977.12	100.00
90-180	0.14	0.00
0-180	1977.26	100.00

#### AVERAGE LUMINANCE

	0°	45°	90°
45°	1590	1812	2072
55°	1440	1801	2244
65°	1282	1877	2311
75°	1132	1875	2653
85°	985	1528	883

#### ACR22-3000L

Catalog Number: ACR22-3000L-40K-DIM  
 Report Number: ATALO26561.ies  
 Issue Date: 09/20/18  
 Lamp: (1) LED Module  
 Lens/Optics: Ribbed  
 IESNA: LM-63-2002  
 Total Input Watts: 26.8  
 Efficacy (Lm/W): 103.4  
 Total Lumens: 2770  
 Prepared by: American Testing & Assessment Laboratory  
 NOTE: Data shown is absolute for product shown.



#### CANDELA DISTRIBUTION

	0°	22.5°	45°	67.5°	90°
0°	973	973	973	973	973
15°	908	911	924	935	941
25°	810	819	842	867	877
35°	682	697	735	777	794
45°	538	558	612	675	704
55°	392	417	492	575	607
65°	257	286	370	430	460
75°	138	169	224	286	320
85°	36	46	47	25	16
90°	0	0	0	0	0

#### ZONAL LUMEN SUMMARY

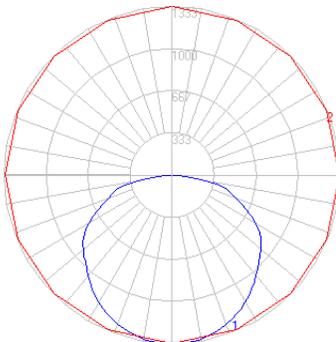
Zone	Lumens	%Fixt
0-30	740.55	26.70
0-40	1201.51	43.40
0-60	2121.09	76.60
0-90	2770.13	100.00
90-180	0.00	0.00
0-180	2770.13	100.00

#### AVERAGE LUMINANCE

	0°	45°	90°
45°	2227	2534	2914
55°	2001	2511	3098
65°	1780	2563	3186
75°	1561	2534	3619
85°	1209	1579	537

#### ACR22-3500L

Catalog Number: ACR22-3500L-40K-DIM  
 Report Number: ATAL18656.ies  
 Issue Date: 06/22/17  
 Lamp: (2) LED Modules  
 Lens/Optics: Ribbed  
 IESNA: LM-63-2002  
 Total Input Watts: 33.7  
 Efficacy (Lm/W): 115.5  
 Total Lumens: 3892  
 Prepared by: American Testing & Assessment Laboratory  
 NOTE: Data shown is absolute for product shown.



#### CANDELA DISTRIBUTION

	0°	22.5°	45°	67.5°	90°
0°	1327	1327	1327	1327	1327
15°	1259	1261	1275	1289	1295
25°	1133	1143	1174	1202	1215
35°	956	976	1030	1080	1101
45°	753	782	860	940	974
55°	550	585	690	813	857
65°	357	400	527	615	648
75°	191	241	319	406	453
85°	56	72	86	63	52
90°	4	3	2	0	0

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	1026.05	26.40
0-40	1669.71	42.90
0-60	2958.83	76.00
0-90	3892.05	100.00
90-180	0.24	0.00
0-180	3892.29	100.00

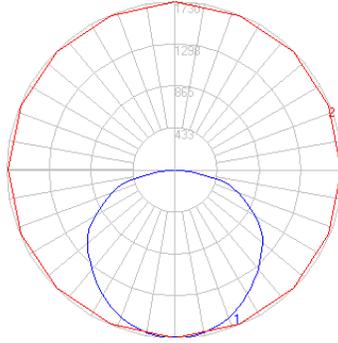
#### AVERAGE LUMINANCE

	0°	45°	90°
45°	3152	3599	4077
55°	2838	3560	4422
65°	2500	3690	4538
75°	2184	3648	5180
85°	1902	2920	1766

**PHOTOMETRIC DATA (CONT.)**

**ACR22-4500L**

Catalog Number:  
ACR22-4500L-40K-DIM  
Report Number: ATALO26644.ies  
Issue Date: 09/25/18  
Lamp: (2) LED Modules  
Lens/Optics: Ribbed  
IESNA: LM-63-2002  
Total Input Watts: 41.3  
Efficacy (Lm/W): 119.2  
Total Lumens: 4925  
Prepared by: American Testing & Assessment Laboratory  
NOTE: Data shown is absolute for product shown.



	0°	22.5°	45°	67.5°	90°
0°	1723	1723	1723	1723	1723
15°	1608	1614	1636	1657	1666
25°	1435	1449	1493	1539	1555
35°	1208	1234	1307	1380	1410
45°	956	992	1090	1201	1252
55°	698	742	878	1024	1080
65°	458	512	659	765	817
75°	245	303	400	511	570
85°	64	83	84	54	39
90°	1	1	0	0	0

Zone	Lumens	%Fixt
0-30	1312.20	26.60
0-40	2130.32	43.30
0-60	3766.34	76.50
0-90	4924.99	100.00
90-180	0.05	0.00
0-180	4925.04	100.00

**AVERAGE LUMINANCE**

	0°	45°	90°
45°	4001	4562	5240
55°	3601	4530	5572
65°	3207	4615	5721
75°	2801	4574	6518
85°	2173	2852	1324

**PRODUCT PERFORMANCE**

REPLACES	MODEL	CCT	WATTS	LUMENS	EFFICACY
2L T12	2000L	4000K	16.8	1977	117.7 LPW
	3000L	4000K	26.8	2770	103.4 LPW
	3500L	4000K	33.7	3892	115.5 LPW
	4500L	4000K	41.3	4925	119.2 LPW

# PHILIPS

## Sensors

### EasySense

#### Fixture-Mount for Advanced Grouping



The Philips EasySense fixture-mount sensor is the ideal solution for per-fixture control of new light fixtures. It combines occupancy sensing, daylight harvesting and task tuning in a single, compact package for easy OEM fixture assembly. EasySense operates with the established Philips Advance Xitanium SR LED driver standard to make a simple two-wire connection between sensor and driver, thus eliminating the need for multiple components and auxiliary devices. The result is a cost-effective and easy-to-design-in solution ideal for energy-savings and code-compliance strategies. An intuitive app makes configuration and commissioning during and after installation fast and easy using Philips field apps.

EasySense with advanced grouping functionality enables addition of qualified wireless switches. Up to 40 sensors can be grouped to a switch using Philips field apps. In addition to easily adding user control to a space, the grouping feature facilitates auto-off/manual-on and auto-off/partial-on use cases. Furthermore, advanced grouping allows scene setting (e.g., presentation mode for a conference room), as well as occupancy sharing (i.e., fixtures within a group can be programmed to remain at prescribed light levels so long as occupancy is detected anywhere in the group).

EasySense for advanced grouping (SNS200) is also DLC qualified and listed in the QPL for Networked Lighting Controls.

Commercial Product Name	Order Code
EasySense Fixture-Mount Sensor	SNS200

# EasySense fixture-mount sensor

## Features

- Occupancy sensing, daylight harvesting and task tuning in one device
- Scene setting and occupancy sharing
- Compact size, 2-wire connection
- Operates with Philips Advance Xitanium SR LED drivers and qualified wireless switches
- Configuration of sensor parameters – if desired – using NFC or IR via intuitive Android-based Philips field apps
- DLC qualified: Listed on the QPL for Networked Lighting Controls

## Benefits

- Combines functionality to reduce need for multiple components
- Quick task tuning in the field to optimize light and power levels
- Enables auto-off/manual-on and auto-off/partial-on application
- Cost-effective solution for energy-savings and code-compliance strategies
- 5-year limited system warranty with Philips Advance Xitanium LED drivers<sup>1</sup>
- Configuration and commissioning from the floor

## Applications

- Conference rooms
- Individual offices
- Open offices
- Classrooms
- Storage and break areas
- Restrooms
- Lobbies
- Stairways

## Product Data

All specifications are typical and at 25°C Tcase unless otherwise specified.

Ordering Information	
Order Code	SNS200
Full Product Name	EasySense Fixture-Mount Sensor
Carton Quantity	50 pcs/carton
Physical Information	
Overall Dimensions	1.97in x 0.75in x 1.24in / 50mm x 19.0mm x 31.5mm
Housing (Luminaire Hole)	1.73in x 0.67in / 44mm x 17mm (L x w)
Net Weight per Piece	0.6oz / 17gr
Volume Required Inside Luminaire (LxWxH)	1.87in x 0.75in x 0.95in / 50mm x 19mm x 24mm
Color	White
Connectors	WAGO 20160 2-pole terminal block rated for AWG24 to AWG18 solid or stranded wire
Electrical Information	
Input Voltage	Powered by SR driver low-voltage interface
Current Consumption	13mA
Nominal Power Consumption	200mW
Standby Power	< 1 W on luminaire level, including driver standby power
Occupancy Sensing	
Type	Passive infrared (PIR)
Enable/Disable	Default enabled
Occupancy Mode	Auto-on/off, Manual-on/off, Manual-on/auto-off; Red LED indicates occupancy detected
Group Occupancy Sharing	Enabled/disabled
Group Lighting Behavior	Background level, task level
Eco-On Level	5-100%
Hold Time	0.5 - 60 minutes
Viewing Angle	X=72°, Y = 86° ( See detection pattern)
Background Light Level	0-100%
Prolong Time	0 minutes - infinity
Grace Fading	0-25 seconds
Response Time/Fading to Switch On/Off	0.7 seconds

Continued on next page.

1. View limited warranty at <http://www.usa.lighting.philips.com/support/support/warranty>.

# EasySense fixture-mount sensor

## Product Data (continued)

All specifications are typical and at 25°C Tcase unless otherwise specified.

<b>Daylight Sensing</b>	
Enable/Disable	Default enabled
Auto-Calibration	Upon power-up
Viewing Angle	40° (half value sensitivity); 2% cut-off point at 75°
<b>Task Tuning</b>	
Full Light Setting	5-100%
<b>Environment &amp; Approbation</b>	
Operating Ambient Temperature Range	0°C to 55°C
Operating Humidity	0 – 95% non condensing
Storage Temperature	-25°C to 85°C
Storage Humidity	0-95% non condensing
Max Case Temperature (Tcase)	55°C
Agency Approbations	UL, CSA; Tested and approved for use in plenums; FCC ID: 2AF2N-SNS100; IC: 20659-SNS100
Certification	California Title 20
Warranty	5 years
Digital Interface	Xitanium SR
<b>Other</b>	
Wireless Protocol	Zigbee, IEEE 802.15.4
Encryption	AES-128
LED Status Indicators	Red, Yellow. Yellow LED on: Vacancy & Sensor is functional; Red LED on: Occupancy detected
No. Drivers per Sensor	4 max
Max Distance Switch-to-First-Fixture	33ft line-of-sight
Max Distance Fixture-to-Fixture	40ft line-of-sight
No. Switches per Group	5 max
Field Configuration	via NFC or IR, parameters set via Philips field apps

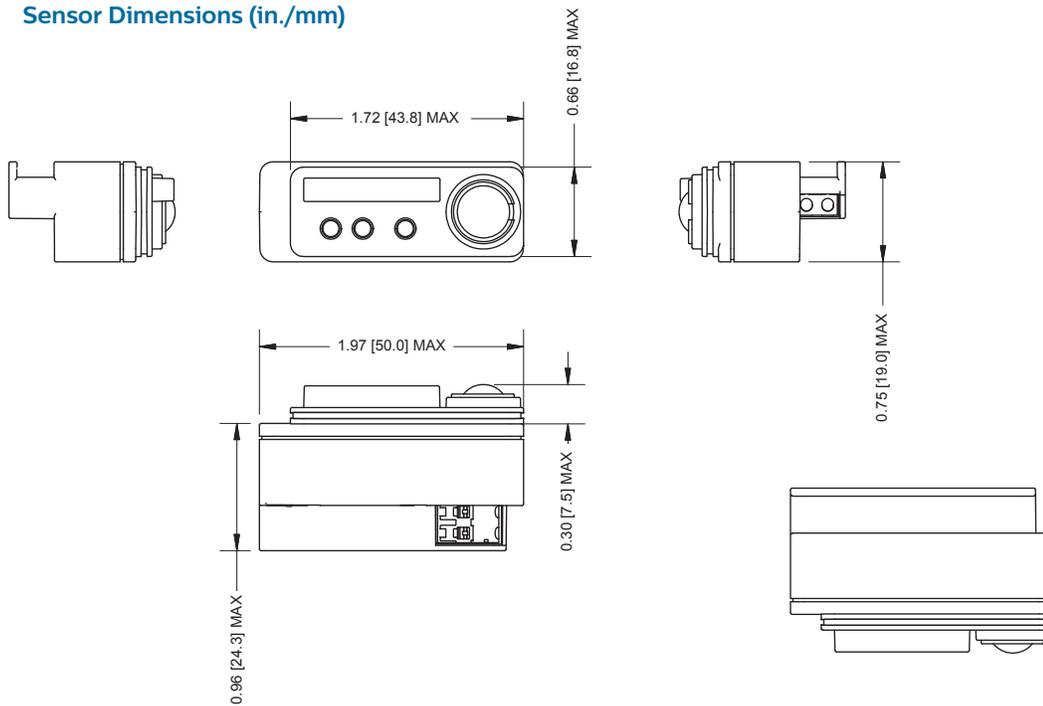
## Compatible LED Drivers

Driver Model Number	Description
XI040C110V054VPT1	Xitanium 40W 0.1-1.1A 27-54V 120-277V SR
XI075C200V054VPT1	Xitanium 75W 0.1-2.0A 27-54V 120-277V SR

Specifications available at [www.philips.com/xitaniumsr/na](http://www.philips.com/xitaniumsr/na).

# EasySense fixture-mount sensor

## Sensor Dimensions (in./mm)



## Mounting Dimensions (in./mm)

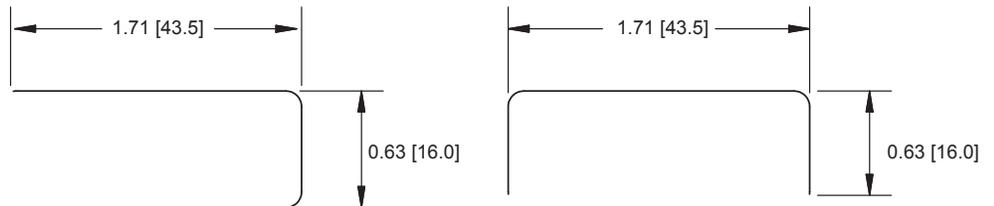
### Accessory Mounting Ring

Part Number SMR-50 / Set of 50

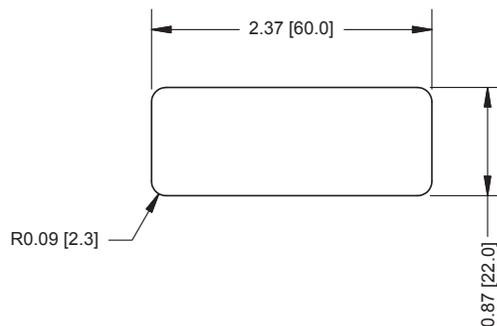
- (1) SMR-50 includes a set of (50) mounting rings
- Ordered separately, not included with EasySense
- Dimensions: 53mm x 26mm x 1.5mm



Mounting in U-shaped slot in sheet metal (max thickness 1 mm), tolerance +0.2mm/-0.0mm



Mounting in cut-out in sheet metal (thickness 0.7 mm to 1.0 mm), tolerance +/-0.2mm



### Accessory Mounting Bracket

Part Number SMB-50 / Set of 50

- (1) SMB-50 includes (50) mounting brackets
- Ordered separately, not included with EasySense
- Dimensions: 64.1mm x 25.3mm x 10.3mm



## LDD-700S series

# WALLSENZR

### Line Voltage Dual-Tech Wall Switch Sensor with 0-10V Dimming



## OVERVIEW

The LDD-700S is a line voltage dual technology wall switch sensor with 0-10V dimming output that can turn lights ON/OFF based on occupancy and also allow the user to manually increase or decrease the lighting level as required. This sensor combines digital Passive Infrared (PIR) and High Frequency Doppler (HFD) sensing technologies into an aesthetically pleasing housing to provide occupancy or vacancy sensing based lighting control. HFD is an advanced motion sensing technology capable of providing exceptional minor motion detection, without requiring open grids on the front like ultrasonic sensing technology.

The LDD-700S will automatically turn on the light at the set-level (factory default 100%) when it detects the presence of an occupant. If no motion is detected before the delay time elapses, the sensor will dim the light down to 1/3 of the set-level for 30 seconds before turning OFF. For compliance of specific energy codes, such as CA Title 24, the LDD-700S series can be easily programmed as a vacancy sensor. Thus, the sensor will turn ON the light after pressing any push-button and then control the light in the same way as above described. Two push-buttons allow the user to temporarily dim the light as desired or memorize the preferred lighting level for the next occupancy.

The sensor has a built-in ambient light sensor (ALS) to inhibit turning on the light if ambient light level is higher than the set threshold. Two digitalized Accu-Set potentiometers make delay time (TIME) and ambient light level (LUX) settings fast, easy, and accurate. Exclusive Hybrid Switching technology protects the relay contacts from being fused by the inrush current generated while switching on multiple LED lights.

## FEATURES

- Dual-tech wall switch sensor with 0-10V dimming
- Occupancy/vacancy sensing control convertible
- PIR+HFD or single HFD sensing mode switchable
- Front accessible sensor operation control setting
- Aesthetically pleasing sensor front without open grids
- 180° F. O. V. with coverage more than 1,200 sq. ft.
- 4 levels of programmable HFD detection sensitivity
- Specialized lens provides vandalism protection
- Accu-Set digital potentiometer for control settings
- Hybrid Switching technology for HIC light control
- Screwless wall plate offers appealing appearance

## APPLICATIONS

IR-TEC's Dual-Tech WALLSENZR is designed to fit in a single gang NEMA wall box to provide bi-level occupancy/vacancy sensing control to 0-10V dimmable lights for following applications:

- |                         |                        |
|-------------------------|------------------------|
| <b>Bathrooms</b>        | <b>Laundry rooms</b>   |
| <b>Classrooms</b>       | <b>Meeting rooms</b>   |
| <b>Conference rooms</b> | <b>Private offices</b> |
| <b>Entrances</b>        | <b>Playrooms</b>       |
| <b>Exit halls</b>       | <b>Restrooms</b>       |
| <b>Garages</b>          | <b>Showrooms</b>       |
| <b>Break rooms</b>      | <b>Storage rooms</b>   |
| <b>Gymnasiums</b>       | <b>Utility rooms</b>   |
| <b>Hallways</b>         | <b>Workshops</b>       |



# LDD-700S series

Line Voltage Dual-Tech Wall Switch Sensor with 0-10V Dimming



## OPERATION

The LDD-700S series dual-tech wall switch sensor employs Passive Infrared (PIR) and High Frequency Doppler (HFD) sensing technologies to monitor the occupancy status within its detection coverage. The sensor can be easily programmed as an Occupancy Sensor (Auto-ON, Auto-OFF) or Vacancy Sensor (Manual-ON, Auto-OFF) with different control modes via DIP switch settings and push-button operation.

### 1. Occupancy Sensing with ALS Control (OSAC)

When the ambient light level is lower than the set threshold, the sensor will turn ON the light at the set-level when it detects the presence of occupant. If no occupant motion has been detected during the time delay, the sensor will dim the light down to 1/3 of the set-level for 30 seconds before turning OFF.

### 2. Occupancy Sensing with ALS & PM (OSAP)

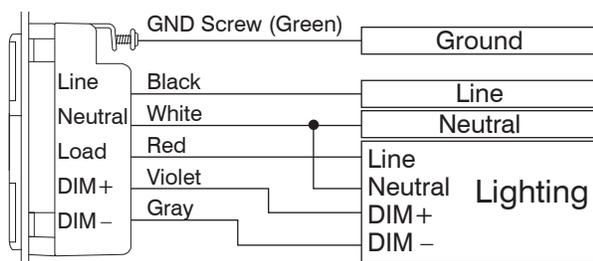
The sensor will control the light same as OSAC, but with Presentation Mode (PM) enabled.

**Presentation Mode** allows the occupant to switch off the light as desired by pressing any push-button. The light will remain off if motion is detected before the time delay elapses. Pressing the push-button again will turn the light back ON and the sensor will operate as set. If no motion has been detected and the time delay elapses, the sensor will return to normal operation and turn on the light with the next sensed motion.

### 3. Vacancy Sensing Only Control (VSOC)

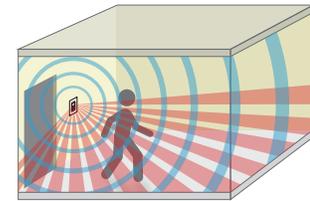
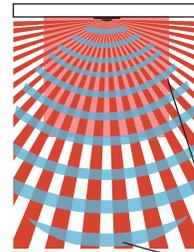
This control mode requires occupant to press any push-button to turn ON the light at the set-level, and the sensor will dim the light down to 1/3 of the set-level for 30 seconds before turning off if no occupant motion has been detected before the time delay elapses. The sensor will automatically turn the light back on if it detects occupant activity within 30 seconds after turning off.

## WIRING DIAGRAM



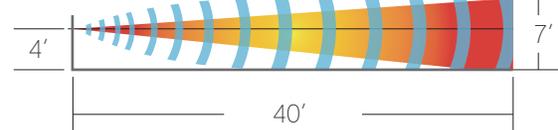
## DETECTION COVERAGE

Top view



Minor motion - 20 ft x 20 ft (W x L) @4 ft high  
Major motion - 30 ft x 40 ft (W x L) @4 ft high

Side view



## SPECIFICATIONS

Power supply	120/277VAC, 60Hz
Sensing technology	Digital PIR & High Frequency Doppler
Maximum load	Electronic Ballast- 500/800VA@120/277V
Inrush current	Max. 80A, 16.7 ms @60Hz
Load switching	True Zero-cross Hybrid Switching
Dim control output	0-10V, ±5%, isolated, max. 25 mA
Detectable speed	1~10 ft./sec. (0.3~3 m/sec)
Mounting height	3~5 ft. (90~150 cm) above the floor
Ambient light level	7 levels, from dark to 24 Hour
Delay time setting	T/1'/3'/5'/10'/20'/30', T=10 sec. for testing
Op. humidity	Max. 95% RH, non-condensate
Op. temperature	14°F ~ 131°F (-10°C ~ 55°C)
Dimensions	4.13"H x 1.77"W x 1.65"D (w/mounting plate)

## ORDERING INFORMATION

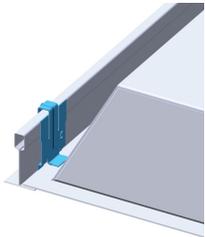
LDD-700SW – Line Voltage Dual-Tech Wall Switch Sensor, 120/277 VAC, 0-10V, White,

LDD-700SI – Line Voltage Dual-Tech Wall Switch Sensor, 120/277 VAC, 0-10V, Ivory

# Lay-In and Troffer Support Clip, Straight Lip – 515



- Provides a positive method for securing troffers, lay-ins, and air diffusers
- Complies with The National Electrical Code, Article 410.36 Means of Support
- Four clips per fixture required by code



Part Number	515
Material	Spring Steel
Finish	nVent CADDY Armour
Certifications	UL
Standard Packaging Quantity	100 pc
UPC	78285668515

No load rating, for positioning only.

UL, UR, cUL, cUR, cULus and cURus are registered certification marks of UL LLC.

#### WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.erico.com](http://www.erico.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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# OS-361

## Low Voltage Occupancy Sensor



### FEATURES

- Cutting edge quad element infrared sensor
- 24VAC/DC low voltage power supply
- Form C dry contact relay output
- Superior RFI and EMI immunity
- Temperature compensation circuitry
- Walk test and sensing status LED indicator
- Easy programmable ON and OFF delays
- High density detection performance
- Recess/surface mount available
- Pigtail wires for easy connection

### OVERVIEW

The OS-361 is a 360° ceiling mount low voltage occupancy sensor designed to signal the occupancy status for area lighting, or HVAC control, for energy efficient building management. The sensor is operated by 24V low voltage power supply from an IR-TEC power pack, or building management system, and provides a dry contact signal for control of the connected lighting or HVAC equipment.

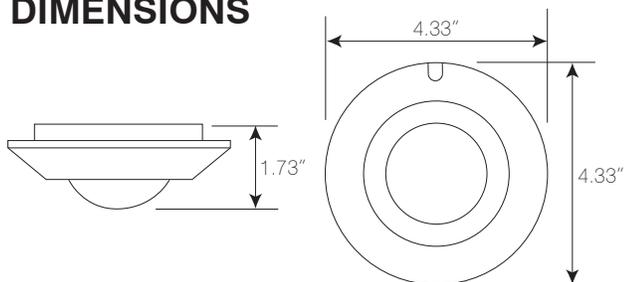
A cutting edge quad element pyroelectric infrared sensor and unique Fresnel lens are employed to provide superior occupancy sensing capability. When the sensor detects an occupant's presence, the form C relay contact output will be engaged until the OFF-delay time expires. If the sensor is applied to control the operation of HVAC systems, the ON-delay can be enabled to prohibit short-cycle restarting or unwanted load activation caused by walk-through traffics. Both ON and OFF delays can be easily selected through jumper pin positioning.

### APPLICATION

- Light Control
- HVAC Control
- Building Management

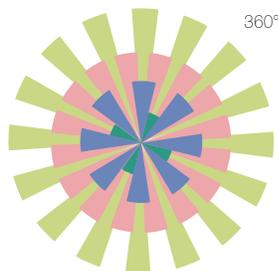
The OS-361 can be used to control area lighting, or HVAC, with an IR-TEC power pack or in conjunction with a building management system. Various control modes can be achieved by different wiring connections. Basic wiring diagrams are included. Consult with an IR-TEC team member if a more complex wiring diagram is required.

### DIMENSIONS



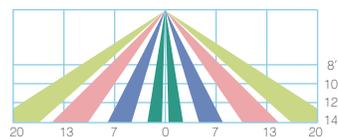
### DETECTION PATTERN

Top View



Mounting Height	8'	10'	12'	14'
Coverage (dia.)	20'	25'	30'	35'

Side View



### SENSOR OPERATION

The sensor will enter a warm-up period when power is first applied and then operate as described below.

#### A. Standby mode

The sensor will enter into standby mode after the warm-up period expires. The LED will flash if any jumper is not properly placed on the pin.

#### B. ON delay mode

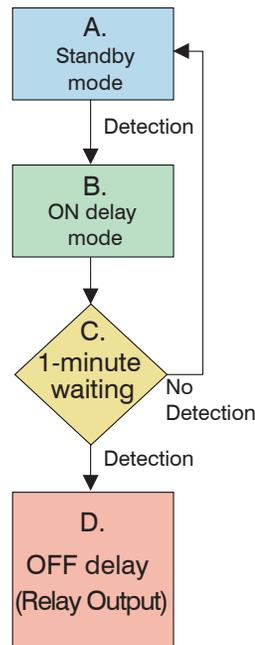
If the ON-delay is enabled, the sensor will enter this mode when it first detects the presence of an occupant. Any further motion detected during the ON-delay mode will NOT reset the timer.

#### C. 1-minute waiting

When the ON-delay expires, the sensor will enter into the 1-minute waiting period. If no motion is detected within this time period, the sensor will return to standby mode. If motion is detected within this time period, the sensor will engage the relay contact and enter into OFF-delay mode.

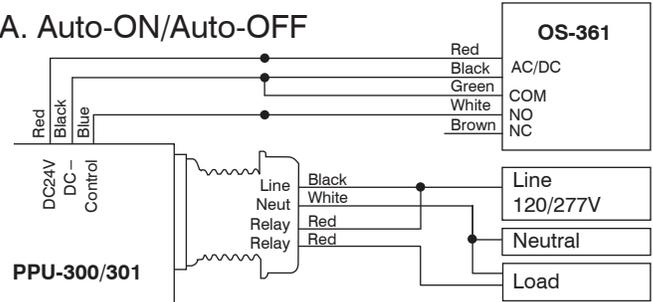
#### D. OFF delay mode

The OFF-delay is the time period that the sensor will hold its relay contact engaged. Every motion detected during this time period will reset the timer. The sensor will return to standby mode if no further motion is detected during this time period and the relay will be disengaged.

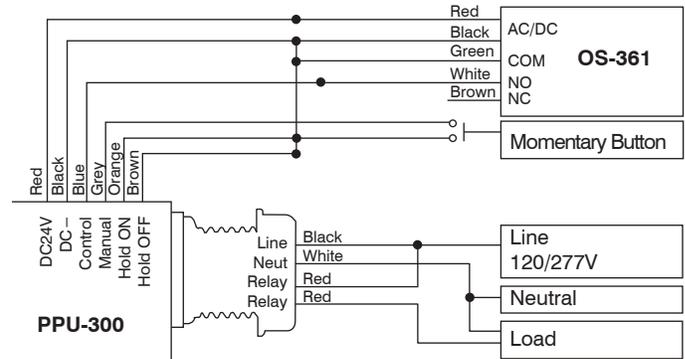


### WIRING DIAGRAM

#### A. Auto-ON/Auto-OFF



#### B. Manual-ON/Auto-OFF with PPU-300



NOTE: Each IR-TEC PPU-300/301 power pack can supply power for up to 6 OS-361 sensors. When more sensors are connected, multiple power packs may be required.

### SPECIFICATIONS

Power supply	24 ± 2VAC/DC
Current drain	5/16 mA @ 24 VDC, vacant/occupied
Infrared sensor	Quad element pyroelectric
Sensor output	Form C, 30VAC/DC, 0.2A max.
Detection range	Mounting height x 2.5
Mounting height	7.9 ft.~13.8 ft.(2.4~4.2m)
Delay time (ON)	0/10'/30'/1'/5'/10' selectable
Delay time (OFF)	10"/1'/5'/10'/20'/30' selectable
RFI immunity	Ave. 20V/m (10~1000MHz)
Humidity	Max. 95% RH
Temperature	-4°F~122°F (-20°C~50°C)
Dimensions	4.3" x 1.7" (110mm x 44mm)



### OVERVIEW

The PPU-301 is a power pack and controller designed for low voltage lighting control system. It not only supplies 24VDC power for the operation of multiple low voltage occupancy sensors, but also provides line voltage load switching in response to signals from the connected low voltage occupancy sensors or control devices. The unit can be attached to a junction box through a 1/2 inch knockout with the designed threaded nipple and locknut.

It may also be mounted into fixture cable trays or located inside an adjacent junction box for specific local code requirements.

The PPU-301 is an isolated class 2 switching mode power supply device for parallel sensor connection up to maximum 150mA capacity. With proper wiring connection, the load can be turned ON and OFF automatically based on inputs from occupancy sensors or other control devices.

Various control modes can be achieved with different wiring connections. Only basic wiring diagrams are illustrated. Consult with an IR-TEC team member if a more complex wiring diagram is required.

### FEATURES

- Class 2 switching mode power supply
- 120/277VAC universal voltage power
- 24VDC, 150mA power supply output
- DC and relay status LED indications
- Control up to 20A of load capacity
- Zero crossing relay switching circuitry
- Low voltage DC over current protection
- Versatile energy efficient load control

### APPLICATION

- Light Control
- HVAC Control

The PPU-301 can be applied to control lighting circuits, motors, self-contained air conditioners, VAV systems, fans and motorized damper controls. It is ideal for any application which requires line voltage switching with low voltage control input. By connecting this power pack with low voltage sensors, or other devices, various control configurations can be easily achieved.

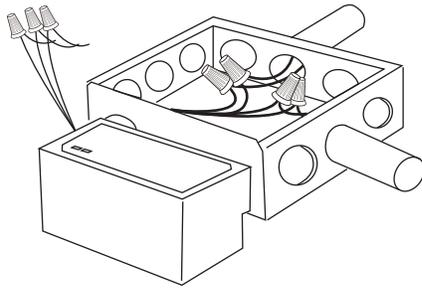
### SPECIFICATIONS

Power Supply	120/277VAC, 50/60Hz
DC Output	24V, 150mA max.
Control Input	Control, Active Low
Load Control	Ballast-20A, 120/277VAC
	Resistive-20A, 120/277VAC
	Motor-1 Hp, 120/240VAC
Humidity	95% RH max.
Temperature	-4°F ~ 122°F (-20°C ~ 50°C)
Dimensions	3"x1.8"x1.8" (75x45x45mm)

### INSTALLATION NOTES

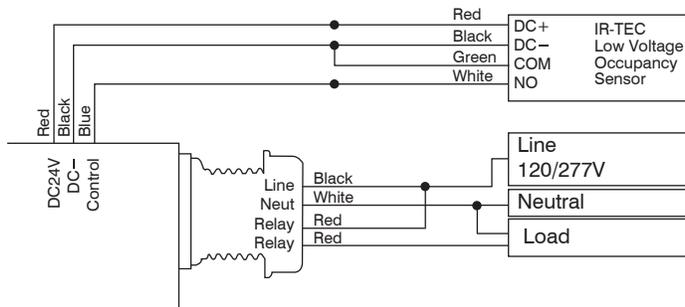
- The PPU-301 should be installed in accordance with local, state or national electrical codes.
- Most applications require UL-listed cables in proper gauge. Consult qualified electrician for correct wiring gauge.

### WIRING DIAGRAMS

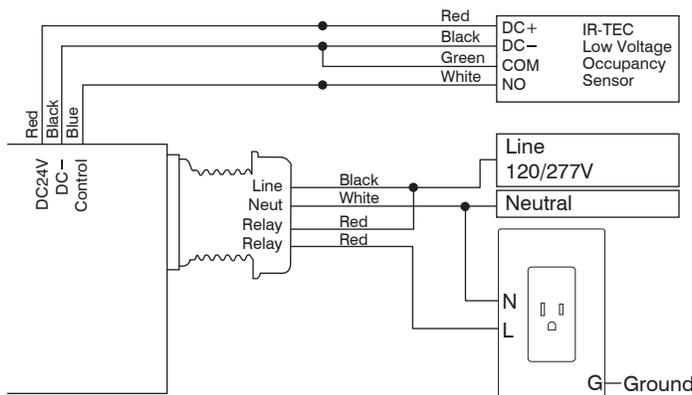


Line voltage wiring connection should be made inside of junction box.

#### Sensor control ON/OFF



#### Sensor control ON/OFF, Receptacle Control



Project Name	Type
Catalog #	Date

# VIENTO AREA SITE LED LARGE LUMINAIRE

VNT LED LARGE

Viento  
AREA LIGHT



**APPLICATIONS**

- Auto Dealership Sales Lots
- Parking Lots
- Educational/Business Campuses
- Parks & Recreation Areas
- Security Areas
- Mall & Retail Spaces

**APPROVALS**

- ETL listed.
- Complies with UL 1598 and CSA C22.2#250.0.0:2008
- Suitable for wet locations.
- 3G Vibration Rated for Bridge/Overpass Applications per ANSI C136.31-2010, Test Level 2.
- IP66 Optics and Housing.
- BAA Compliant.
- RoHS Compliant.
- Appropriate parts/test guidelines were performed by ATAL [www.ata-labs.com](http://www.ata-labs.com)
- Select models DLC Qualified. For a complete list of DLC Qualified products, please visit: [www.xtralight.com/dlc](http://www.xtralight.com/dlc) or [www.designlights.org/gpl](http://www.designlights.org/gpl)

**FEATURES**

- Outstanding photometric performance results in sites with excellent uniformity, optimal pole spacing and lower power density.
- Optics are completely sealed against moisture and environmental contaminants (IP66).
- Low profile architectural design offers a contemporary appearance with excellent light output.
- Controls ready luminaire for independent operation or remote management.
- Zero uplight (UO) is night sky friendly, reduces wasted light.
- Operating temperature: -40°C to +50°C (-40°F to +122°F)
- Custom colors available

**CONSTRUCTION**

- Housing: One-piece die-cast aluminum has integral heat sink fins to optimize thermal management through conductive and convective cooling.
- The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life.
- Housing and door are protected with a thermoset TGIC-polyester powder coat finish using a tightly controlled multi-stage process to a uniform 3 mil thickness (min). This finish provides superior protection from corrosion and maximum environmental durability.
- Powder coat finish in bronze, white or custom colors (consult factory).

**MOUNTING**

- Integral arm with key hole slot facilitates quick and easy installation.

- Nut plate eliminates loose hardware in the pole and reduces installation labor.

**OPTICS**

- Precision molded optics for superior uniformity, minimal light trespass and maximum pole spacing.
- Optical grade polymer is UV stabilized and impact resistant.
- Distributions: Type II, Type III, Type IV and Type V. Types II, III, and IV available rotated right or left 90°, factory installed.
- Best in class LEDs with 3000K, 4000K and 5000K CCT (min 70 CRI).
- Lumen Maintenance: >100,000hrs L70 @ 25°C (see page 3 for details).

**ELECTRICAL**

- Voltage: 120-277V 50/60Hz driver (standard); 347-480V 50/60Hz driver (optional).
- Class 2 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate.
- Surge Protection: 20kA standard.
- NEMA twist-lock receptacle available as an option.
- NOTE: Photocontrol or shorting cap required for operation (not included).
- Dimming: 0-10v dimmable driver available as an option.
- Passive Infrared (PIR) Photo/Motion Sensor option available.

**WARRANTY**

- Backed by XtraLight's industry leading 10-year warranty



# VIENTO AREA SITE LED LARGE LUMINAIRE

## VNT LED LARGE ORDER LOGIC

SAMPLE CATALOG NUMBER: VNTLEDM022003MNUIN420XXBZHO

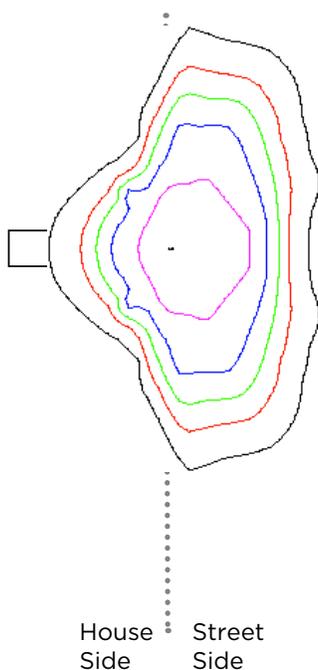
VNTLEDL												HO
MODULES	WATTS	OPTICS	ORIENTA-TION	DRIVER	CCT	SURGE	CONTROLS	MOUNT	COLOR	HIGH	OUTPUT	
03	231 <sup>1</sup> 300	2M Type II Medium 2S Type II Short 3M Type III Medium 4S Type IV Short 5M Type V Square Medium	N Normal (forward), R <sup>1</sup> Right L <sup>1</sup> Left	UIN Multi-Volt 120-277V (Std) DIM 120-277V, Dimming HVU 347-480V HVD <sup>2</sup> Dimma-ble 347-480V	3 3000K 4 4000K 5 5000K	20 120kV/20kA (Std)	X None (STD) 3 Twist-Lock 2 Receptacle, 3-pin 5 Twist-Lock 3,2 Receptacle, 5-pin 7 Twist-Lock 3,2 Receptacle, 7-pin B FSP- 3 211L3@20'MH /40'DIA D FSP- 3 211L7@40'MH /100'DIA	X None A Angle Mount	BZ Bronze WH White	HO		

1. Not available with 5M optics.
2. Photocontrol not included.
3. Requires 0-10V dimming driver [DIM] or [HVD] option.
4. Model 231 not available with [HVU] or [HVD].

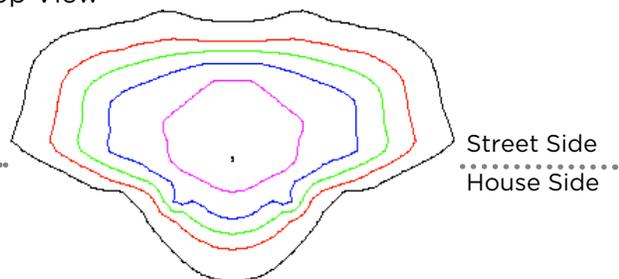
## PHOTOMETRIC DATA

### Rotated Asymmetric Optics (Type II, Type III & Type IV)

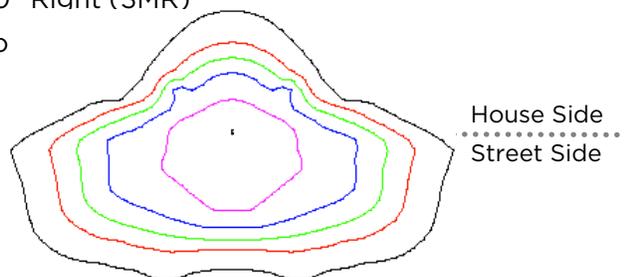
Normal (3MN)  
Top View



90° Left (3ML)  
Top View



90° Right (3MR)  
To

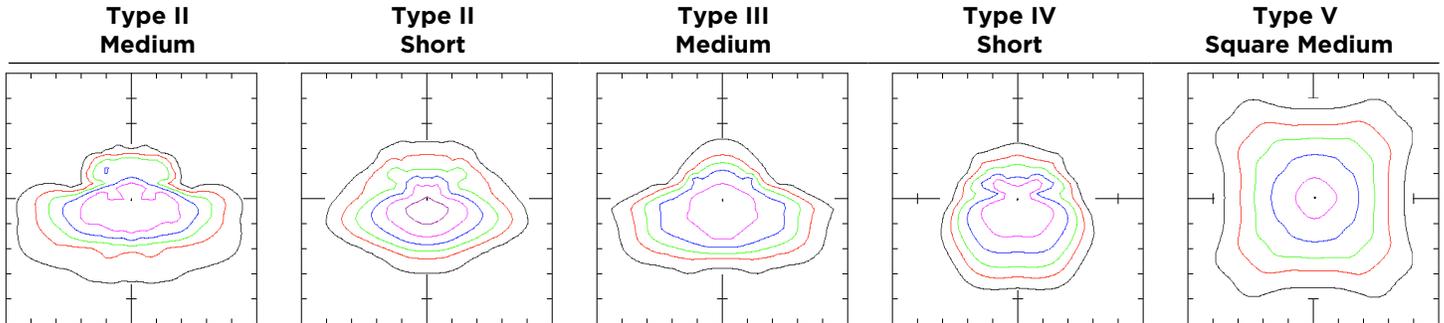


# VIENTO AREA SITE LED LARGE LUMINAIRE

## VNT LED LARGE IES DISTRIBUTION TYPES

### ISO Lines

Distance in Units of Mounting Height Values Based on 32 Foot Mounting Height.



### PHOTOMETRIC DATA

Type II Medium					Type II Short				
Model	CCT	Lumens	System Watts	Efficacy	Model	CCT	Lumens	System Watts	Lm/W
231	5000K	35177	246.1	143 LPW	231	5000K	35431	246.1	144 LPW
300	5000K	41340	323.4	128 LPW	300	5000K	41638	323.4	129 LPW

Type III Medium					Type IV Short				
Model	CCT	Lumens	System Watts	Efficacy	Model	CCT	Lumens	System Watts	Lm/W
231	5000K	34922	246.1	142 LPW	231	5000K	35570	246.1	145 LPW
300	5000K	41040	323.4	127 LPW	300	5000K	802	323.4	129 LPW

Type V Medium				
Model	CCT	Lumens	System Watts	Efficacy
231	5000K	35852	246.1	146 LPW
300	5000K	43505	323.7	134 LPW

Type V Optics 5000K. For more photometric information see page 3.

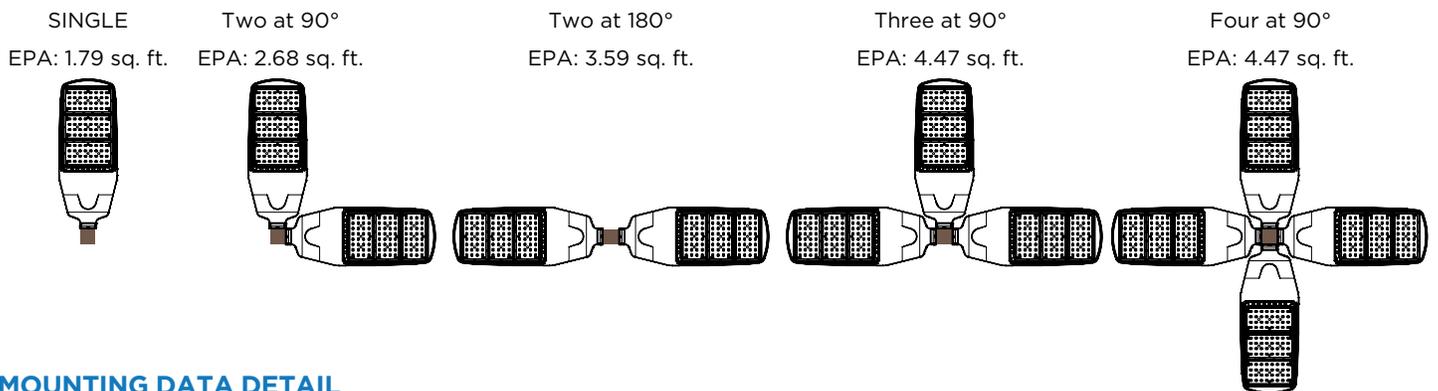
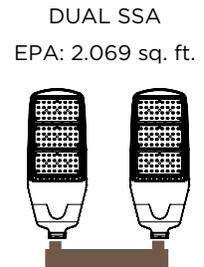
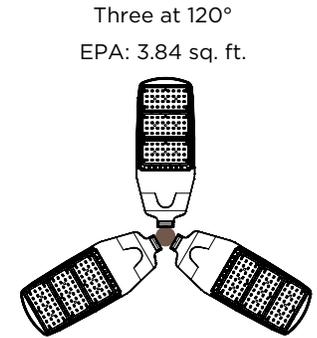
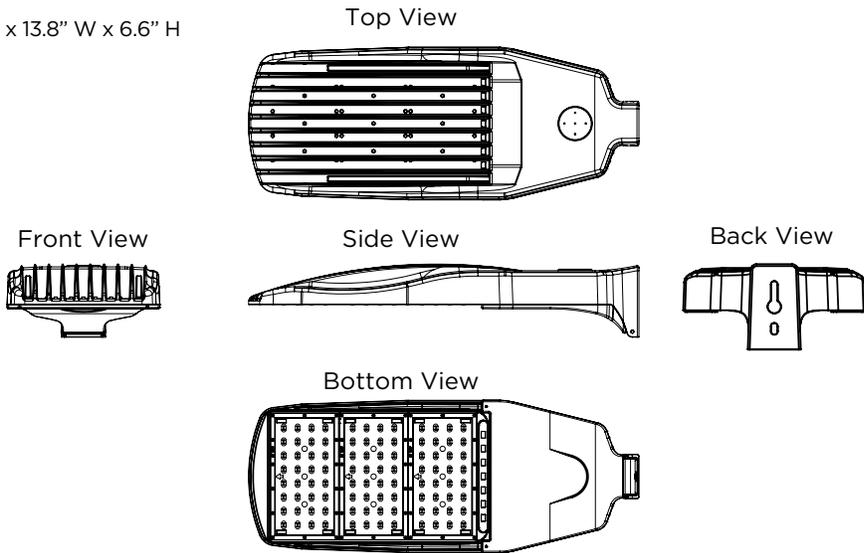
### LUMEN MULTIPLIER VS CCT

CCT	MULTIPLIER
4000K	98.0%
3000K	89.0%

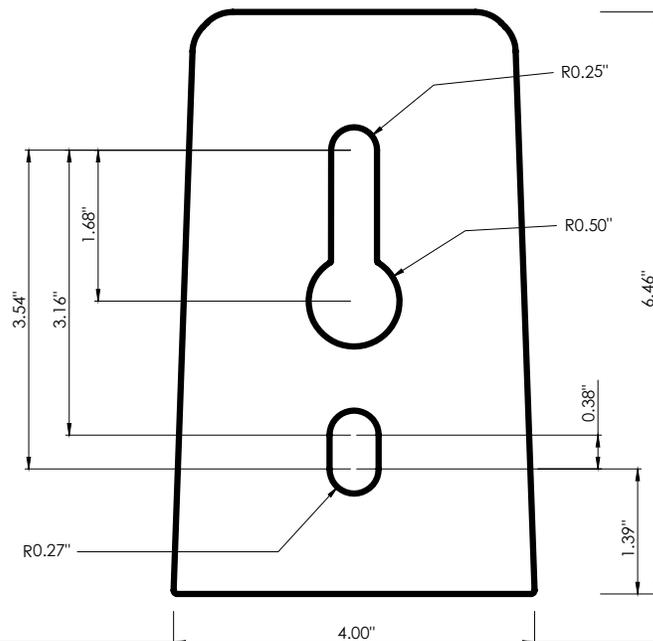
# VIENTO AREA SITE LED LARGE LUMINAIRE

## VNT LED LARGE DIMENSIONAL DATA

- Weight: 39 lbs
- 35.2" L x 13.8" W x 6.6" H



## MOUNTING DATA DETAIL



WORKING HARDER. LIGHTING SMARTER.®

# VIENTO AREA SITE LED LARGE LUMINAIRE

VNT LED LARGE  
LIGHTING CONTROLS



## LINE VOLTAGE HIGH/LOW/OFF PIR FIXTURE INTEGRATED OUT-DOOR PHOTO/MOTION SENSOR | FSP-211

Fully adjustable high and low dimmed light levels; optional dusk to dawn control

Designed for LED fixtures; rated for extreme temperatures and up to 200,000 on/off cycles

Hold off setpoint with automatic calibration option for convenience and added energy savings



Adjustable via handheld wireless configuration tool

IP66 rated with choice of lenses for wet and outdoor locations, and mounting heights from 8' to 40'

Adjustable time delay and cut off delay



### Description

The FSP-211 mounts in an outdoor lighting fixture and provides multi-level control based on motion and/or daylight contribution. It controls 0-10 VDC LED drivers or dimming ballasts, as well as non-dimming ballasts and, with an FSP-Lx Lens, is rated for wet and cold locations. All control parameters are adjustable via a wireless configuration tool capable of storing and transmitting sensor profiles.

### Operation

Typically, the sensor ramps lighting On to the selected High mode level when motion is detected and the ambient light level is below the hold off setpoint. After the sensor stops detecting movement and the time delay elapses, lights fade to the Low mode level. If there is no motion during the subsequent cut off time delay, the lights will turn Off. For dusk to dawn control, the integral photocell can switch the lights On and Off based on the ambient light level so that lighting remains on overnight even without motion detection.

### Wireless Handheld Configuration Tool

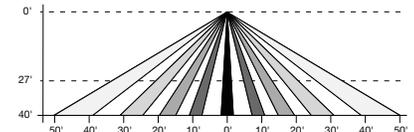
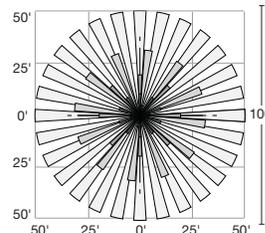
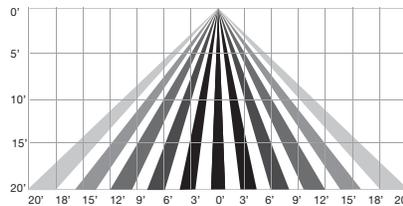
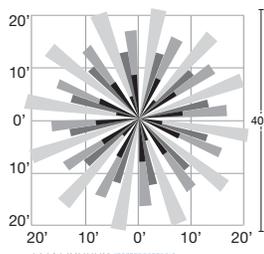
Initial setup and subsequent sensor adjustments are made using a handheld configuration tool (FSIR-100). This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cut off and more. The FSIR-100 is also used to initiate automatic calibration of the FSP-211 ambient light level setpoint. The setpoint is used to hold the controlled lighting off or at low level when there is sufficient daylight. The wireless tool stores up to six sensor parameter profiles to speed configuration of multiple sensors.

### Applications

The slim, low-profile FSP-211 is designed for installation inside the bottom of a light fixture body. When fully assembled and installed in an IP66-rated fixture, the sensor and FSP-Lx lenses are IP66 outdoor rated. The sensor is ideal for areas such as parking facilities, gas stations, pedestrian pathways and warehouses. A choice of four lenses ensures complete coverage for mounting heights up to 40'.

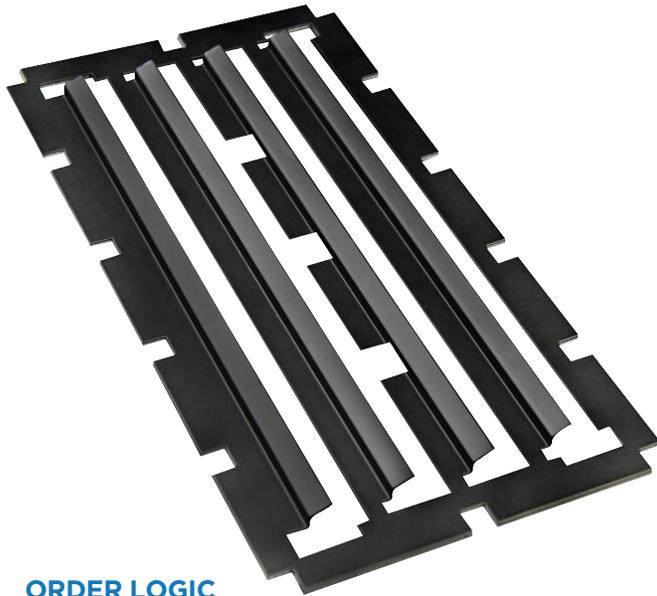
**OPTION B** FSP-211L3  
20' Mounting Height  
40' Diameter

**OPTION D** FSP-211L7  
40' Mounting Height  
100' Diameter



# VIENTO AREA SITE LED LARGE LUMINAIRE

## VNT LED LARGE ACCESSORIES



### HOUSE SIDE SHIELD OPTICS ACCESSORY

- See House Side Shield Spec Sheet for more information

### DIMENSIONS

- 11.38" L x 6.13" W x 0.4" H
- Weight: 0.45 lbs



Medium Viento Shown With House Side Shield

### ORDER LOGIC

VNT	-	HSS	-		-	
	<b>ACCESSORY</b>		<b>OPTICS</b>		<b>SIZE</b>	
	HSS	House Side Shield	N	Normal Optics	SM	Small
			LR	Rotated Optics	MED	Medium
					LRG	Large

## UNIVERSAL POLE MOUNT ADAPTOR MOUNTING ACCESSORY See spec sheet for more info



### ORDER LOGIC

VNT-UPM	-		-	
	<b>POLE</b>		<b>FINISH</b>	
	SQ	SQUARE	BZ	BRONZE
	RD	ROUND	WH	WHITE

### VIENTO ADJUSTABLE SLIP FITTER MOUNTING ACCESSORY

- (180° - 10° increments)
- EPA: 0.127 sq. ft. - 6.0 lbs
- See spec sheet for more info

### ORDER LOGIC

VNT-ASF	
	<b>COLOR</b>
	BZ Bronze
	WH White



**ACCESSORIES CONT.**

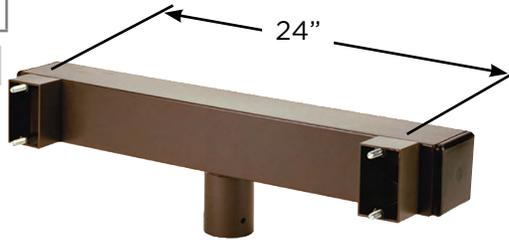
Standard in Bronze and White (custom colors available, consult factory).

**ORDER LOGIC**

VNT- 

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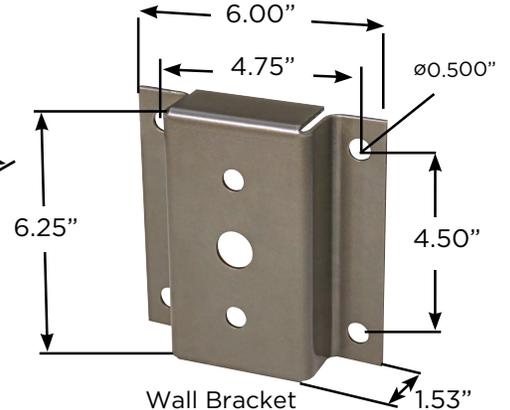
	MODEL	COLOR
<b>TWB</b>	Tenon Wall Bracket	<b>BZ</b> Bronze <b>WH</b> White
<b>SSA</b>	White	
<b>WB</b>	Wall Bracket	
<b>RPA</b>	Round Pole Adaptor	
<b>TMAS</b>	Tenon Mount Adaptor Square	
<b>TMAR</b>	Tenon Mount Adaptor Round	



Shoulder-to-Shoulder Adaptor

**VNT-SSA**

EPA: 0.90 sq. ft. - 27 lbs



Wall Bracket

**VNT-WB**

See spec sheet for more info



Tenon Wall Bracket  
Horizontal Mount

**VNT-TWB**

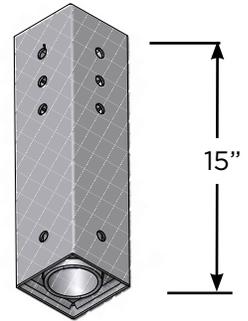
8" Square Plate - 2 3/8" OD



Round Pole Adaptor

**VNT-RPA**

3" to 5" Diameter  
EPA: 0.03 sq. ft. - 0.75 lbs.



Tenon Mount Adaptor - Square or Round

**VNT-TMAS 4"/5"/6" SQ**

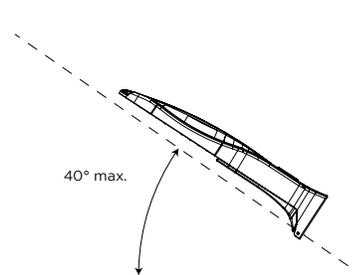
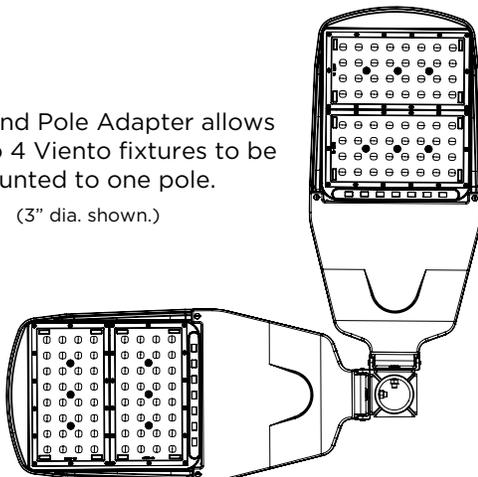
**VNT-TMAR 4"/5" DIA\***

EPA: 0.4 sq. ft. 10 - 16 lbs

\*Requires Round Pole Adaptor **VNT-RPA**

The Round Pole Adapter allows for up to 4 Viento fixtures to be mounted to one pole.

(3" dia. shown.)



NOTES:

1. Viento with ASF accessory needs to be ordered with "A" mounting code (see Ordering Guide for details)
2. Note: No more than 40° up angle.