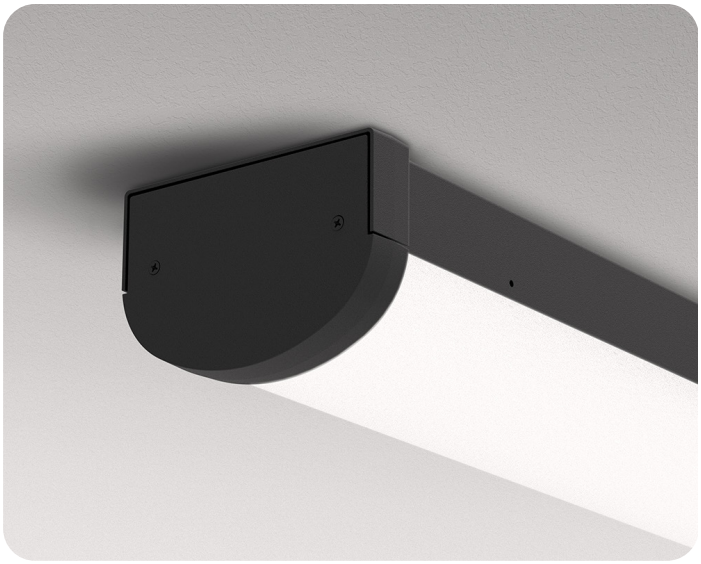
STARTEK
ARCHITECTURAL LIGHTING

| | | | |
|---|---|---|---|
| Rep/Agent | | Type | |
| Project | | | |
| Order No. | | Date | |

# **Starshield** Surface
## Direct



### Key Features

- Extruded aluminum housing
- Vandal resistant polycarbonate lens
- Soft diffuse direct lighting
- Continuous rows available by linking fixtures together
- Lumen output can be factory set
- 0-10V dimming to 10% is standard

5 Year Warranty | BABA Compliant | BAA Compliant | IP64 Rated | Intertek | RoHS Compliant

## Specifications

### Construction

- Continuous extruded 6063 T5 aluminum
- Mechanically attached aluminum end caps

### Dimensions

- Nominal dimensions: 3.7" x 5.5"
- Nominal thickness: 0.080"

### Finish

- Powder coated
- Colors: White, Black, Silver or Premium Finishes
- End Caps: Color-matched to housing
- Custom colors available. Consult factory for more information.

### Luminaire Length

- Standard individual lengths: 2', 3', 4', 5', 6', 7' and 8'
- Using internal joiners, sections can be joined to form longer, continuous rows.

### Source

- CCT options: 2700K, 3000K, 3500K, 4000K, or 5000K
- All within 3 MacAdam ellipses
- 90 CRI (R9 50 min) available

### Lensing

- 0.080" thick impact resistant outdoor (F1) rated polycarbonate lens
- Soft diffuse direct lighting

### Operating Temperature

- -40°C to 50°C (-40°F to 122°F)

### Lithium Ion Battery

- Provides up to 780 lm (6W) or up to 1100 lm (10W) for 90 minutes.
- Certifications: UL924 listed, Class 2 compliant, and Title 20 CEC (California Energy Commission) compliant

### Certifications

- Build America Buy America compliant
- Buy American Act compliant
- Intertek cETLus Listed
- DLC listed
- RoHS (Restriction of Hazardous Substances)
- JA8 compliant
- IP64 (Suitable for wet locations)
- IK10 Impact Protection Rating

### Packaging

- Sustainably manufactured outside cardboard box and biodegradable, protective poly-foam luminaire inserts.

### Warranty

- 5-year limited warranty.
- Visit our website for complete details: starteklightingamerica.com/images/pdf/warranty/Star_Series_Warranty.pdf


The information in this document is subject to change without notice.
Contact STARTEK for most up to date product details.

## Ordering Logic

STS-40-750-SD-35K-80-PW-SMCT-T-U-1C-EMB10

| Series | Length | Direct Output[1] | Direct Distribution | CCT | CRI |
|---|---|---|---|---|---|
| STS | | | SD | | |
| | **XX -** Run Length | **250 -** 250 LPF | **SD -** SatinIce Diffuse | **27K -** 2700K | **80 -** 80 CRI |
| | **SXX -** Symmetrical Run Length | **500 -** 500 LPF | | **30K -** 3000K | **90 -** 90 CRI (R9 50 min) |
| | | **750 -** 750 LPF | | **35K -** 3500K | |
| | | **1000 -** 1000 LPF | | **40K -** 4000K | |
| | | **XXX -** Custom LPF | | **50K -** 5000K | |

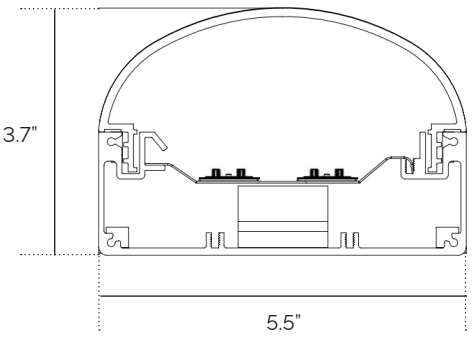
| Finish[2] | Mounting | Voltage | Circuiting | Emergency |
|---|---|---|---|---|
| | | U | | |
| **Standard Powder Coat** | **SMCT -** Ceiling Surface Mount (Top-Fed Power) | **U -** 120-277V | **1C -** Single Circuit | **BLANK -** None |
| **PW -** White | **SMCE -** Ceiling Surface Mount (End-Fed Power) | | **MC -** Multiple Circuits[5, 6] | **EC -** Emergency Circuit[9] |
| **PB -** Black | **SMWT -** Horizontal Wall Surface Mount (Top-Fed Power)[3] | | **DL -** Daylight Control[5, 7] | **#EMB6 -** 6W EM Battery[10, 11] |
| **PS -** Silver | **SMWE -** Horizontal Wall Surface Mount (End-Fed Power)[3] | | **NL -** Night Lights[5, 8] | **#EMB10 -** 10W EM Battery[10, 11] |
| **Premium** | **CM -** Corner Mount[4] | | | **#GTD -** Generator Transfer Device w/ ALCR[12] |
| **RALXXXX -** Powder Coat Gloss Finish | | | | |
| **PSFX -** Premium Stock Finish | | | | |
| **Custom Powder Coat** | | | | |
| **PO -** Powder Other | | | | |

| Options |
|---|
| **SRG -** Surge Protector |
| **MLR -** Large Range Motion Sensor[13] |
| **NLA -** Acuity nLight Air[14] |
| **TP -** Tamperproof Screws |
| **DL -** Damp Location |

**Ordering Notes**

1. 200 LPF min. output / 1500 LPF max. output.
2. See page 3 for standard and premium options.
3. Damp location only.
4. Must be ordered with Damp Location (DL) option.
5. Customer to specify number of zones and locations through factory submittal drawings.
6. Multiple low and line control zones.
7. Multiple low voltage control zones for daylight control.
8. Multiple unswitched wires for night light control zones.
9. Separate power, transfer devices provided by others.
10. '#' indicates number per run.
11. Provided by Iota/Bodine.
12. Iota EDS-DR Emergency Control Device
13. Motion sensor option removes the ability to dim.
14. Consult factory.

## Dimensions




## Lumen Packages

| Length | Lumens | Input Wattage | LPW |
|---|---|---|---|
| 4' | 3000 | 29 | 103 |
| 8' | 6000 | 56 | 107 |

**NOTE:** Based on 3500K CCT. Other CCT available.


The information in this document is subject to change without notice.
Contact STARTEK for most up to date product details.

# Finishes

## Standard

**PW:** White

**PB:** Black

**PS:** Silver

## Premium Stock



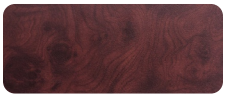
**PSF001:** Wood 1



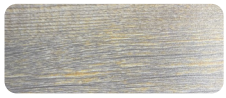
**PSF002:** Wood 2



**PSF003:** Wood 3



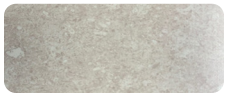
**PSF004:** Wood 4



**PSF005:** Wood 5



**PSF006:** Wood 6



**PSF007:** Stone 1



**PSF008:** Stone 2



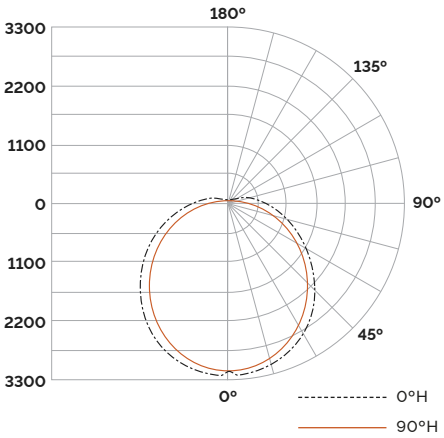
**PSF009:** Stone 3

**NOTE:** A minimal impact to lead times will apply to products specified with Premium Stock Finishes (PSF). It is not to be assumed that these finishes are stocked in our warehouse, but rather, are readily available to us for your project.

All other custom finishes (PO) will incur a set up fee and will add an extended lead time to your project.

# Performance

## STS-X-2750-SD (80+ CRI)




## Luminance Data (cd/sq.m)

| Angles | Avg. 0° | Avg. 45° | Avg. 90° |
|---|---|---|---|
| 45 | 16749 | 13957 | 13956 |
| 55 | 16009 | 12746 | 12872 |
| 65 | 14554 | 11329 | 11826 |
| 75 | 11661 | 9973 | 11061 |
| 85 | 5725 | 9125 | 10869 |

| CCT | Lumens | Wattage | LPW |
|---|---|---|---|
| 3000K | 11000 | 112 | 98 |
| | 16000 | 156 | 102 |
| 3500K | 11000 | 106 | 103 |
| | 16000 | 149 | 107 |
| 4000K | 11000 | 104 | 105 |
| | 16000 | 146 | 109 |
| 5000K | 11000 | 103 | 106 |
| | 16000 | 145 | 110 |

## Zonal Lumen Summary

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-30 | 2462.9 | 22.5% |
| 0-40 | 4055.6 | 37% |
| 0-60 | 7326.8 | 66.9% |
| 60-90 | 2860.7 | 26.1% |
| 70-100 | 1896.5 | 17.3% |
| 90-120 | 666.5 | 6.1% |
| 0-90 | 10187.4 | 93% |
| 90-180 | 769.3 | 7% |
| 0-180 | 10956.8 | 100% |

## Candela Table

| Vertical Angle | Horizontal Angle | | | | |
|---|---|---|---|---|---|
| | 0 | 22.5 | 45 | 67.5 | 90 |
| 0 | 3161 | 3161 | 3161 | 3161 | 3161 |
| 5 | 3122 | 3115 | 3140 | 3171 | 3210 |
| 10 | 3084 | 3072 | 3099 | 3132 | 3172 |
| 15 | 3019 | 3001 | 3030 | 3068 | 3108 |
| 20 | 2926 | 2906 | 2940 | 2981 | 3021 |
| 25 | 2805 | 2787 | 2829 | 2876 | 2916 |
| 30 | 2661 | 2645 | 2696 | 2750 | 2792 |
| 35 | 2495 | 2482 | 2542 | 2604 | 2646 |
| 40 | 2310 | 2300 | 2369 | 2441 | 2487 |
| 45 | 2113 | 2102 | 2181 | 2265 | 2312 |
| 50 | 1900 | 1888 | 1982 | 2076 | 2126 |
| 55 | 1666 | 1662 | 1771 | 1879 | 1930 |
| 60 | 1417 | 1424 | 1552 | 1678 | 1729 |
| 65 | 1148 | 1176 | 1331 | 1476 | 1533 |
| 70 | 868 | 929 | 1117 | 1283 | 1343 |
| 75 | 598 | 697 | 922 | 1103 | 1165 |
| 80 | 340 | 484 | 748 | 933 | 999 |
| 85 | 127 | 315 | 589 | 784 | 847 |
| 90 | 7 | 193 | 453 | 641 | 709 |

# Row Configurations

## XX (Run Length)

The standard construction of run lengths follows the logic of the table below. Consult factory for additional information. Run lengths always start with the longest fixture and receives the power feed.

**NOTE:** Fixtures in continuous runs are available in 6" increments. Consult factory for smaller increments.

| Total Length (Feet) | # of Sections | | | | | | |
|---|---|---|---|---|---|---|---|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 2 | 1 | | | | | | |
| 3 | | 1 | | | | | |
| 4 | | | 1 | | | | |
| 5 | | | | 1 | | | |
| 6 | | | | | 1 | | |
| 7 | | | | | | 1 | |
| 8 | | | | | | | 1 |
| 9 | | | 1 | 1 | | | |
| 10 | | | 1 | | 1 | | |
| 11 | | 1 | | | | | 1 |
| 12 | | | 1 | | | | 1 |
| 13 | | | | 1 | | | 1 |
| 14 | | | | | 1 | | 1 |
| 15 | | | | | | 1 | 1 |
| 16 | | | | | | | 2 |
| 17 | | | 1 | 1 | | | 1 |
| 18 | | | 1 | | 1 | | 1 |
| 19 | | 1 | | | | | 2 |
| 20 | | | 1 | | | | 2 |
| 21 | | | | 1 | | | 2 |
| 22 | | | | | 1 | | 2 |
| 23 | | | | | | 1 | 2 |
| 24 | | | | | | | 3 |
| 25 | | | 1 | 1 | | | 2 |
| 26 | | | 1 | | 1 | | 2 |
| 27 | | 1 | | | | | 3 |
| 28 | | | 1 | | | | 3 |
| 29 | | | | 1 | | | 3 |
| 30 | | | | | 1 | | 3 |
| 31 | | | | | | 1 | 3 |
| 32 | | | | | | | 4 |
| 33 | | | 1 | 1 | | | 3 |
| 34 | | | 1 | | 1 | | 3 |
| 35 | | 1 | | | | | 4 |
| 36 | | | 1 | | | | 4 |
| 37 | | | | 1 | | | 4 |
| 38 | | | | | 1 | | 4 |
| 39 | | | | | | 1 | 4 |
| 40 | | | | | | | 5 |

## SXX (Symmetric Run)

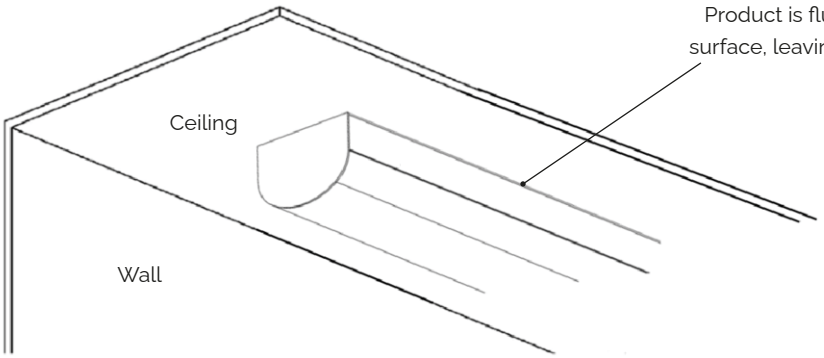
The construction of SXX (y') is to build with equal length fixtures. The xx indicates the run length. The y' indicates the fixture length used to create the run. Please indicate this on your P.O. when placing your order.

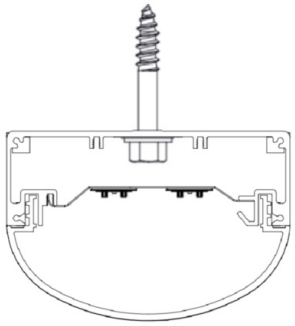
| | | | | | | |
|---|---|---|---|---|---|---|
| S12' (2') | 2' | 2' | 2' | 2' | 2' | 2' |
| S12' (3') | 3' | | 3' | | 3' | |
| S12' (4') | 4' | | 4' | | 4' | |
| S12' (6') | 6' | | | 6' | | |


The information in this document is subject to change without notice.
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# Mounting

## SME (Ceiling Surface Mount) & SMW (Wall Surface Mount)

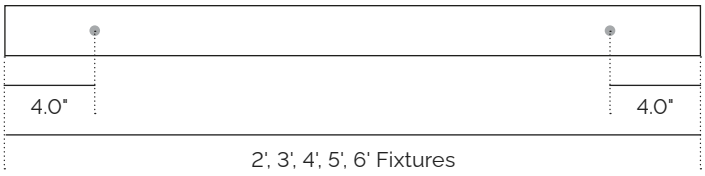


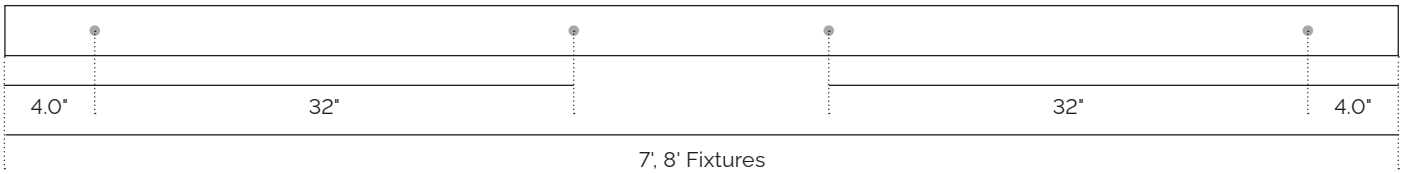



**NOTE:** Use proper mounting hardware (provided by others) to mount fixture to ceiling or wall.

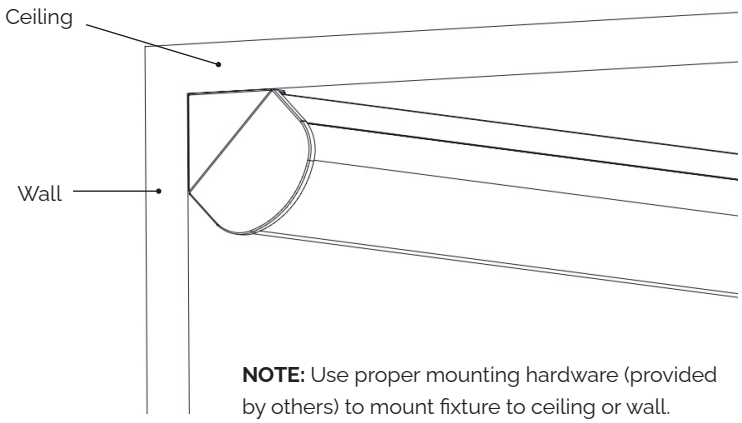
## SME & SMW Mounting Locations

Mounting locations (●) vary between SM(T) option and others due to length and power location. Views below show top of fixtures.




## CM (Corner Mount)

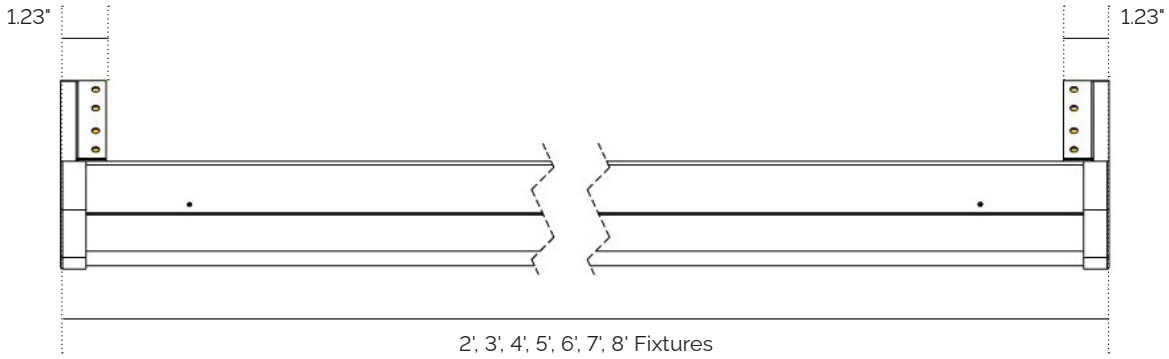



**NOTE:** Use proper mounting hardware (provided by others) to mount fixture to ceiling or wall.

# Mounting

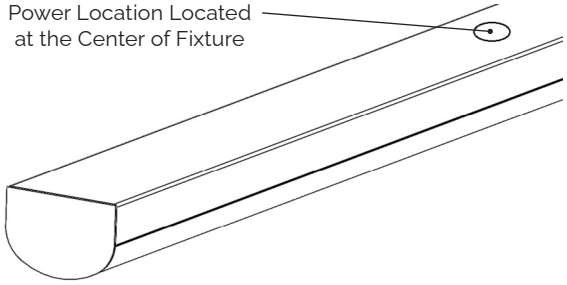
## CM Mounting Locations

Mounting locations (●) vary due to length. Please see below for mounting locations measured from the end of the fixture,

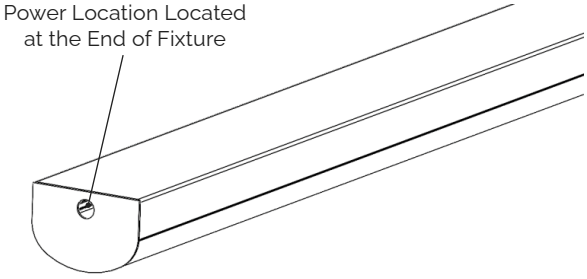



# Power Locations

## Top-Fed Power

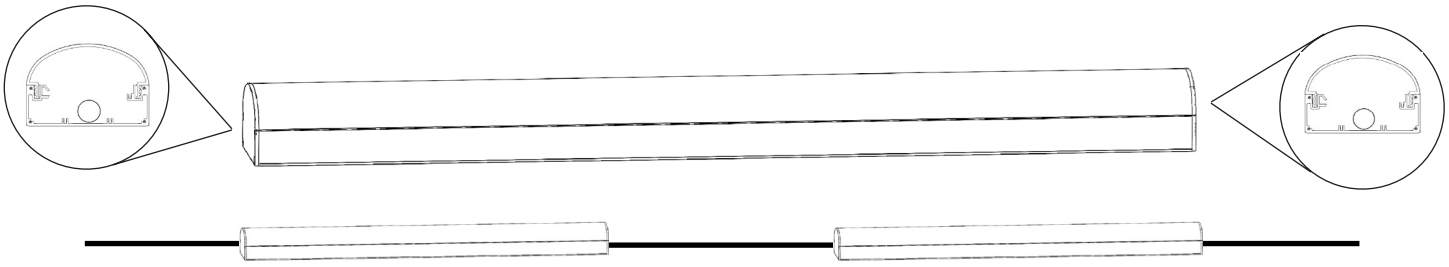



## End-Fed Power




## CFT (Conduit Feed Through)

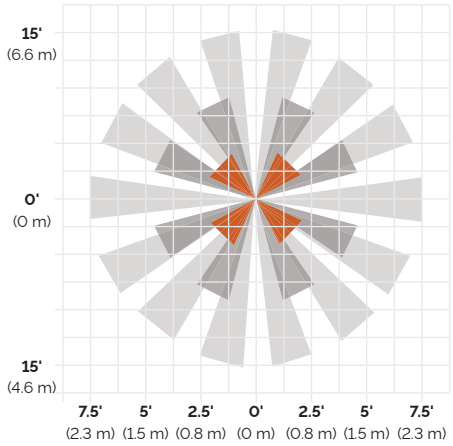
If the CFT=Conduit Feed (Through) is specified, the fixture will be manufactured with an additional end plate that has an opening for a 1/2" connector on the opposite end of the fixture. Thru wires will be provided from one end of the fixture to the other. Conduit can then be run to another fixture.

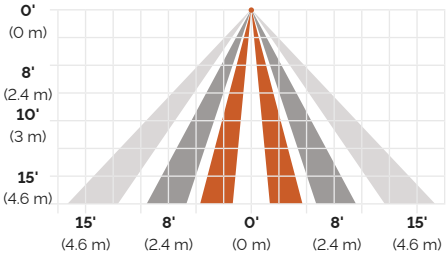


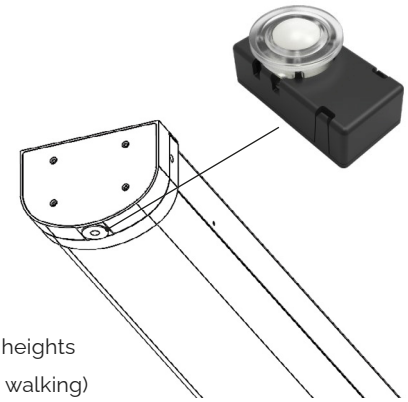
# Controls

## Sensor

VERTEX Fixture Integrated Occupancy Sensor with Dimming Photocell. Ideal for standalone or network lighting control applications. Its ultra-small footprint enables seamless integration into an indoor or outdoor luminaires without disrupting aesthetics or requiring additional mounting space. Its versatility allows for mounting at various heights up to 15ft detecting major and minor motion movement.



## Motion Sensor Large Range

- Optimized full coverage from 8 ft - 15 ft mounting heights
- Reliable detection of large motion (e.g. pedestrian walking)
- 1.3x's mounting height equals approximate detection range