STARTEK
ARCHITECTURAL LIGHTING

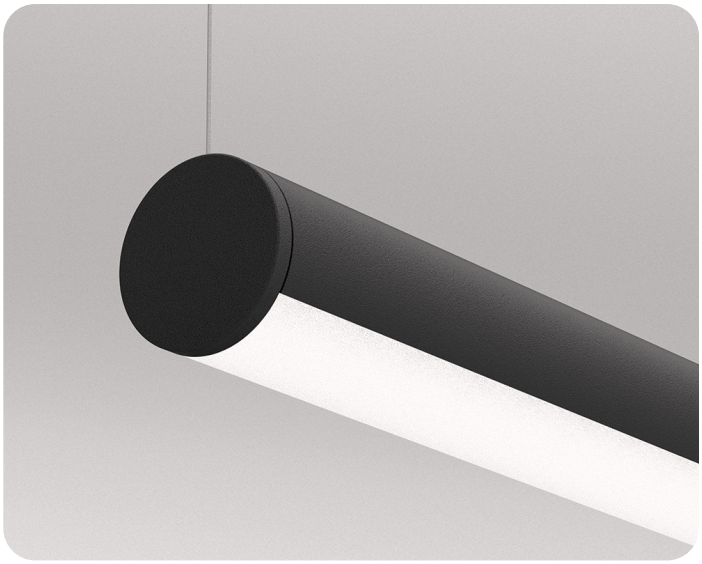
| | | | |
|---|---|---|---|
| Rep/Agent | | Type | |
| Project | | | |
| Order No. | | Date | |

# **Optimo** Suspended

## Direct / Indirect

### Key Features

- Extruded aluminum single piece housing
- Soft diffuse direct lighting
- Any direct and indirect light combinations can be factory set
- 0-10V dimming to 1% is standard
- Efficacy up to 140 lm/W



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

## Specifications

### Construction

- Continuous extruded 6063 T5 aluminum
- Mechanically attached end caps with no exposed fasteners enhance architectural aesthetic and prevent light leak.

### Dimensions

- Nominal dimensions: 3.2" x 3.2"

### 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', 4', 6' or 8'
- Fixture and run lengths are available in $\frac{1}{16}$" increments.
- 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

- 0.060" thick impact resistant acrylic 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 1300 lm (10W) for 90 minutes.
- Certifications: UL924 listed, Class 2 compliant, and Title 20 CEC (California Energy Commission) compliant

### Dimming (Integral) Driver

- Constant current programmable LED driver
- Output current: 0-10V, dim to 1% (UL listed, Class P)
- Ring wave surge protection: 2.5KV ring
- Power factor: >0.90

### Generator Transfer Device

- Luminaires with GTD option provides a UL924 shunt relay to bypass normal power, switches, and 0–10V dimming.

### Certifications

- Build America Buy America compliant
- Buy American Act compliant
- Intertek cETLus Listed
- RoHS (Restriction of Hazardous Substances)
- JA8 compliant
- Suitable for dry and damp locations

### Packaging

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

### Warranty

- 5-year limited warranty.


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## Ordering Logic

OPTDI-40-500-750-SD-BW-35K-80-PW-ACW05-U-1C-1EMB10

| Series | Length | Direct Output[1] | Indirect Output[1] | Direct Distribution | Indirect Distribution |
|---|---|---|---|---|---|
| OPTDI | | | | SD | |
| | **XX -** Run Length | **250 -** 250 LPF | **250 -** 250 LPF | **SD -** SatinIce Diffuse | **CL -** Clear Lens |
| | **SXX -** Symmetrical Run Length | **500 -** 500 LPF | **500 -** 500 LPF | | **BW -** Batwing |
| | | **750 -** 750 LPF | **750 -** 750 LPF | | |
| | | **1000 -** 1000 LPF | **1000 -** 1000 LPF | | |
| | | **XXX -** Custom LPF | **XXX -** Custom LPF | | |

| CCT | CRI | Finish[3] | Mounting | | Voltage |
|---|---|---|---|---|---|
| | | | | | |
| **27K -** 2700K | **80 -** 80 CRI | **Standard Powder Coat** | **Cables w/ Canopy Kits** | **Stem w/ Canopy Kits** | **U -** 120-277V |
| **30K -** 3000K | **90 -** 90 CRI (R9 50 min) | **PW -** White | **ACW05 -** 5' White Cord | **STEMWXX -** XX" White Stem | **C -** 347V |
| **35K -** 3500K | | **PB -** Black | **ACW10 -** 10' White Cord | **STEMBXX -** XX" Black Stem | |
| **40K -** 4000K | | **PS -** Silver | **ACB05 -** 5' Black Cord | **RSTEMWXX -** XX" White Rotational Stem | |
| **50K -** 5000K | | **Premium** | **ACB10 -** 10' Black Cord | **RSTEMBXX -** XX" Black Rotational Stem | |
| **TW -** Tunable White[2] (2700K-6500K) | | **RALXXXX -** Powder Coat Gloss Finish | | | |
| | | **PSFX -** Premium Stock Finish | | | |
| | | **Custom Powder Coat** | | | |
| | | **PO -** Powder Other | | | |

| Circuiting | Emergency | Options | |
|---|---|---|---|
| | | | |
| **1C -** Single Circuit | **BLANK -** None | **Specialty Drivers[14]** | **Sensors** |
| **2C -** Separate D/I Circuits[4] | **EC -** Emergency Circuit[9] | **DT1 -** eldoLED EcoDrive Dim to 1% (0-10V) | **DMXX% -** Daylight/Motion Sensor (XX%=% Min. Dimming) |
| **MC -** Multiple Circuits[5, 6] | **#EMB6 -** 6W EM Battery[10, 11] | **DTZ -** eldoLED SoloDrive Dim to 0.1% (0-10V) | **AWNR -** Lutron Athena Wireless Node (RF Only)[17] |
| **DL -** Daylight Control[5, 7] | **#EMB10 -** 10W EM Battery[10, 11] | **PSRD -** Philips Sensor Ready (DALI) Driver | |
| **NL -** Night Lights[5, 8] | **#FCEMB10 -** 10W EM Battery[10, 12] | **LDE1 -** Lutron Hi-Lume EcoSystem LED Driver w/ Soft-on, Fade-to-Black | |
| | **#FCEMB14 -** 14W EM Battery[10, 12] | **TW-A -** Tunable White, 0-10V[15] | |
| | **#GTD -** Generator Transfer Device w/ ALCR[13] | **TW-EL -** eldoLED DUALdrive Tunable White (DALI)[15] | |
| | | **LD2 -** Lutron DALI 2 Digital Tunable White Driver w/ 1% Dimming[16] | |

**Ordering Notes**

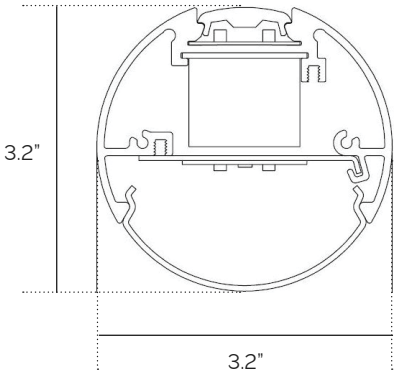
1. 200 LPF min. output / 1500 LPF max. output.
2. Tunable White Driver must be specified in options.
3. See page 3 for standard and premium options.
4. Separate D/I switched power and dimming (shared neutral).
5. Customer to specify number of zones and locations through factory submittal drawings.
6. 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. EM battery is factory choice.
13. Iota EDS-DR Emergency Control Device
14. Standard driver is 0-10V, dim to 1% output current.
15. 75 Watt Max. Dual driver required for higher fixture wattage.
16. 50 Watt Max. Dual driver required for higher fixture wattage.
17. Athena sensor matches finish for white and black fixtures.


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# Optimo Suspended

Direct / Indirect

## Dimensions




## Lumen Packages

| Length | Lumens | Input Wattage | LPW |
|---|---|---|---|
| 4' | 4400 | 34 | 129 |
| 8' | 8800 | 66 | 134 |

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

## Finishes

### Standard



**PW:** White



**PB:** Black



**PS:** Silver

### Premium Stock



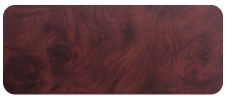
**PSF001:** Wood 1



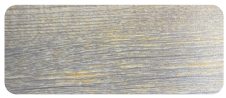
**PSF002:** Wood 2



**PSF003:** Wood 3



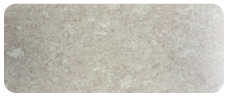
**PSF004:** Wood 4



**PSF005:** Wood 5



**PSF006:** Wood 6



**PSF007:** Stone 1



**PSF008:** Stone 2

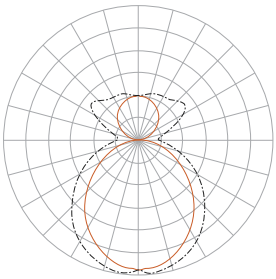


**PSF009:** Stone 3

**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.

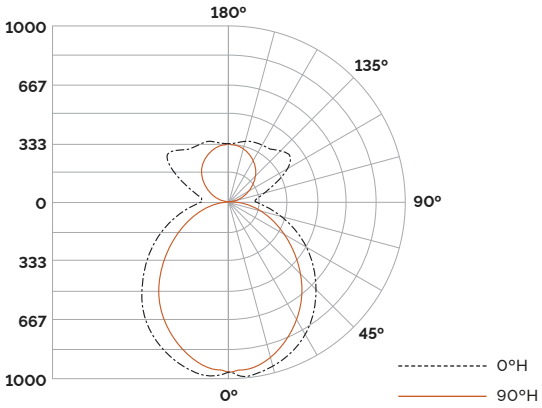
## Distribution



**Indirect:** Batwing (BW)
**Direct:** SatinIce Diffuse (SD)

# Performance

## OPTDI-X-750-350-SD-BW (80+ CRI)




| CCT | Length | Lumens | Wattage | LPW |
|---|---|---|---|---|
| 3000K | 4' | 4400 | 35 | 125 |
| | 8' | 8800 | 68 | 130 |
| 3500K | 4' | 4400 | 34 | 129 |
| | 8' | 8800 | 66 | 134 |
| 4000K | 4' | 4400 | 33 | 133 |
| | 8' | 8800 | 64 | 138 |
| 5000K | 4' | 4400 | 32 | 137 |
| | 8' | 8800 | 62 | 142 |

Continue to Next Page


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# 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.

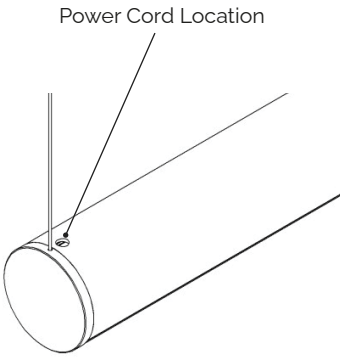
| | | | | | | |
|---|---|---|---|---|---|---|
| S12' (2') | 2' | 2' | 2' | 2' | 2' | 2' |
| S12' (3') | 3' | | 3' | | 3' | |
| S12' (4') | 4' | | 4' | | 4' | |
| S12' (6') | 6' | | | 6' | | |

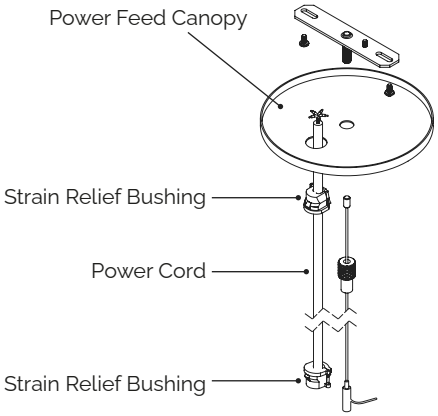

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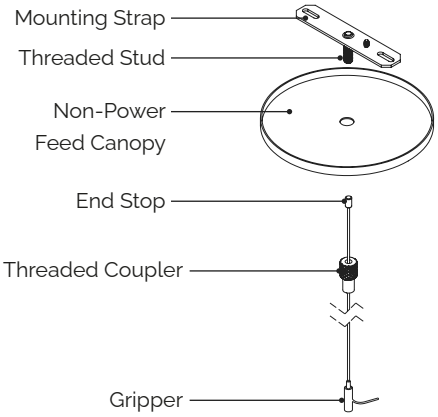
# Mounting

## ACXXX (Aircraft Cable with Canopy)

Drywall, Solid, Tile (On-Grid), and Tile (Off-Grid)



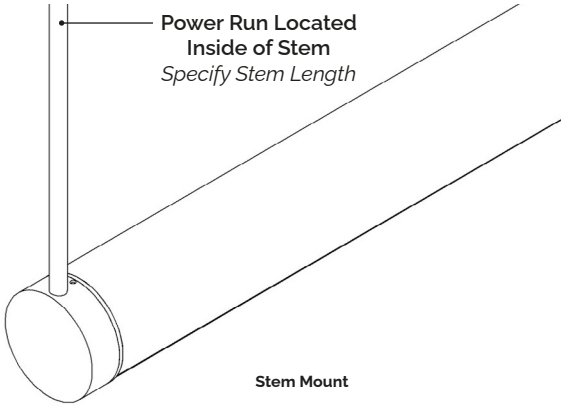



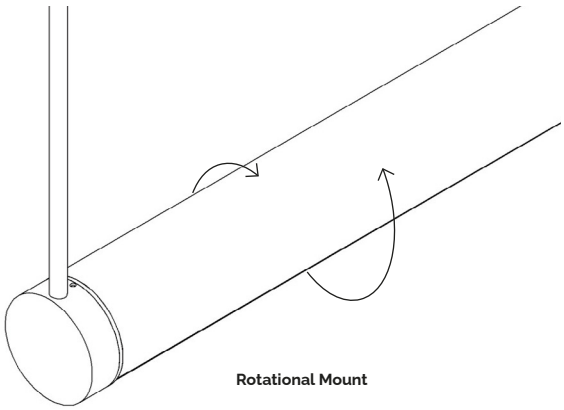

## STEMXX (Stem Mount) & RSTEMXX (Rotational Stem Mount with Canopy)

Please specify stem length when ordering. See "Stem Lengths" table for available options.

| Stem Length<br>Specify stem length in 0.75" shorter when measured from ceiling to fixture. | |
|---|---|
| STEMXX | Ceiling to Fixture |
| 6" | 5.25" |
| 8" | 7.25" |
| 9" | 8.25" |
| 12" | 11.25" |
| 15" | 14.25" |
| 18" | 17.25" |
| 21" | 20.25" |
| 24" | 23.25" |
| 27" | 26.25" |
| 30" | 29.25" |
| 36" | 35.25" |
| 42" | 41.25" |
| 48" | 47.25" |
| 54" | 53.25" |
| 60" | 59.25" |
| 66" | 65.25" |
| 72" | 71.25" |
| 78" | 77.25" |
| 84" | 83.25" |
| 90" | 89.25" |
| 96" | 95.25" |




**Stem Mount**



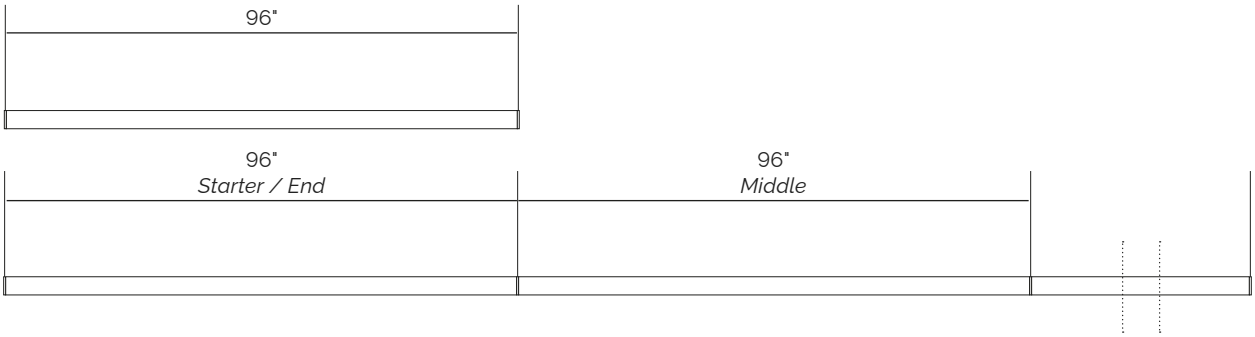
**Rotational Mount**

# Mounting Locations

Fixture mounts are located at the end of each the fixture. For continuous row applications, fixtures have unique mounts at the beginning and the end of the run and share a mount at the joint. Pendant and Stem type mounts have consistent mounting centers between individual fixtures. Rotational type mount option will result In varying mounting centers.

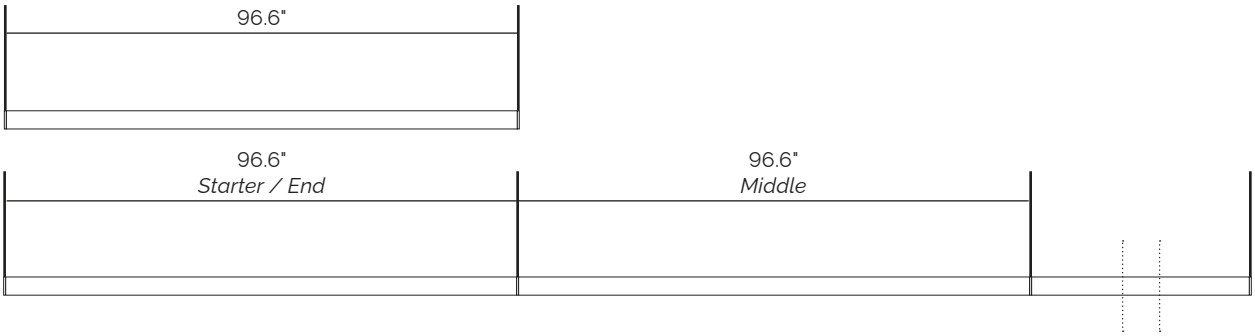
## ACXXX (Aircraft Cable with Canopy) - Pendant

Example: 8' fixtures shown for reference




## STEMXX (Stem Mount) - Rigid

Example: 8' fixtures shown for reference




## RSTEMXX (Rotational Stem Mount with Canopy) - 360° Rotation

Example: 8' fixtures shown for reference

