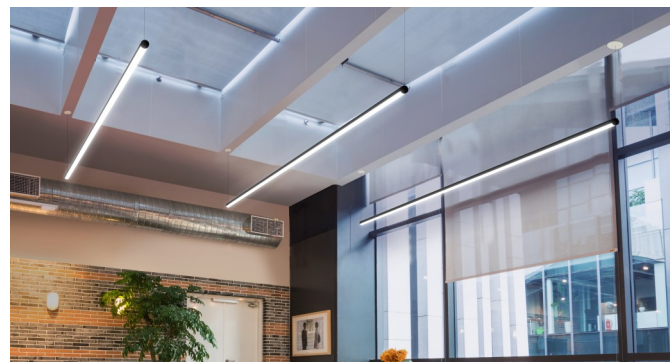
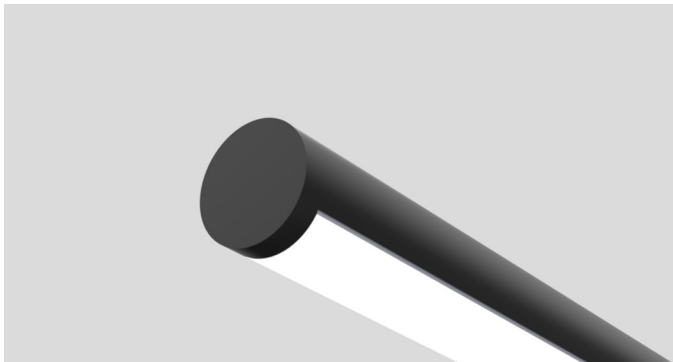
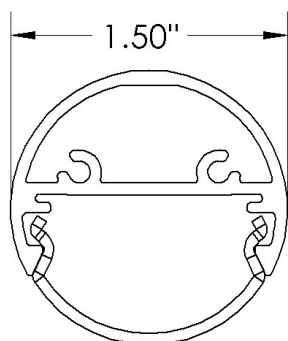


Type:	
Project:	
REP/Agent:	
Order #:	

## MICRO OPTIMO DIRECT



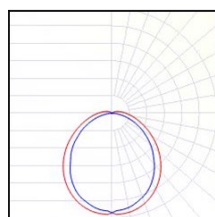
### DIMENSIONS



### FEATURES

- ★ Soft diffused direct illumination in a sleek modern minimalist style.
- ★ Thermally efficient extruded aluminum single piece housing
- ★ Standard 2', 4', 6' and 8' units, or continuous rows
- ★ Toolless height adjustment at the ceiling
- ★ Textured powder coat finishes available in white, black, and silver
- ★ Premium finishes also available
- ★ Approved for dry and damp locations
- ★ 0-10v dimming is standard
- ★ Dim to 1% of output current is standard
- ★ Three power choices of Hyperdrive remote power system
- ★ 90 CRI (R9 50 min) available
- ★ 5 year system warranty
- ★ Class 2 input for luminaire

### DISTRIBUTION



SD = Satin Ice Diffuse

### LUMENS

Lumens can be specified within the ranges shown below

MODEL	LUMENS	INPUT WATTS	Lm/W
MOPTD-4-1000 SD-35K	4,000	38	104
MOPTD-8-1000-SD-35K	8,000	74	107

# MICRO OPTIMO DIRECT

Type:	
Project:	
REP/Agent:	
Order #:	

MOPTD					
SERIES	LENGTH	LUMENS PER FOOT	DISTRIBUTION	CCT	CRI
MOPTD	XX= Run Length SXX= Symmetric Run Length	350= 350LPF 500= 500LPF 750= 750LPF 1000= 1000LPF XX= Custom LPF <small>See Max Lumen Output on pg. 1</small>	SD= SatinIce Diffuse	27K= 2700K 30K= 3000K 35K= 3500K 40K= 4000K 50K= 5000K TW= Tunable White <sup>1,2</sup>	80= 80 90= 90 (R9 50min)

FINISH	MOUNTING (See Page 6-7 for Options)
<p><b>STANDARD</b></p> <p>PW= Powder Coat White PB= Powder Coat Black PS= Powder Coat Silver</p> <p><b>PREMIUM</b></p> <p>RALxxxx= Powder Coat RALxxxx PSFx= Premium Stock Finish</p> <p><b>CUSTOM</b></p> <p>PO= Powder Coat Other*</p> <p>See pg. 10 for standard and premium options</p>	<p><b>POWERED CANOPY</b> (Driver included, 120-277V)<sup>3</sup></p> <p>PCW= Powered Canopy White PCB= Powered Canopy Black</p> <p><b>CANOPY RECESSED</b></p> <p>CRW= Canopy Recessed White CRB= Canopy Recessed Black</p> <p><b>CANOPY T-GRID</b></p> <p>CTW= Canopy T-Grid White CTB= Canopy T-Grid Black</p> <p><b>CANOPY SURFACE</b></p> <p>CSW= Canopy Surface White CSB= Canopy Surface Black</p> <p><b>STEM MOUNTS</b></p> <p>STEMWxx= Stem Mount White xx" STEMBxx= Stem Mount Black xx" RSTEMWxx= Rotational Stem Mount White xx" RSTEMBxx= Rotational Stem Mount Black xx"</p> <p><b>WALL MOUNTS</b></p> <p>WM= Wall Mount WMR= Wall Mount Rotational</p> <p><b>*Items in grey box require Hyperdrive Remote Driver*</b></p>

REMOTE OPTIONS	HYPERDRIVE CIRCUIT
<p>Ex= EM Battery designated fixture (Ordered with Hyperdrive)</p> <p>Replace X with battery Qty.</p> <p>Not available with Powered Canopy, Consult factory</p>	<p>HDxx= HyperDrive Circuit</p> <p>Not required for the Powered Canopy configuration</p>

EXAMPLE: MOPTD-4-750-SD-35K-80-PW-CSW-HD01

<sup>1</sup> Requires Hyperdrive Remote Driver

<sup>2</sup> Tunable White Driver must be specified

<sup>3</sup> 50W Max. Dual driver required

Type:	
Project:	
REP/Agent:	
Order #:	

# HYPER DRIVE REMOTE POWER SYSTEM

HYPD				
SERIES	SIZE / DRIVER QTY	EMERGENCY BATTERY (OPTIONAL)	MOUNTING	FINISH
HYPD	<p>Replace x with driver quantity</p> <p><b>Sx</b>= Small– up to two drivers (190W)</p> <p><b>Mx</b>= Medium– up to four drivers (300W)</p> <p><b>Lx</b>= Large– up to eight drivers (600W)</p>	<p>Replace # with battery quantity</p> <p><b>NB</b>= No Emergency Battery</p> <p><b>#EMB6</b>= 6W EM Battery (Bodine)</p> <p><b>#EMB10</b>= 10W EM Battery (Bodine)</p> <p><b>#FCEMB10</b>= 10W EM Battery (Factory Choice)</p> <p><i>Note: Batteries are only available in Medium and Large enclosures. Each emergency battery reduces the driver quantity of the Hyper Drive.</i></p>	<p><b>S</b>= Surface/ Strut</p> <p><b>R</b>= Recessed</p>	<p><b>STANDARD</b></p> <p><b>PW</b>= Powder Coat White</p> <p><b>PB</b>= Powder Coat Black</p> <p><b>PREMIUM</b></p> <p><b>RALxxxx</b>= Power Coat</p> <p>RAL xxxx (Gloss Finish)</p>

VOLTAGE	OPTIONS	HYPERDRIVE CIRCUIT
U= 120-277	<p><b>SPECIALTY DRIVERS</b> (Standard driver is 0-10V, dim to 1% output current)</p> <p><b>DT1</b>= eldoLED EcoDrive Dim to 1% (0-10V)</p> <p><b>DTZ</b>= eldoLED SoloDrive Dim to 0.1% (0-10V)</p> <p><b>PSRD</b>= Signify Sensor Ready (DALI) Driver</p> <p><b>LDE1</b>= Lutron Hi-Lume EcoSystem LED driver w/ Soft-on, Fade-to-Black</p> <p><b>TW-A</b>= Tunable White, 0-10v</p> <p><b>TW-EL</b>= eldoLED DUALdrive Tunable White (DALI)</p> <p>Consult factory for additional driver options</p> <p><i>Note: Specialty driver options are not available with the small power-box option, with the exception of TW-A</i></p> <p><b>SENSORS</b></p> <p>Consult factory for options</p> <p><b>OTHERS</b></p> <p><b>CP</b>= Chicago Plenum (CCEA)</p>	<p><b>HDxx</b>= HyperDrive Circuit</p>

EXAMPLE: HYPD-L8-R-PW-DTZ-HD01

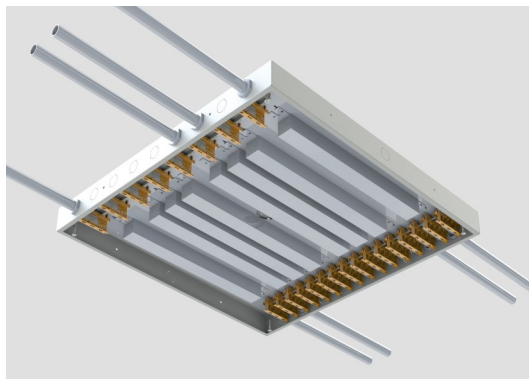
## NOTES & LIMITATIONS

One driver is required per direct only fixture (8' max length)

Consult factory for custom configurations and drivers not listed.

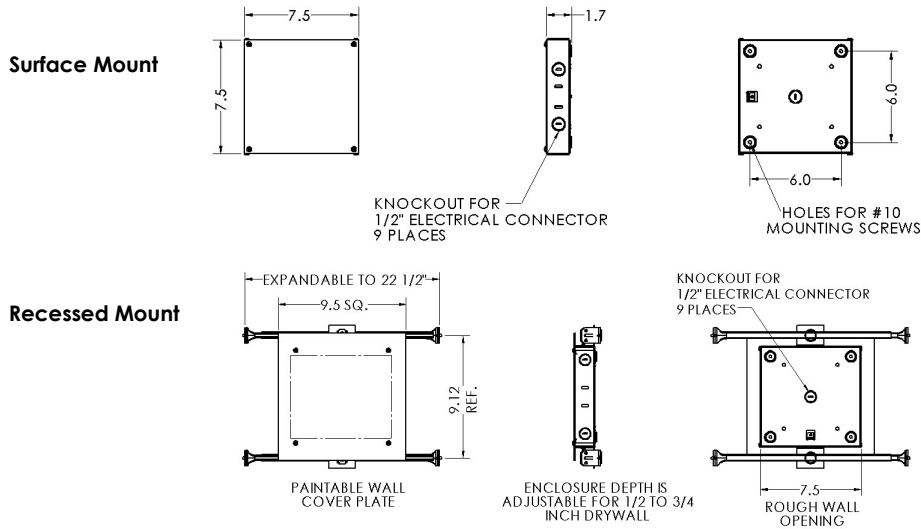
## L8 configuration shown (shown with front cover removed)

Each driver is provided with a terminal block on both input and output side for ease of wiring and installation.



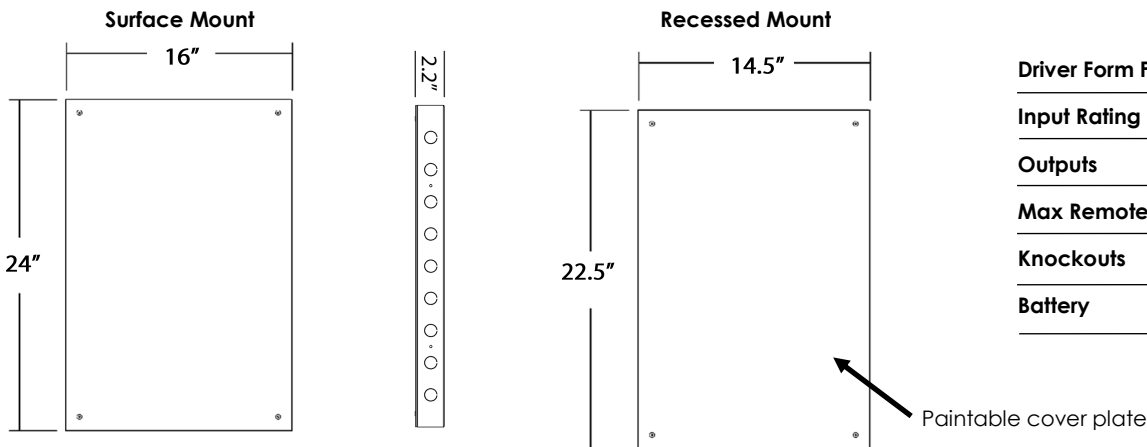
# HYPERDRIVE REMOTE POWER SYSTEM

## Sx (Small Hyper Drive Remote Canopy)



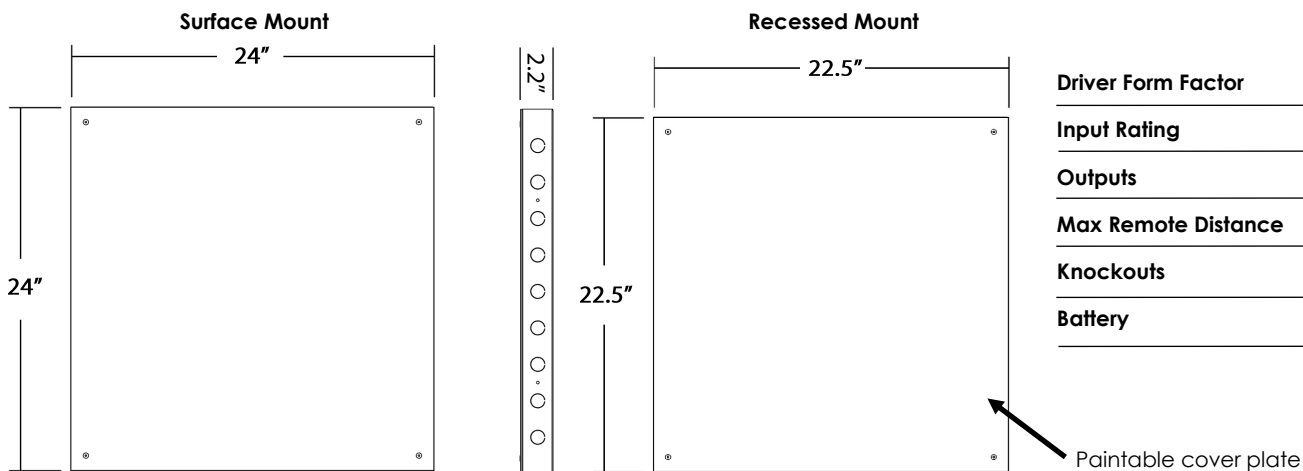
<b>Driver Form Factor</b>	Compact
<b>Input Rating</b>	120-277V
<b>Outputs</b>	Up to 2 (190W max)
<b>Max Remote Distance</b>	Up to 100' (30.5m)
<b>Knockouts</b>	(9) 1/2"
<b>Battery</b>	Not Available

## Mx (Medium Hyper Drive Remote Canopy)



<b>Driver Form Factor</b>	Linear
<b>Input Rating</b>	120-277V
<b>Outputs</b>	Up to 4 (300W max)
<b>Max Remote Distance</b>	Up to 100' (30.5m)
<b>Knockouts</b>	(20) 1/2"
<b>Battery</b>	Available

## Lx (Large Hyper Drive Remote Canopy)



<b>Driver Form Factor</b>	Linear
<b>Input Rating</b>	120-277V
<b>Outputs</b>	Up to 8 (600W max)
<b>Max Remote Distance</b>	Up to 100' (30.5m)
<b>Knockouts</b>	(20) 1/2"
<b>Battery</b>	Available

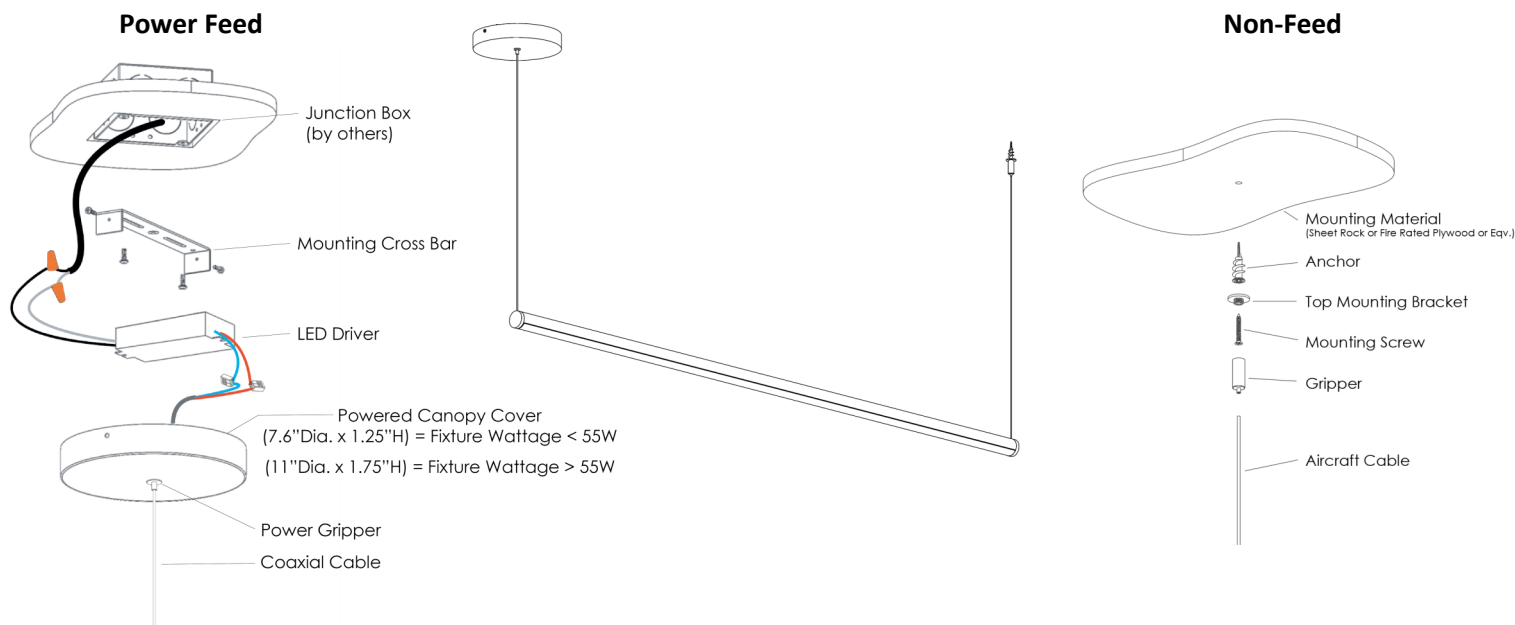


# MICRO OPTIMO DIRECT

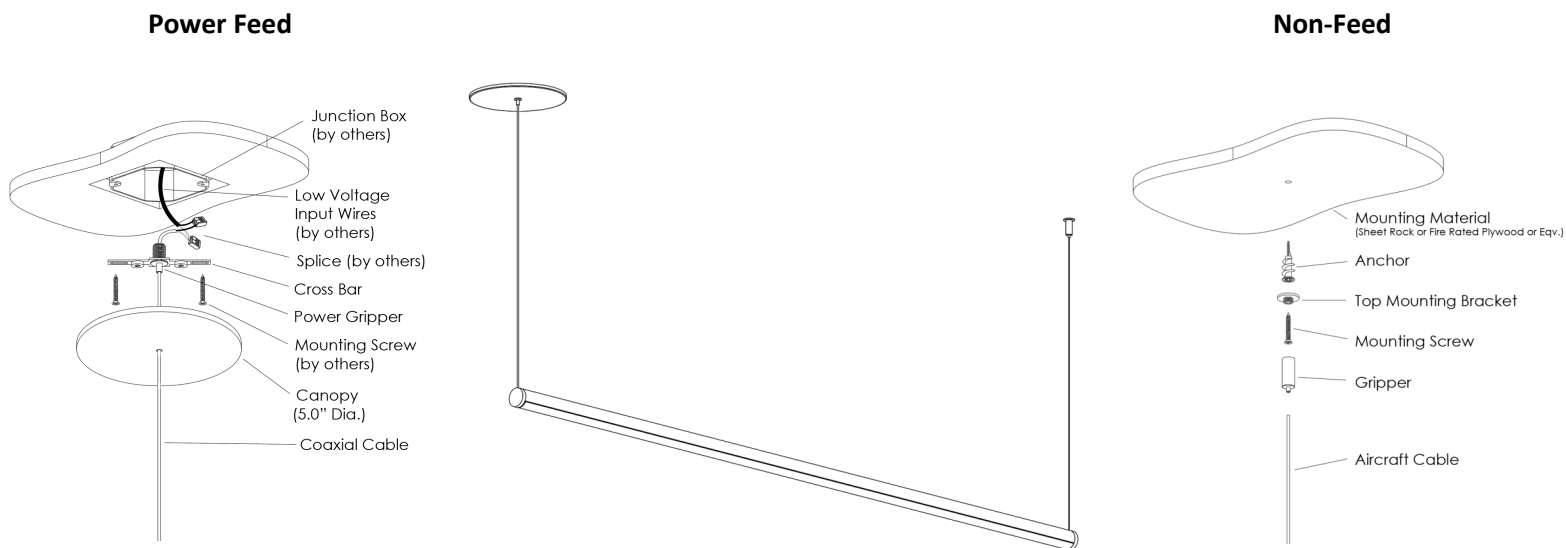
## MOUNTING OPTIONS

**2' - 6' Fixtures require 1 Non-Feed Mount. Fixtures larger than 6' require 2 Non-Feed Mount.**

### PCx - Powered Canopy (Driver Included)



### CRx - Canopy Recessed

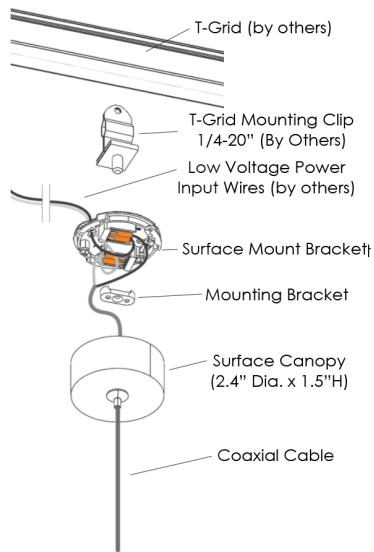


**REQUIRES  
HYPERDRIVE**

## MOUNTING OPTIONS

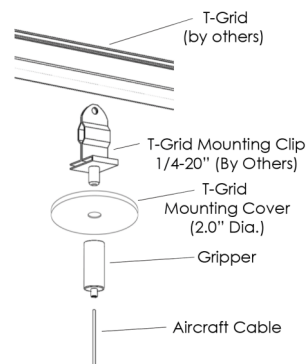
### CTx - Canopy T-Grid

#### Power Feed



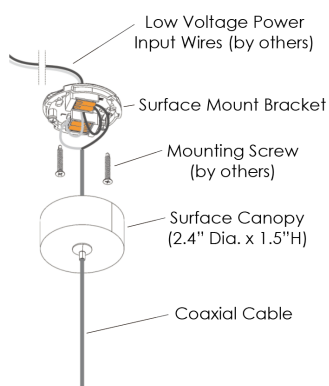
**REQUIRES  
HYPERDRIVE**

#### Non-Feed



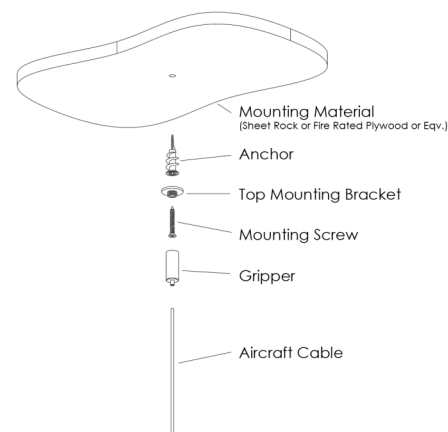
### CSx - Canopy Surface

#### Power Feed



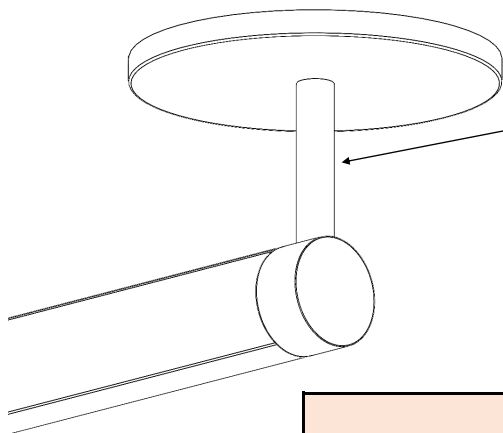
**REQUIRES  
HYPERDRIVE**

#### Non-Feed



### STEMxx (Stem Mount With Canopy)

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

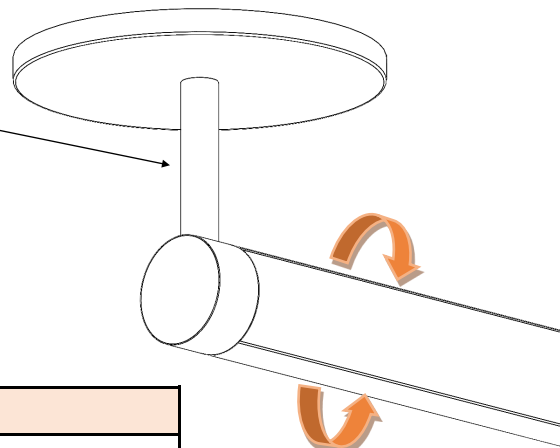


POWER RUN LOCATED  
INSIDE STEM

Stem length can be specified  
(see chart)

### RSTEMxx (Rotational Stem Mount With Canopy)

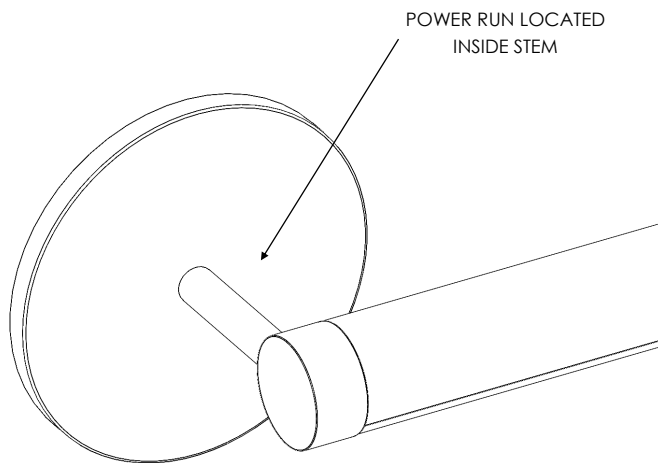
Please specify stem length when ordering. See "Stem Lengths" table for available options.



Stem Lengths					
Specified stem length is 3/4" shorter when measured from ceiling to fixture (CtoF).*					
STEMXxx	CtoF	STEMXxx	CtoF	STEMXxx	CtoF
6"	5.25"	24"	23.25"	60"	59.25"
8"	7.25"	27"	26.25"	66"	65.25"
9"	8.25"	30"	29.25"	72"	71.25"
12"	11.25"	36"	35.25"	78"	77.25"
15"	14.25"	42"	41.25"	84"	83.25"
18"	17.25"	48"	47.25"	90"	89.25"
21"	20.25"	54"	53.25"	96"	95.25"

### WM (Wall Mount)

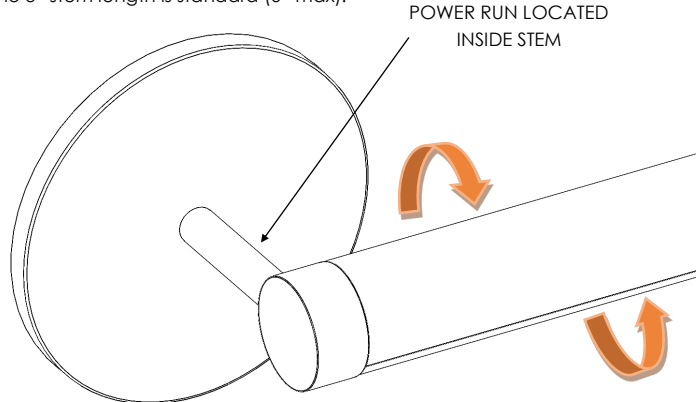
The 3" stem length is standard (6" max).



POWER RUN LOCATED  
INSIDE STEM

### RWM (Rotational Wall Mount)

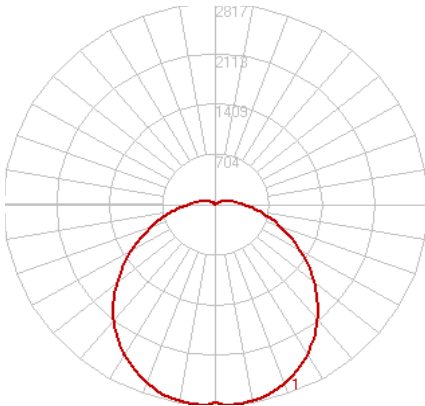
The 3" stem length is standard (6" max).



POWER RUN LOCATED  
INSIDE STEM



## PHOTOMETRICS



### Candela Table

Vert. Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	2765	2765	2765	2765	2765
5	2702	2724	2749	2792	2814
10	2661	2687	2726	2772	2793
15	2581	2612	2666	2720	2742
20	2482	2499	2566	2632	2665
25	2366	2386	2436	2519	2557
30	2210	2236	2306	2387	2428
35	2033	2060	2155	2227	2277
40	1830	1865	1969	2046	2104
45	1618	1657	1775	1850	1914
50	1417	1440	1574	1648	1711
55	1203	1240	1371	1454	1505
60	997	1036	1176	1256	1291
65	780	833	983	1063	1093
70	586	656	802	888	909
75	404	492	647	731	747
80	236	347	512	595	608
85	109	232	394	476	488
90	11	147	300	375	388

### Model Tested

MOPTD-8-1000-SD-35K-80

### Luminance Data (cd/sq.m)

Angle in Degrees	Avg. 0-Deg	Avg. 45-Deg	Avg. 90-Deg
45	23513	20330	20211
55	21490	17715	17507
65	18836	15107	14655
75	15786	12718	12257
85	12053	11247	10739

### Power<sup>1</sup>

Direct LPF	Total Lumens	SD Satin Diffuse	
		LPW	W/ft.
350	2945	107	4
500	4207	107	5
750	6310	107	7
1000	8416	107	10

<sup>1</sup>Based on 8' lengths at 35K CCT and 80 CRI modules. All wattage values are rounded up. Delivered lumens may vary +/- 5%. Actual wattage may vary +/- 5%.

### Wattage Multiplier

	CCT	4' Length	8' Length
80 CRI	30K	1.11	1.05
	35K	1.05	1
	40K	1.03	0.98
	50K	1.02	0.97
90 CRI	30K	1.17	1.11
	35K	1.11	1.05
	40K	1.08	1.03
	50K	1.07	1.02

### Multiplier How-To

To determine CRI/CCT configuration wattage:

Choose wattage from Power matrix for desired optic and lumen output for 8' fixture length.

Wattage x Multiplier = New Configuration Wattage

## FINISHES

### STANDARD FINISHES



WHITE MINI TEXTURE



BLACK MINI TEXTURE

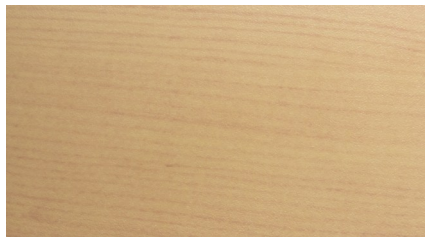


SILVER SPARKLE TEXTURE

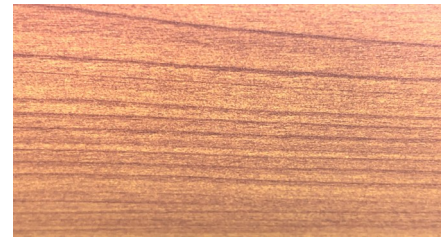
### PREMIUM STOCK FINISHES



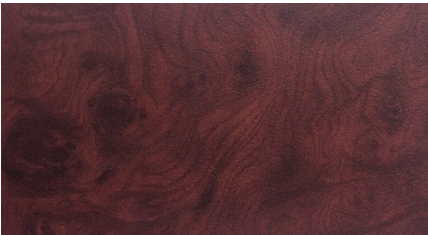
PSF001 (WOOD#1)



PSF002 (WOOD#2)



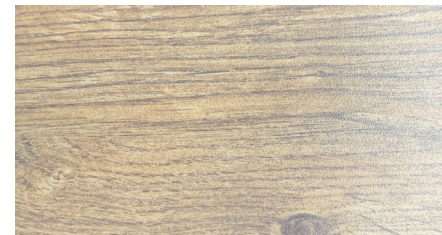
PSF003 (WOOD#3)



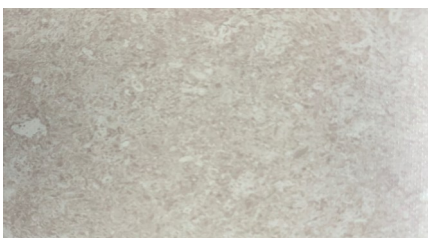
PSF004 (WOOD#4)



PSF005 (WOOD#5)



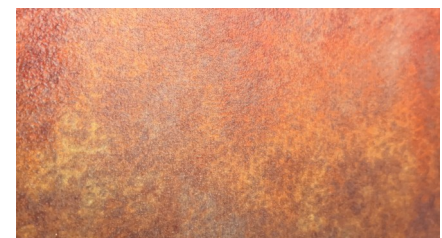
PSF006 (WOOD#6)



PSF007 (STONE #1)



PSF008 (STONE #2)



PSF009 (METAL #1)

**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.

## SPECIFICATIONS

### Housing

Nominal 1 1/2" round housing of continuous extruded 6063 T5 aluminum.

### Color

Colors for the housing are available in a powder coated white, black, silver, and woodgrain with end cap to match. Consult factory for custom colors.

### Luminaire Length

2', 4' or 8' lengths are available for a single stand-alone section.

### End Caps

Machined Aluminum flat end caps are mechanically attached with no exposed fasteners to enhance architectural aesthetic and prevent light leak.

### Source

Lumen packages are available in four color temperature options (3000K, 3500K, 4000K and 5000K) — all within 3 MacAdam ellipses.

### Certification

Intertek cETLus Listed. RoHS (Restriction of Hazardous Substances) and Buy American Act compliant.

### Battery

Lithium battery providing up to 780lm(6W) or up to 1300lm(10W) for 90 minutes. UL924 listed. Class 2 compliant. Meets Title 20 CEC (California Energy Commission) efficiency standards. Requires Hyperdrive medium or large as well as Test/ Status switch is located on "HyperDrive"

### Environment

Suitable for dry and damp locations.  
Operating temp.: -40°C to +50°C  
-40°F to +122°F

### Dimming Driver

UL listed, class P (0-10V) dimming driver with programmable current for configurable fixture lumen outputs.  
2.5 KV overcurrent protection  
Power factor >.9

### Packaging

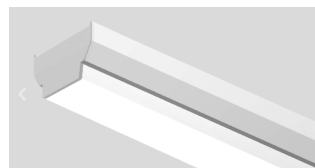
Sustainably manufactured outside cardboard box and biodegradable, protective poly-foam luminaire inserts.

## COMPANION PRODUCTS

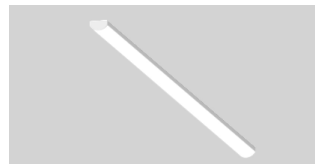
Micro Beam



MicroFlat



MicroRound



## WARRANTY

5-year limited warranty. Complete warranty terms can be located at:

[http://www.starteklightingamerica.com/images/pdf/warranty/Optimo\\_Series\\_Warranty.pdf](http://www.starteklightingamerica.com/images/pdf/warranty/Optimo_Series_Warranty.pdf)

Note: Actual performance may differ as a result of installation environment and final application.  
All values are design or typical values, measured under laboratory conditions, at 25°C (77°F) .