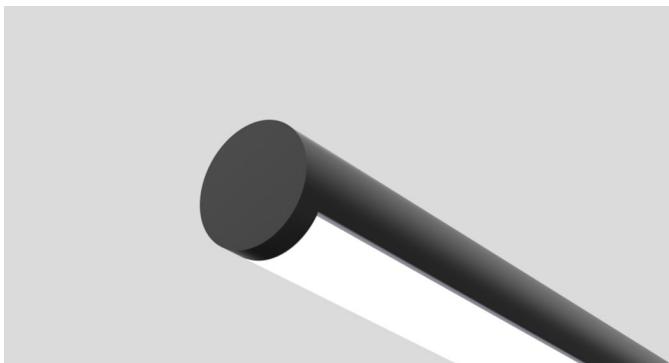
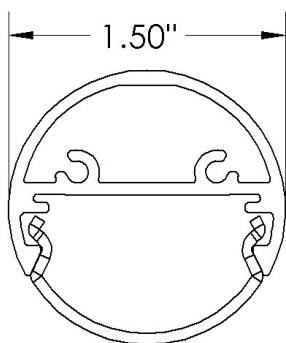


Type:	
Project:	
REP/Agent:	
Order #:	

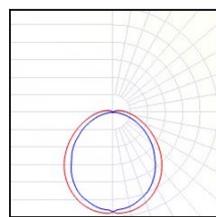
MICRO OPTIMO DIRECT



DIMENSIONS



DISTRIBUTION



SD = Satin Ice Diffuse



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

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 See Max Lumen Output on pg. 1	SD= SatinIce Diffuse	27K= 2700K 30K= 3000K 35K= 3500K 40K= 4000K 50K= 5000K TW= Tunable White ^{1,2}	80= 80 90= 90 (R9 50min)

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

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

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

¹ Requires Hyperdrive Remote Driver
² Tunable White Driver must be specified
³ 50W Max. Dual driver required

Type:	
Project:	
REP/Agent:	
Order #:	

HYPD HYPER DRIVE REMOTE POWER SYSTEM

HYPD	SIZE / DRIVER QTY	EMERGENCY BATTERY (OPTIONAL)	MOUNTING	FINISH
HYPD	Replace x with driver quantity Sx = Small- up to two drivers (190W) Mx = Medium- up to four drivers (300W) Lx = Large- up to eight drivers (600W)	Replace # with battery quantity NB = No Emergency Battery #EMB6 = 6W EM Battery (Bodine) #EMB10 = 10W EM Battery (Bodine) #FCEMB10 = 10W EM Battery (Factory Choice)	S = Surface/ Strut R = Recessed	STANDARD PW = Powder Coat White PB = Powder Coat Black

Note: Batteries are only available in Medium and Large enclosures. Each emergency battery reduces the driver quantity of the Hyper Drive.

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

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

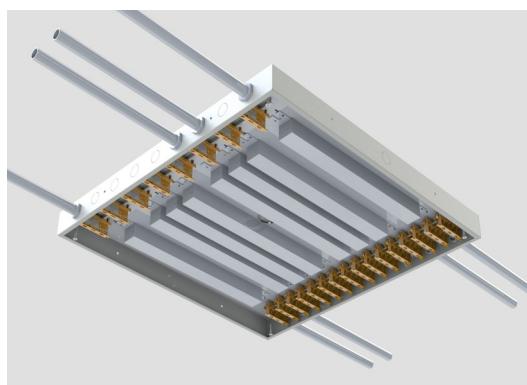
NOTES & LIMITATIONS

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)

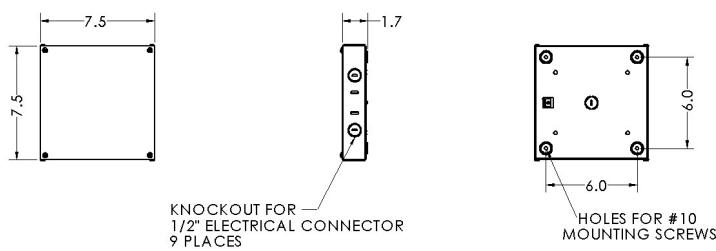
Each driver is provided with a terminal block on both input and output side for ease of wiring and installation.



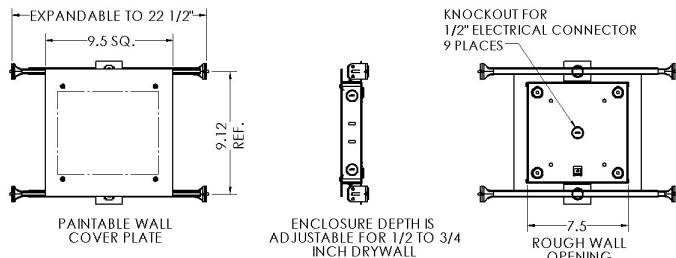
HYPERRIVE REMOTE POWER SYSTEM

Sx (Small Hyper Drive Remote Canopy)

Surface Mount



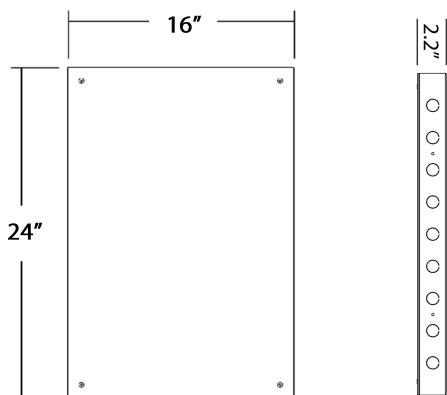
Recessed Mount



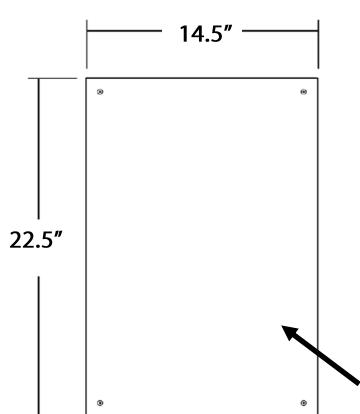
Driver Form Factor	Compact
Input Rating	120-277V
Outputs	Up to 2 (190W max)
Max Remote Distance	Up to 100' (30.5m)
Knockouts	(9) 1/2"
Battery	Not Available

Mx (Medium Hyper Drive Remote Canopy)

Surface Mount



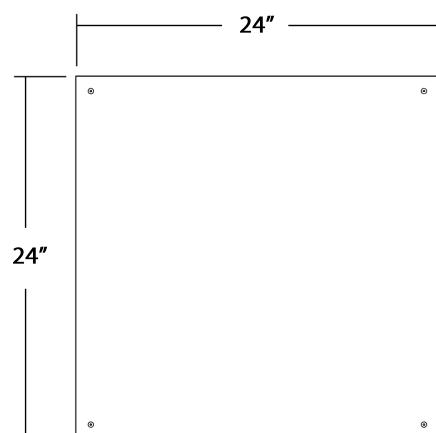
Recessed Mount



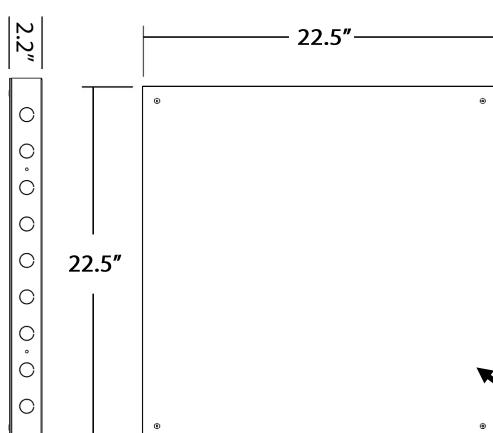
Driver Form Factor	Linear
Input Rating	120-277V
Outputs	Up to 4 (300W max)
Max Remote Distance	Up to 100' (30.5m)
Knockouts	(20) 1/2"
Battery	Available

Lx (Large Hyper Drive Remote Canopy)

Surface Mount



Recessed Mount



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

How to use this guide

Fill out the worksheet to specify your requirements for your configurations.
Be sure to callout battery and sensor locations.

Refer to the run chart for standard run configurations on linear lengths,
consult factory for custom configurations.

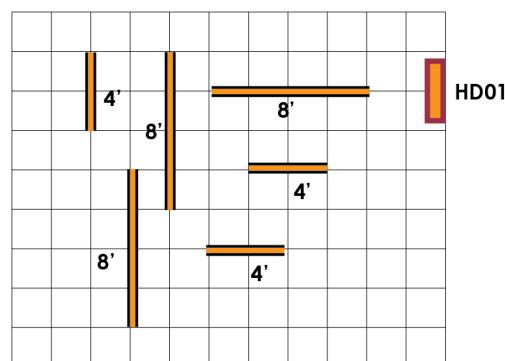
Use the order guide to create your BOM for your configuration.

Submit the worksheet along with your order.

#1 Example Bill of Materials

Qty.	Type
3	MOPTD-8-750-SD-35K-80-PW-CSW-HD01
3	MOPTD-4-750-SD-35K-80-PW-CSW-HD01
1	HYPD-L6-NB-R-PW-DTZ-HD01

#1 Example Configuration

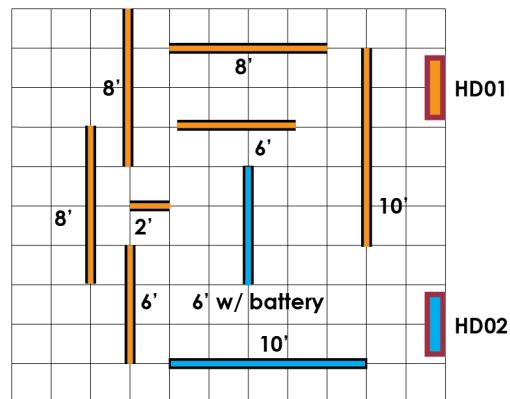


Note: Low Voltage Power transfer wire between fixture and HyperDrive remote power system provided by others.

#2 Example Bill of Materials

Qty.	Type
3	MOPTD-8-750-SD-35K-80-PW-CSW-HD01
2	MOPTD-6-750-SD-35K-80-PW-CSW-HD01
1	MOPTD-2-750-SD-35K-80-PW-CSW-HD01
1	MOPTD-10-750-SD-35K-80-PW-CSW-HD01
1	MOPTD-6-750-SD-35K-80-PW-CSW-E1-HD02
1	MOPTD-10-750-SD-35K-80-PW-CSW-HD02
1	HYPD-L8-NB-R-PW-DTZ-HD01
1	HYPD-M3-1EMB6-R-PW-DTZ-HD02

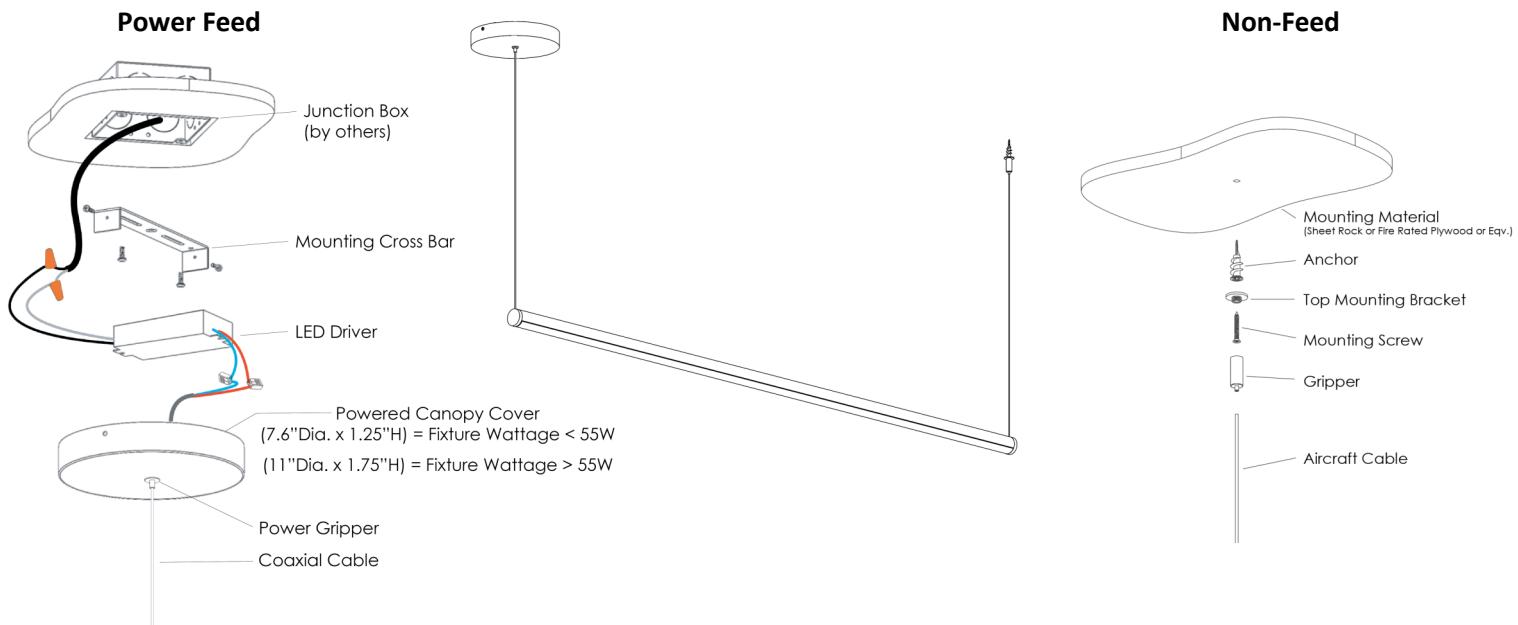
#2 Example Configuration



Note: Low Voltage Power transfer wire between fixture and HyperDrive remote power system provided by others.

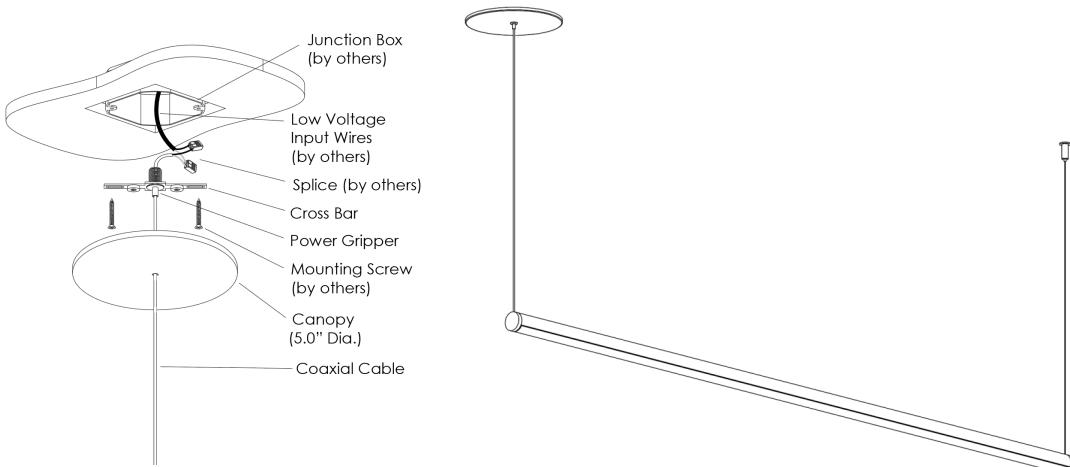
2' - 6' Fixtures require 1 Non-Feed Mount. Fixtures larger than 6' require 2 Non-Feed Mount.

PCx - Powered Canopy (Driver Included)

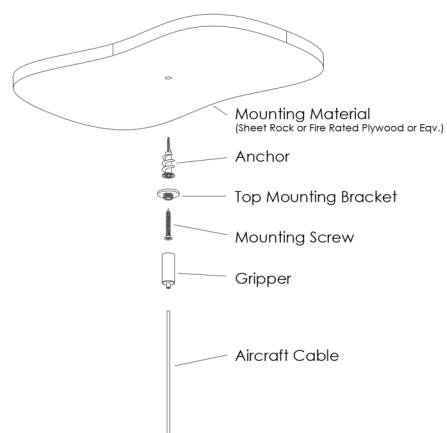


CRx - Canopy Recessed

Power Feed



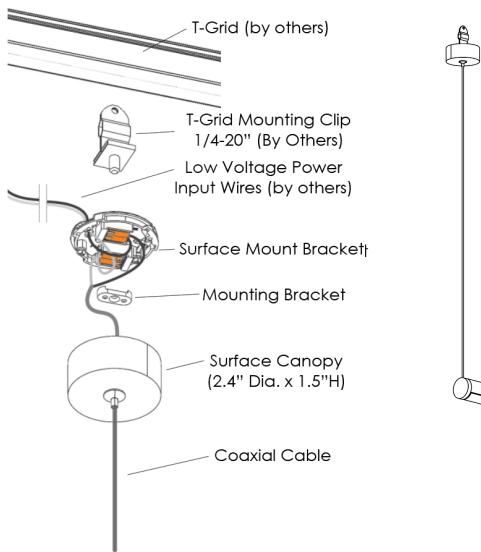
Non-Feed



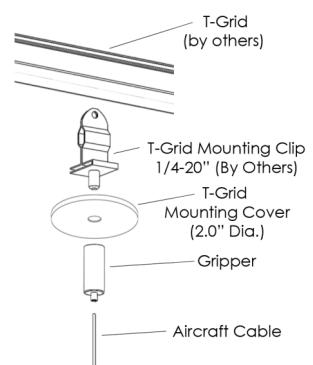
REQUIRES
HYPERDRIVE

CTx - Canopy T-Grid

Power Feed



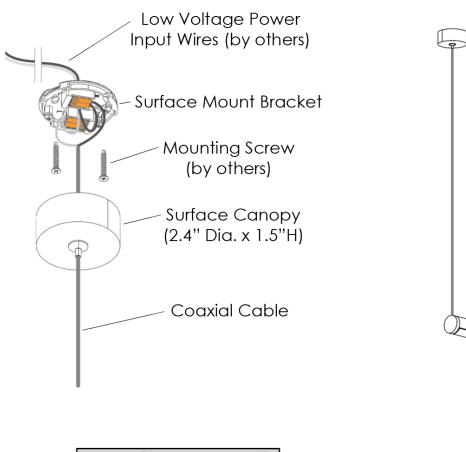
Non-Feed



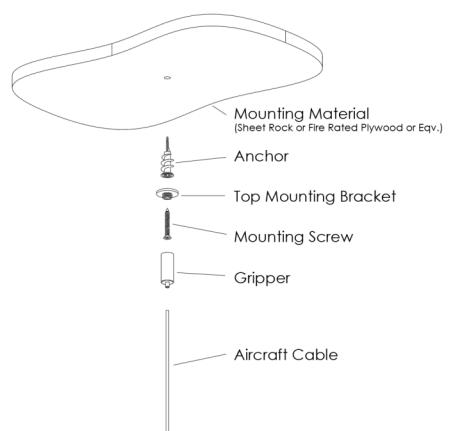
REQUIRES
HYPERDRIVE

CSx - Canopy Surface

Power Feed



Non-Feed



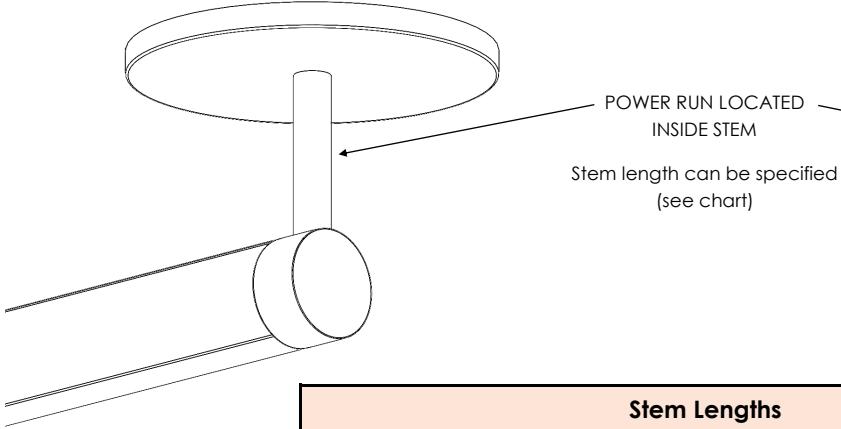
REQUIRES
HYPERDRIVE

MICRO OPTIMO DIRECT

MOUNTING OPTIONS

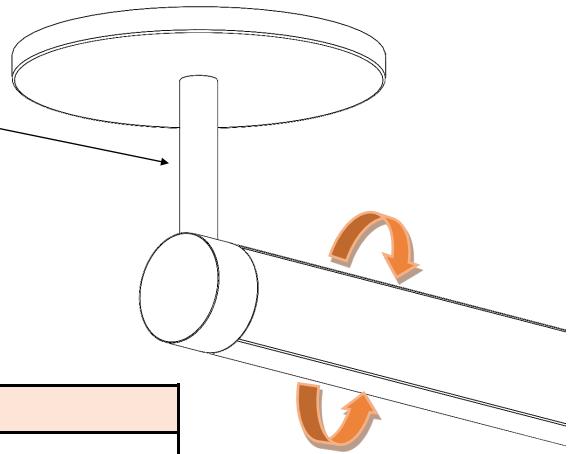
STEMxx (Stem Mount With Canopy)

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



RSTEMxx (Rotational Stem Mount With Canopy)

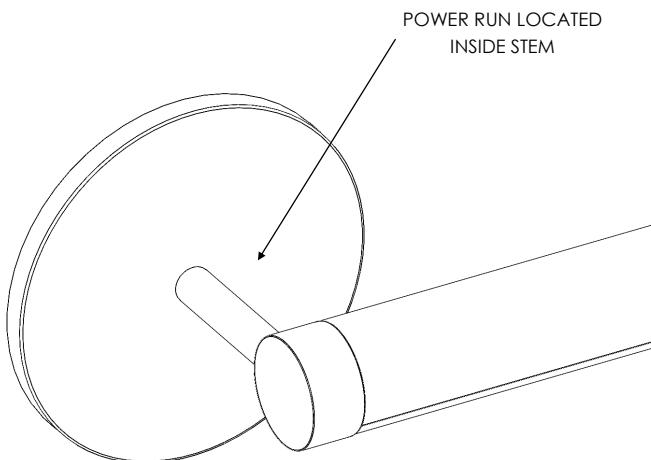
Please specify stem length when ordering. See "Stem Lengths" table for available options.



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"

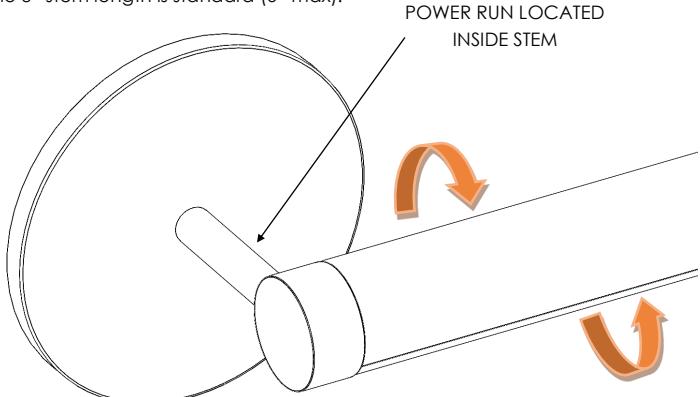
WM (Wall Mount)

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

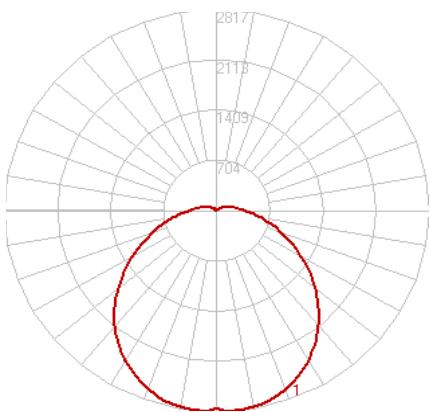


RWM (Rotational Wall Mount)

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



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

Power¹

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

¹Based 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:

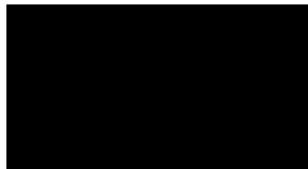
Choose wattage from Power matrix for desired optic and lumen output for 8' fixture length.

Wattage x Multiplier = New Configuration Wattage

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.

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

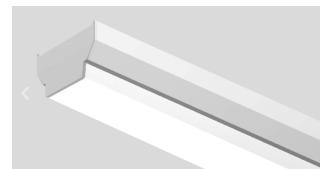
Sustainably manufactured outside cardboard box and biodegradable, protective poly-foam luminaire inserts.

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

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).