MICRO BEAM SURFACE MOUNT

DIMENSIONS

1.31

1.31

## FEATURES

★ Soft diffused direct illumination in a sleek modern minimalist style.

★ 4' and 8' individual units, or custom lengths

★ 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

★ Continuous lensing standard– runs up to 200'

DISTRIBUTION

SD= SatinIce Diffuse

LUMEN PACKAGES

MODEL	LUMENS	WATTS	LPW
MBEAMD-4-1000-SD-35K-80-SM-U	4,000	40	98
MBEAMD-8-1000-SD-35K-80-SM-U	8,000	78	101

MICRO BEAM SURFACE MOUNT

MBEAMD					
SERIES	**LENGTH**	**LUMENS/FOOT**	**DISTRIBUTION**	**CCT**	**CRI**
MBEAMD	**xx**= Run Length **Sxx**= Symmetric Run Length **_x_RECT**= Rectangle **_x_L**= L-Shape **_x_x_U**= U-Shape	**350**= 350 LPF **500**= 500 LPF **750**= 750 LPF **1000**=1000 LPF **XXX**= Custom LPF	**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**	**ELECTRICAL**

STANDARD
PW= Powder Coat White
PB= Powder Coat Black
PS= Powder Coat Silver
 	
PREMIUM
RALxxxx= Powder Coat
  RAL xxxx (Gloss Finish)
PSFx= Prem Stock Finish
 	
CUSTOM
PO= Powder Other
 	
See pg. 9 for standard
and premium options.
	T-GRID
	TB1= 9/16" Grid
	TB2= 15/16" Grid
	TB3= 9/16" Grid (Tegular Tile)
	TB4= 15/16" Grid (Tegular Tile)
	
	SURFACE
	SM= Surface Mount
	
	Items in grey box require Hyperdrive Remote Driver
		1C= Single Circuit
		MC= Multiple Circuits
		    (multiple switch legs across run length)
		EC= Emergency Circuit
		    (separate power drops for EC fixtures)

REMOTE OPTIONS	**HYPERDRIVE 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

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

EXAMPLE: MBEAMD-4-750-SD-35K-90-PW-SM-HD01

899 E Park Ave, Libertyville, IL 60048 ★ (877) STARTEK ★ www.starteklightingamerica.com

HYPER DRIVE REMOTE POWER SYSTEM

HYPD				
SERIES	**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) *Note: Batteries are only available in Medium and Large enclosures. Each emergency battery reduces the driver quantity of the Hyper Drive.*	**S**= Surface/ Strut **R**= Recessed	**STANDARD** **PW**= Powder Coat White **PB**= Powder Coat Black **PREMIUM** **RALxxxx**= Power Coat RAL xxxx (Gloss Finish)

	VOLTAGE	**OPTIONS**	**HYPERDRIVE CIRCUIT**
	U= 120-277	**SPECIALTY DRIVERS** *(Standard driver is 0-10V, dim to 1% output current)* **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* *Note: Specialty driver options are not available with the small power-box option, with the exception of TW-A* **SENSORS** *Consult factory for options* **OTHERS** **CP**= Chicago Plenum (CCEA)	**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 out put side for ease of wiring and installation.
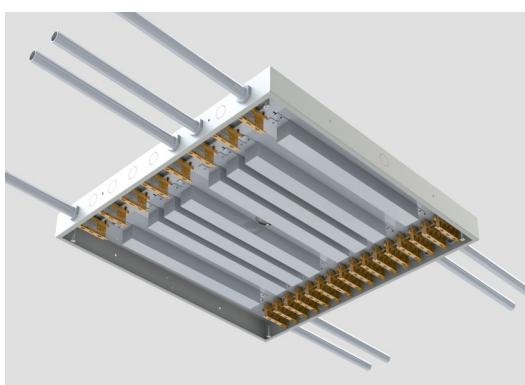
HYPERDRIVE REMOTE POWER SYSTEM

Sx (Small Hyper Drive Remote Canopy)

Surface Mount

7.5

7.5

1.7

KNOCKOUT FOR
1/2" ELECTRICAL CONNECTOR
9 PLACES

HOLES FOR #10
MOUNTING SCREWS

6.0

6.0

Recessed Mount

EXPANDABLE TO 22 1/2"

9.5 SQ.

9.12 REF.

PAINTABLE WALL
COVER PLATE

ENCLOSURE DEPTH IS
ADJUSTABLE FOR 1/2 TO 3/4
INCH DRYWALL

KNOCKOUT FOR
1/2" ELECTRICAL CONNECTOR
9 PLACES

ROUGH WALL
OPENING

7.5
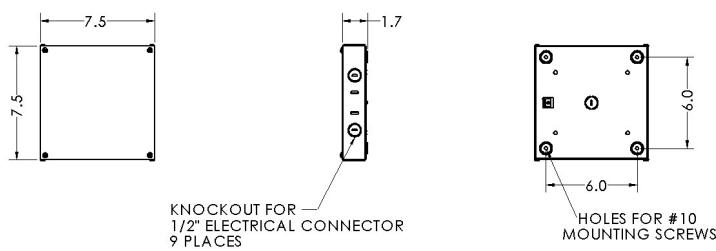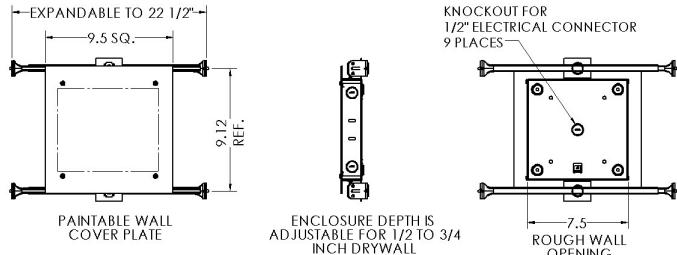
Driver Form Factor	Compact
Input Rating	120-277V
Outputs	Up to 2 (190W max)
Max Remote Distance	Up to 100' (30.5m)
Knockouts	(9) 1/2"
Battery	Not Available

Mx (Medium Hyper Drive Remote Canopy)

Surface Mount

16"

24"

2.2"

Recessed Mount

14.5"

22.5"

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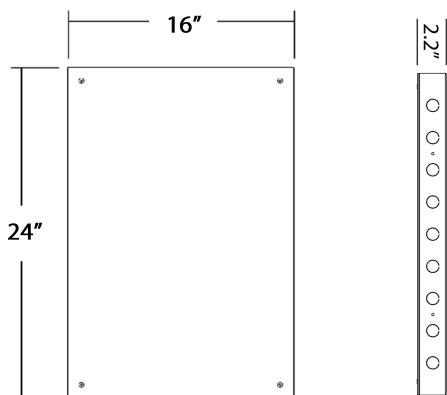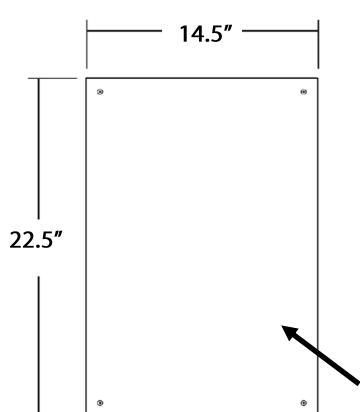
Driver Form Factor	Linear
Input Rating	120-277V
Outputs	Up to 4 (300W max)
Max Remote Distance	Up to 100' (30.5m)
Knockouts	(20) 1/2"
Battery	Available

Lx (Large Hyper Drive Remote Canopy)

Surface Mount

24"

24"

2.2"

Recessed Mount

22.5"

22.5"

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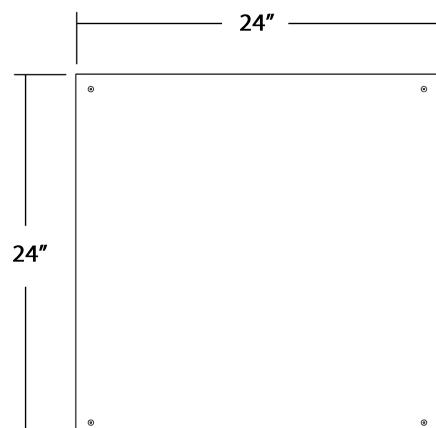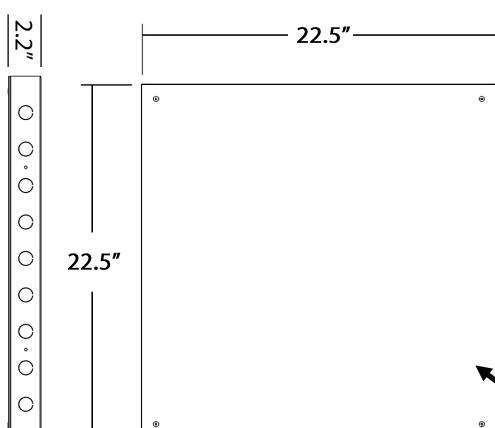
Driver Form Factor	Linear
Input Rating	120-277V
Outputs	Up to 8 (600W max)
Max Remote Distance	Up to 100' (30.5m)
Knockouts	(20) 1/2"
Battery	Available

MICRO BEAM SURFACE MOUNT

STARTEK
LIGHTING AMERICA

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	MBEAMD-4-750-SD-35K-90-PW-SM-HD01	
3	MBEAMD-8-750-SD-35K-90-PW-SM-HD01	
1	HYPD-L6-NB-R-PW-DTZ-HD01	

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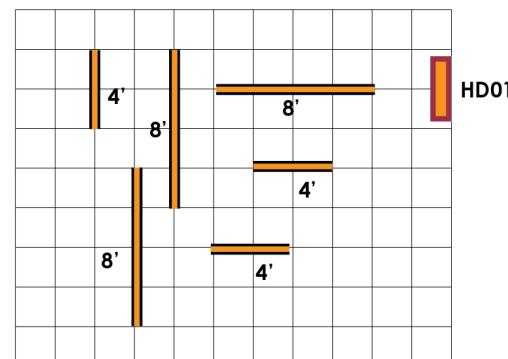
Note: Low Voltage Power transfer wire between fixture and
HyperDrive remote power system provided by others.

#2 Example Bill of Materials

Qty.	Type	
3	MBEAMD-8-750-SD-35K-90-PW-SM-HD01	
2	MBEAMD-6-750-SD-35K-90-PW-SM-HD01	
1	MBEAMD-2-750-SD-35K-90-PW-SM-HD01	
1	MBEAMD-10-750-SD-35K-90-PW-SM-HD01	
1	MBEAMD-6-750-SD-35K-90-PW-SM-E1-HD02	
1	MBEAMD-10-750-SD-35K-90-PW-SM-HD02	
1	HYPD-L8-NB-R-PW-DTZ-HD01	
1	HYPD-M3-1EMB6-R-PW-DTZ-HD02	

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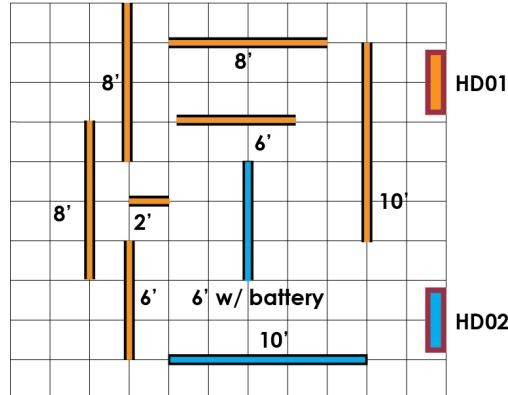
Note: Low Voltage Power transfer wire between fixture and
HyperDrive remote power system provided by others.

MICRO BEAM SURFACE MOUNT

MOUNTING OPTIONS

T-Grid Options

Twist Clip Mount
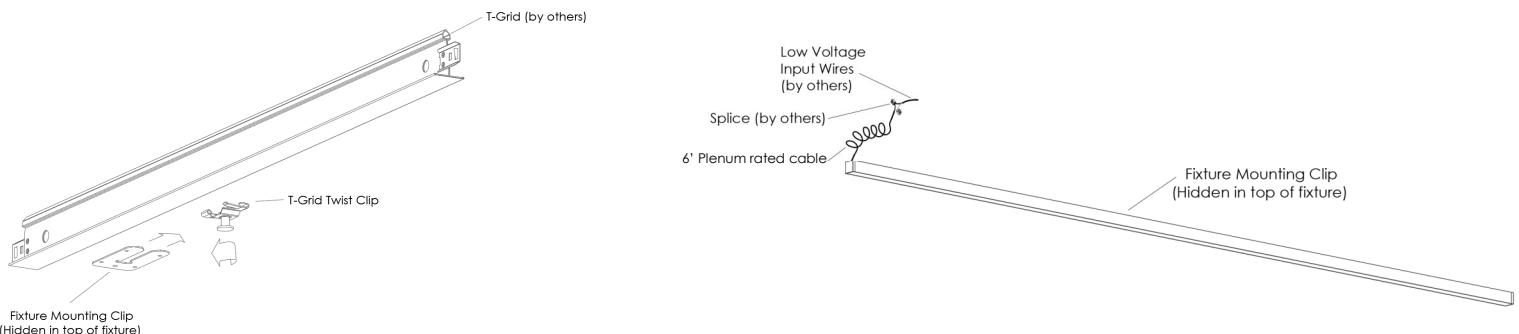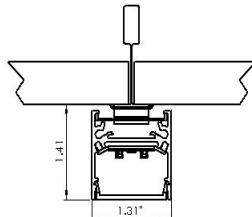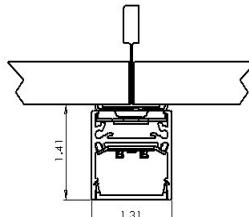
T-Grid (by others)

T-Grid Twist Clip

Fixture Mounting Clip
(Hidden in top of fixture)

Low Voltage
Input Wires
(by others)

Splice (by others)

6' Plenum rated cable

Fixture Mounting Clip
(Hidden in top of fixture)

TB1	**TB2**	**TB3**	**TB4**
(9/16" T-Bar Flush)	(15/16" T-Bar Flush)	(9/16" T-Bar Tegular)	(15/16" T-Bar Tegular)

REQUIRES HYPERDRIVE

1.41   1.31"

1.41   1.31

1.32   1.31

1.32   1.31

Surface Mount

Low Voltage
Input Wires
(by others)

Splice (by others)

6' Plenum rated cable

Removable LED Tray

Lens

Mounting Screw
(Provided by Others)

REQUIRES HYPERDRIVE

MICRO BEAM SURFACE MOUNT

ST★RTEK
LIGHTING AMERICA
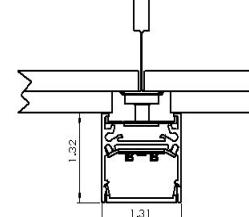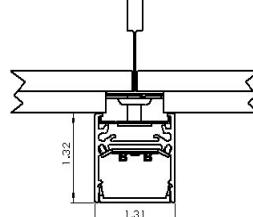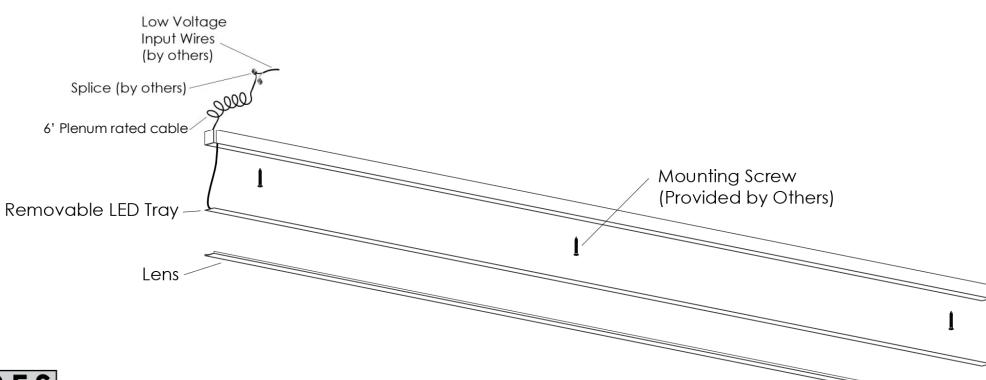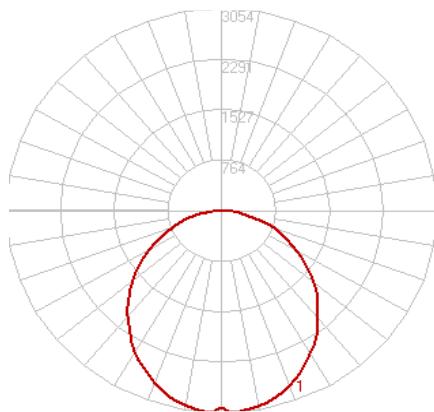
Model Tested
MBEAMD-8-1000-SD-35K-80

Candela Table

Vert. Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	2982	2982	2982	2982	2982
5	3045	2985	2951	2934	2944
10	3002	2939	2904	2883	2890
15	2925	2859	2823	2797	2803
20	2814	2744	2714	2681	2683
25	2674	2608	2580	2543	2538
30	2513	2446	2423	2382	2372
35	2328	2265	2246	2204	2191
40	2128	2069	2055	2016	2005
45	1918	1861	1849	1817	1801
50	1699	1646	1636	1609	1598
55	1480	1434	1422	1402	1393
60	1250	1209	1195	1182	1170
65	1015	983	968	954	941
70	785	759	742	725	710
75	561	542	525	507	486
80	351	339	324	302	285
85	165	153	145	128	117
90	0	0	0	0	0

Luminance Data (cd/sq.m)

Angle in Degrees	Avg. 0-Deg	Avg. 45-Deg	Avg. 90-Deg
45	36456	35144	34245
55	34679	33326	32642
65	32272	30794	29945
75	29141	27289	25243
85	25513	22353	17979

Power[1]

Direct LPF	Total Lumens	WD Wide Diffuse	
		LPW	W/ft.
350	2800	101	3
500	4000	101	5
750	6000	101	7
1000	8000	101	10

[1]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

MICRO BEAM SURFACE MOUNT

ROW CONFIGURATIONS

xx (Run Length)

The standard construction of run lengths is to build with as many 8' sections as possible and finish the run with a shorter length fixture if necessary.

Run lengths always start with the longest fixture and receives the power feed.

10' RUN	8' · 2'
16' RUN	8' · 8'
20' RUN	8' · 8' · 4'
22' RUN	8' · 8' · 6'
28' RUN	8' · 8' · 8' · 4'

NOTE: Fixtures in continuous runs are available in 6" increments.

SRxx (Symmetric Run)

The construction of SRxx is to build with equal length fixtures. Please indicate this on your P.O. when placing your order.

Examples of symmetric construction of runs over 8' are as follows:

10' RUN	5' · 5'
16' RUN	8' · 8'
20' RUN	5' · 5' · 5' · 5'
22' RUN	5.5' · 5.5' · 5.5' · 5.5'
28' RUN	7' · 7' · 7' · 7'

NOTE: Fixtures in continuous runs are available in 6" increments.

MOUNTING LOCATIONS

Each starter or individual fixture will be provided with (2) mounting supports (🟠). Each additional fixture will be provided with (1) support which can be located anywhere along the 2nd half of the fixture (highlighted below):

Examples of continuous run mounting locations are as follows:

12' RUN	🟠 8' 🟠 4'
16' RUN	🟠 8' 🟠 8'
20' RUN	🟠 8' 🟠 8' 4'
24' RUN	🟠 8' 🟠 8' 8'
28' RUN	🟠 8' 🟠 8' 8' 4'

MICRO BEAM SURFACE MOUNT

STARTEK
LIGHTING AMERICA

JOINT SHAPE CONFIGURATION WITH MITER CUTS

We provide joint configurations in the stock size of 24" X 24" as shown below.

| **_x_RECT** |
|---|
| Rectangle |
| Supply AxB dimensions |

_x_L
L-Shape
Supply AxB dimensions

_x_ x_U
U-Shape
Supply AxBxC dimensions

"A"   "B"

"A"   "B"

"A"   "B"   "C"
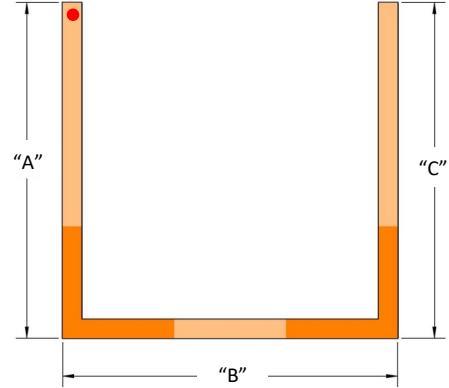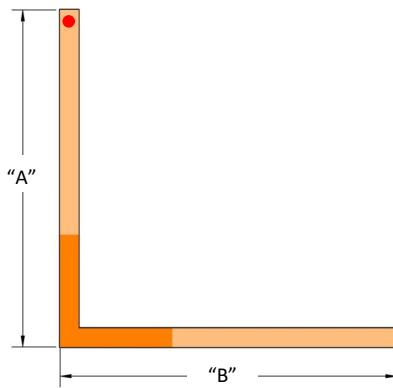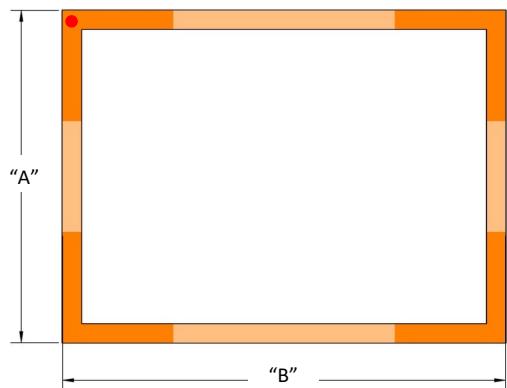
● = Power Location

MICRO BEAM SURFACE MOUNT

FINISHES

STANDARD FINISHES
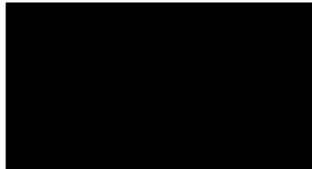
WHITE MINI TEXTURE	BLACK MINI TEXTURE	SILVER SPARKLE TEXTURE

PREMIUM STOCK FINISHES
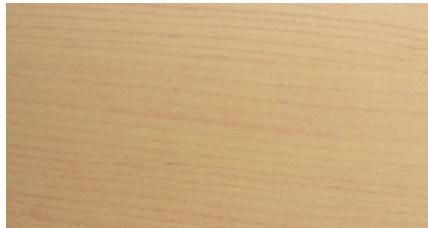
PSF001 (WOOD#1)	PSF002 (WOOD#2)	PSF003 (WOOD#3)
PSF004 (WOOD#4)	PSF005 (WOOD#5)	PSF006 (WOOD#6)
PSF007 (STONE #1)	PSF008 (STONE #2)	PSF009 (METAL #1)
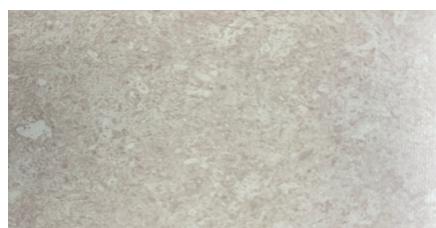
NOTE: A minimal impact to lead times will apply to products specified with Premium Stock Finishes (PSF). It is not to be assumed that these finishes are stocked in our warehouse, but rather, are readily available to us for your project.

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

MICRO BEAM SURFACE MOUNT

SPECIFICATIONS

Housing
Nominal 1 1/4" x 1 1/4" square 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 Direct
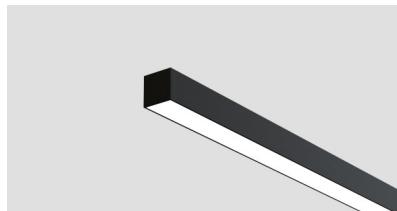
Recessed Micro Beam
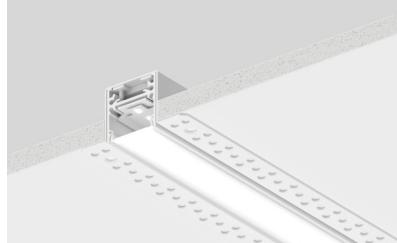
WARRANTY

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

http://www.starteklightingamerica.com/images/pdf/warranty/Micro Beam_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) .