

## Micro Round Suspended Direct

### Key Features

- Extruded aluminum single piece housing
- Soft diffuse direct lighting
- Toolless height adjustment at the ceiling
- 0-10V dimming to 1% is standard
- 120-277V for power enclosure
- Standard plenum-rated cable; plenum-rated enclosures available.
- Three power choices of Hyper Drive remote power system



## 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: 1.62" x 0.89"

### Finish

- Powder coated
- Colors: White or Black
- End Caps: Color-matched to housing

### Luminaire Length

- Standard individual lengths: 2', 4', 6' or 8'

### 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

- (0-10V) dimming driver with programmable current for configurable fixture lumen outputs (UL listed, Class P)
- Overcurrent protection: 2.5KV
- Power factor: >0.90

### Certifications

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

### Packaging

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

### Warranty

- 5-year limited warranty.



## Ordering Logic

MRND-4-750-SD-35K-80-PW-CSW-HD01

| Series | Length                 | Direct Output <sup>1</sup>                                                                                                | Direct Distribution          | CCT                                                                                                        | CRI                                                  |
|--------|------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| MRND   |                        |                                                                                                                           | SD                           |                                                                                                            |                                                      |
|        | <b>XX</b> - Run Length | <b>250</b> - 250 LPF<br><b>500</b> - 500 LPF<br><b>750</b> - 750 LPF<br><b>1000</b> - 1000 LPF<br><b>XXX</b> - Custom LPF | <b>SD</b> - SatinIce Diffuse | <b>27K</b> - 2700K<br><b>30K</b> - 3000K<br><b>35K</b> - 3500K<br><b>40K</b> - 4000K<br><b>50K</b> - 5000K | <b>80</b> - 80 CRI<br><b>90</b> - 90 CRI (R9 50 min) |

| Finish <sup>2</sup>                       | Mounting                           | Circuiting                        | Emergency                                    | Remote Option <sup>8</sup>                 |
|-------------------------------------------|------------------------------------|-----------------------------------|----------------------------------------------|--------------------------------------------|
| <b>Standard Powder Coat</b>               | <b>Powered Canopy<sup>3</sup></b>  | <b>Canopy Surface<sup>4</sup></b> | <b>1C</b> - Single Circuit                   | <b>BLANK</b> - None                        |
| <b>PW</b> - White                         | <b>PCW</b> - Powered Canopy White  | <b>CSW</b> - Canopy Surface White | <b>MC</b> - Multiple Circuits <sup>5,6</sup> | <b>EC</b> - Emergency Circuit <sup>7</sup> |
| <b>PB</b> - Black                         | <b>PCB</b> - Powered Canopy Black  | <b>CSB</b> - Canopy Surface Black |                                              |                                            |
| <b>Premium</b>                            | <b>Canopy Recessed<sup>4</sup></b> | <b>T-Grid<sup>4</sup></b>         |                                              |                                            |
| <b>RALXXXX</b> - Powder Coat Gloss Finish | <b>CRW</b> - Canopy Recessed White | <b>TB1</b> - 9/16" Grid           |                                              |                                            |
|                                           | <b>CRB</b> - Canopy Recessed Black | <b>TB2</b> - 15/16" Grid          |                                              |                                            |
|                                           | <b>Canopy T-Grid<sup>4</sup></b>   | <b>TB3</b> - 9/16" Tegular        |                                              |                                            |
|                                           | <b>CTW</b> - Canopy T-Grid White   | <b>TB4</b> - 15/16" Tegular       |                                              |                                            |
|                                           | <b>CTB</b> - Canopy T-Grid Black   |                                   |                                              |                                            |

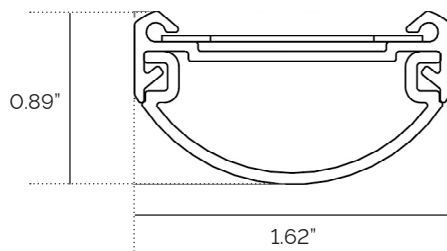
### Hyper Drive Circuit<sup>9,10</sup>

**HDXX** - Hyper Drive Circuit

### Ordering Notes

- 200 LPF min. output / 1500 LPF max. output.
- See page 5 for standard options.
- 120-277V driver included. 50W max. dual driver required.
- Must be ordered with Hyper Drive Remote Driver.
- Customer to specify number of zones and locations through factory submittal drawings.
- Multiple low and line control zones.
- Separate power, transfer devices provided by others.
- Specify quantity in 'X'. (ex: 3 batteries = 'E3')
- Not required with the Powered Canopy mounting.
- See pages 3-4 for more information.

## Dimensions



## Lumen Packages

| Length | Lumens | Input Wattage | LPW |
|--------|--------|---------------|-----|
| 4'     | 4000   | 34            | 118 |
| 8'     | 8000   | 65            | 123 |

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

## Hyper Drive Remote Power System

### Ordering Logic

HYPD-L8-NB-PW-U-DTZ-HD01

| Series | Size & Quantity <sup>1, 2, 3</sup> | Optional Emergency Battery <sup>4, 5</sup>               | Finish                                    | Voltage             |
|--------|------------------------------------|----------------------------------------------------------|-------------------------------------------|---------------------|
| HYPD   |                                    |                                                          |                                           | U                   |
|        | <b>SX</b> - 190W Small (2 max.)    | <b>NB</b> - No EM Battery                                | <b>Standard Powder Coat</b>               | <b>U</b> - 120-277V |
|        | <b>MX</b> - 300W Medium (4 max.)   | <b>#EMB6</b> - 6W EM Battery (Provided by IOTA/Bodine)   | <b>PW</b> - White                         |                     |
|        | <b>LX</b> - 600W Large (8 max.)    | <b>#EMB10</b> - 10W EM Battery (Provided by IOTA/Bodine) | <b>PB</b> - Black                         |                     |
|        |                                    | <b>#FCEMB10</b> - 10W EM Battery (Factory Choice)        | <b>Premium</b>                            |                     |
|        |                                    |                                                          | <b>RALXXXX</b> - Powder Coat Gloss Finish |                     |

| Options                                                                                                                                                                                                                                                                                                                                                                            | Hyper Drive Circuit                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specialty Drivers<sup>6, 7</sup></b><br><b>DT1</b> - eldoLED EcoDrive Dim to 1% (0-10V)<br><b>DTZ</b> - eldoLED SoloDrive Dim to 0.1% (0-10V)<br><b>PSRD</b> - Philips Sensor Ready (DALI) Driver<br><b>LDE1</b> - Lutron Hi-Lume EcoSystem LED Driver w/ Soft-on, Fade-to-Black<br><b>TW-A</b> - Tunable White, 0-10V<br><b>TW-EL</b> - eldoLED DUALdrive Tunable White (DALI) | <b>Sensors</b><br>Consult factory<br><br><b>Others</b><br><b>CP</b> - Chicago Plenum (CCEA)<br><b>RTS</b> - Remote Test Switch for Battery |

#### Ordering Notes

1. Replace 'X' with driver quantity.
2. One driver is required per direct only fixture (8' maximum length).
3. Consult factory for custom configurations and drivers not listed.
4. Replace '#' with battery quantity.

5. Each emergency battery reduces the driver quantity of the Hyper Drive.
6. Standard driver is 0-10V, dim to 1% output current.
7. Consult factory for additional driver options.

#### Limitations

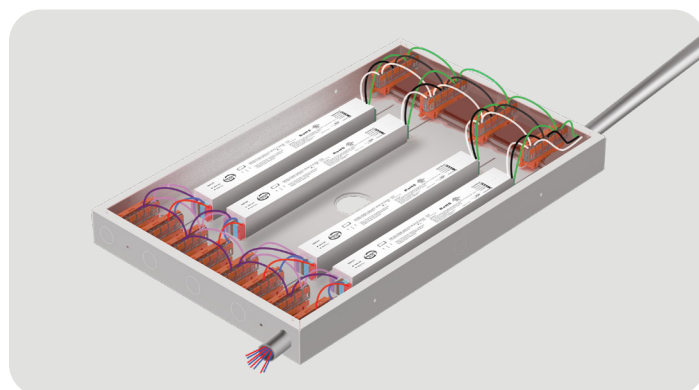
Reference chart for recommended maximum lengths of low voltage cable ran from Hyper Drive to fixture.

| Wire Gauge (AWG) | 18G | 35'  |
|------------------|-----|------|
|                  | 16G | 60'  |
|                  | 14G | 100' |
|                  | 12G | 150' |

## Configurations

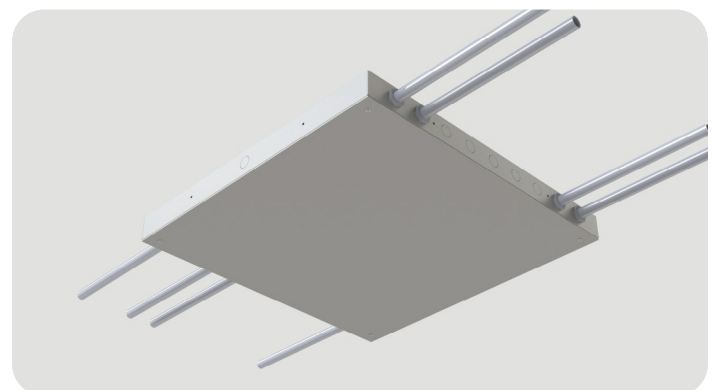
### M4 Configuration (Shown without front cover)

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



### L8 Configuration (Shown with front cover)

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

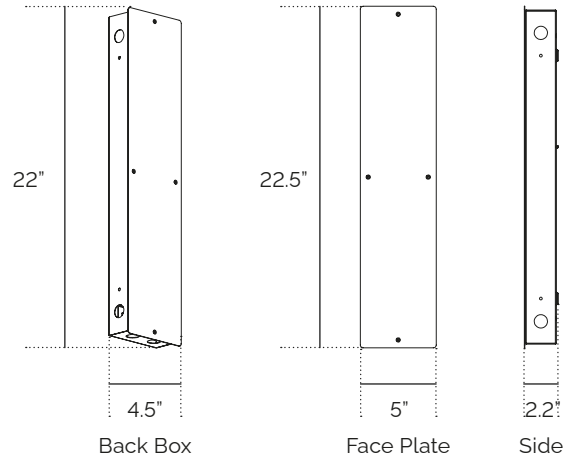


## Hyper Drive Remote Power System

### SX (Small Hyper Drive Remote Canopy)

190W / 2 Drivers Max.

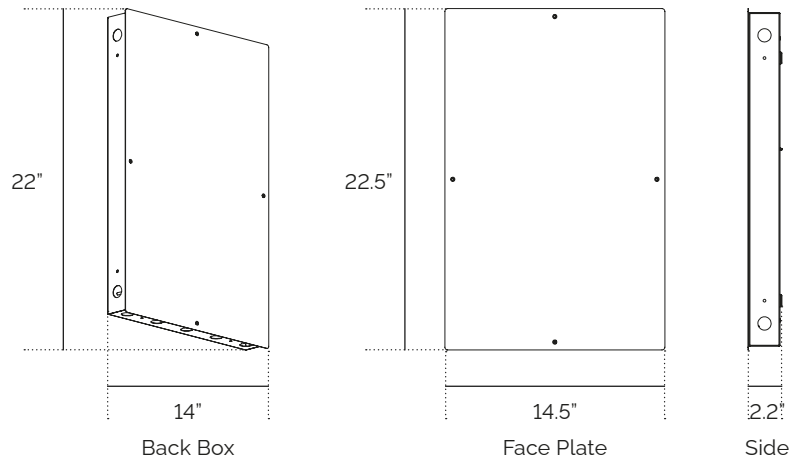
|                      |                    |
|----------------------|--------------------|
| Driver Form Factor   | Linear             |
| Input Rating         | 120-277V           |
| Outputs              | Up to 2 (190W max) |
| Max. Remote Distance | Up to 150' (45m)   |
| Knockouts            | 0.5" (x6)          |
| Battery              | Available          |



### MX (Medium Hyper Drive Remote Canopy)

300W / 4 Drivers Max.

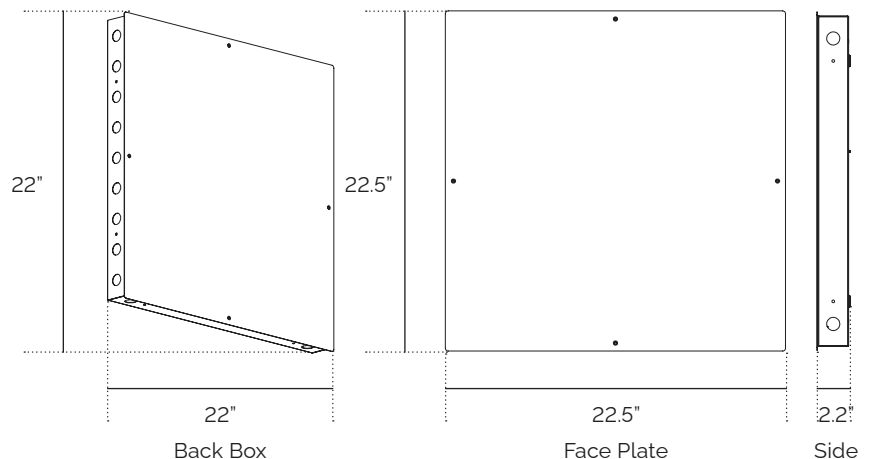
|                      |                    |
|----------------------|--------------------|
| Driver Form Factor   | Linear             |
| Input Rating         | 120-277V           |
| Outputs              | Up to 4 (300W max) |
| Max. Remote Distance | Up to 150' (45m)   |
| Knockouts            | 0.5" (x12)         |
| Battery              | Available          |



### LX (Large Hyper Drive Remote Canopy)

600W / 8 Drivers Max.

|                      |                    |
|----------------------|--------------------|
| Driver Form Factor   | Linear             |
| Input Rating         | 120-277V           |
| Outputs              | Up to 8 (600W max) |
| Max. Remote Distance | Up to 150' (45m)   |
| Knockouts            | 0.5" (x20)         |
| Battery              | Available          |



## Finishes

### Standard

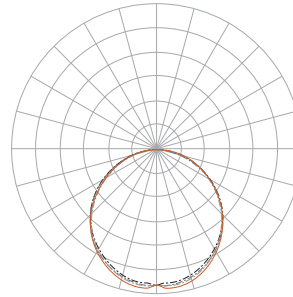


PW: White



PB: Black

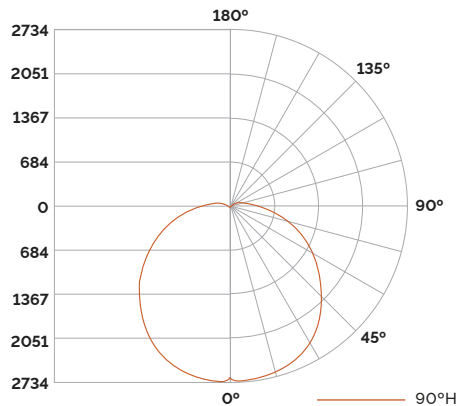
## Distribution



Direct: SatinIce Diffuse (SD)

## Performance

### MRND-8-1000-SD-35K-80



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

| Angles | Avg. 0° | Avg. 45° | Avg. 90° |
|--------|---------|----------|----------|
| 45°    | 23679   | 21045    | 21399    |
| 55°    | 22146   | 19201    | 19602    |
| 65°    | 20024   | 17180    | 17833    |
| 75°    | 16745   | 15477    | 16254    |
| 85°    | 11913   | 14905    | 15730    |

### Candela Table

| Vertical Angle | Horizontal Angle |      |      |      |      |
|----------------|------------------|------|------|------|------|
|                | 0                | 22.5 | 45   | 67.5 | 90   |
| 0°             | 2666             | 2666 | 2666 | 2666 | 2666 |
| 5°             | 2645             | 2627 | 2644 | 2674 | 2726 |
| 10°            | 2609             | 2589 | 2610 | 2642 | 2695 |
| 15°            | 2545             | 2524 | 2552 | 2589 | 2641 |
| 20°            | 2452             | 2432 | 2472 | 2514 | 2566 |
| 25°            | 2326             | 2311 | 2368 | 2418 | 2471 |
| 30°            | 2178             | 2168 | 2240 | 2302 | 2359 |
| 35°            | 2010             | 2007 | 2093 | 2165 | 2225 |
| 40°            | 1824             | 1831 | 1931 | 2012 | 2075 |
| 45°            | 1627             | 1646 | 1757 | 1853 | 1914 |
| 50°            | 1443             | 1464 | 1577 | 1683 | 1742 |
| 55°            | 1237             | 1266 | 1401 | 1513 | 1565 |
| 60°            | 1030             | 1065 | 1216 | 1341 | 1389 |
| 65°            | 827              | 869  | 1035 | 1161 | 1210 |
| 70°            | 619              | 683  | 862  | 991  | 1035 |
| 75°            | 427              | 516  | 707  | 834  | 874  |
| 80°            | 252              | 368  | 566  | 688  | 729  |
| 85°            | 106              | 245  | 443  | 562  | 599  |
| 90°            | 13               | 155  | 342  | 455  | 487  |

### Power

| Direct LPF | Total Lumens | Satin Diffuse (SD) |       |
|------------|--------------|--------------------|-------|
|            |              | LPW                | W/ft. |
| 300        | 2800         | 156                | 2     |
| 500        | 4259         | 156                | 3     |
| 750        | 6388         | 156                | 5     |
| 1000       | 8518         | 156                | 7     |

**NOTE:** 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

| CRI    | CCT   | 4' Length | 8' Length |
|--------|-------|-----------|-----------|
| 80 CRI | 3000K | 1.11      | 1.05      |
|        | 3500K | 1.05      | 1.00      |
|        | 4000K | 1.03      | 0.98      |
|        | 5000K | 1.02      | 0.97      |
| 90 CRI | 3000K | 1.17      | 1.11      |
|        | 3500K | 1.11      | 1.05      |
|        | 4000K | 1.08      | 1.03      |
|        | 5000K | 1.07      | 1.02      |

### Multiplier How-To

#### To determine CRI/CCT configuration wattage:

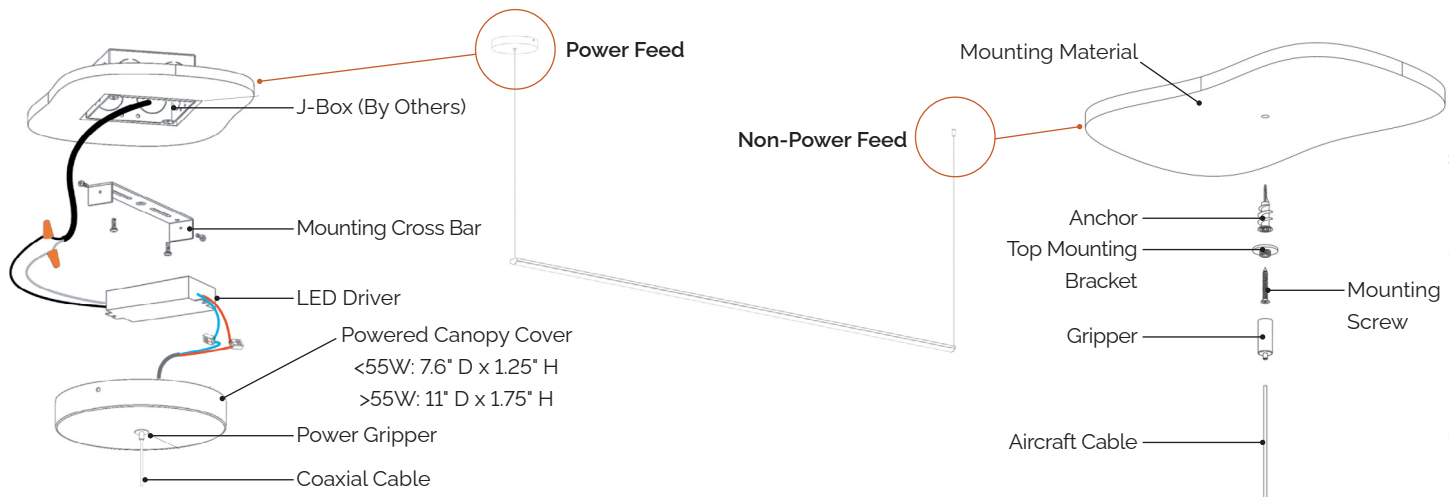
Choose wattage from Power matrix for desired optic and lumen output for 8' fixture length.

Wattage x Multiplier = New Configuration Wattage

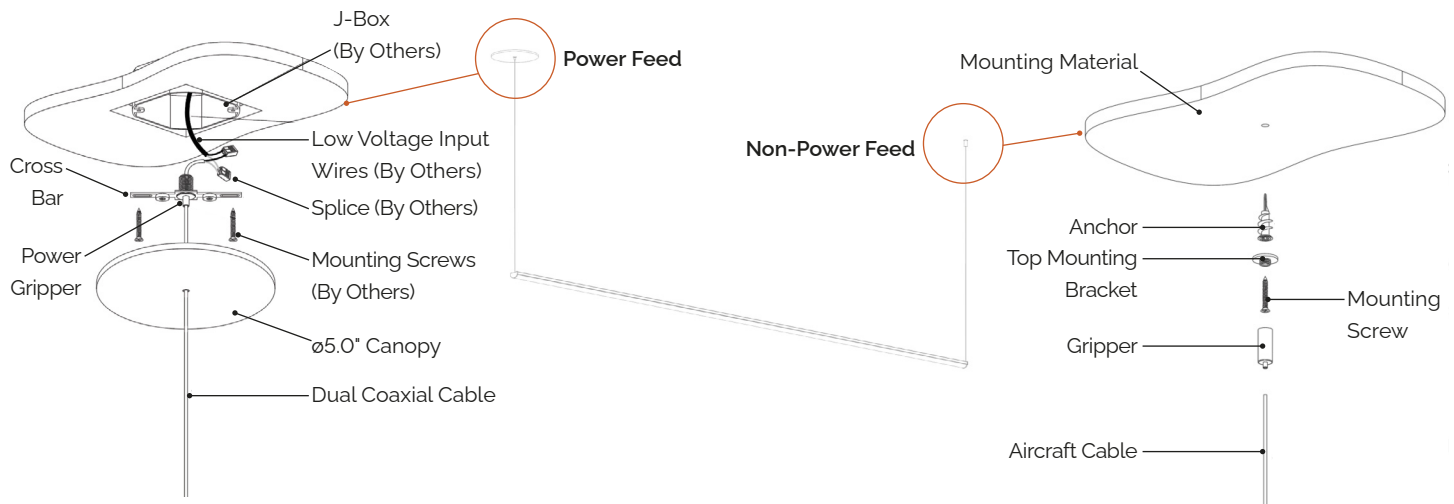
## Mounting

2' - 6' Fixtures require one (1) Non-Feed Mount. Fixtures larger than 6' require two (2) Non-Feed Mount.

### PCX (Powered Canopy with Included Driver)



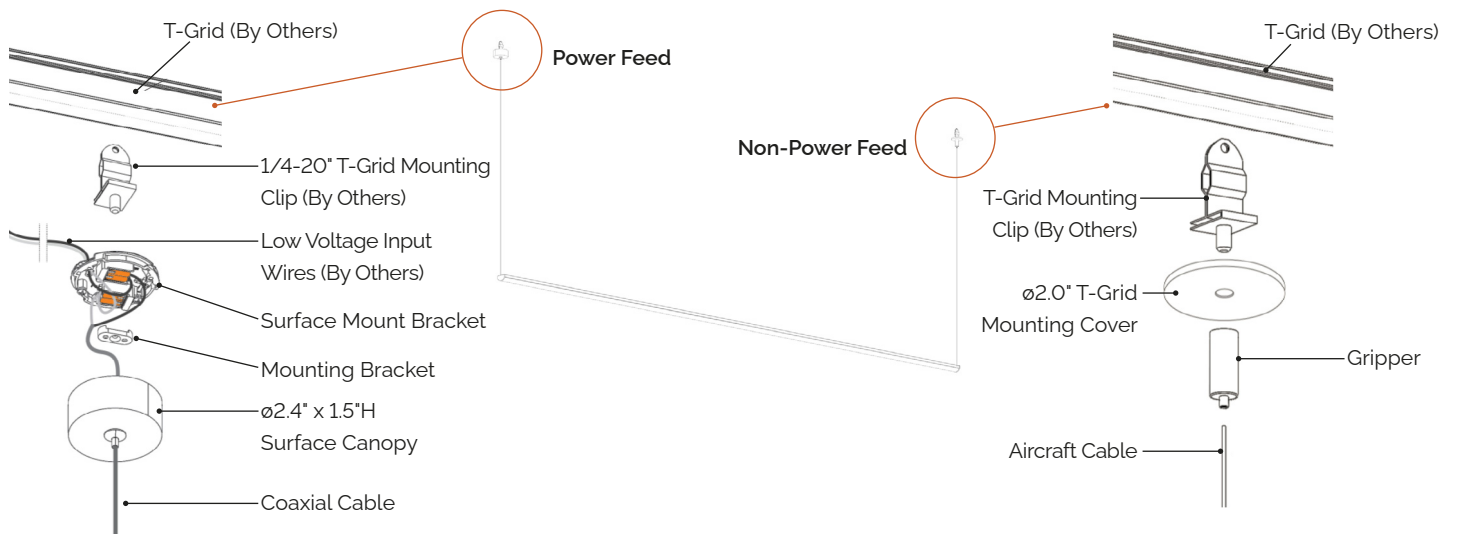
### CRX (Canopy Recessed) Requires Hyper Drive



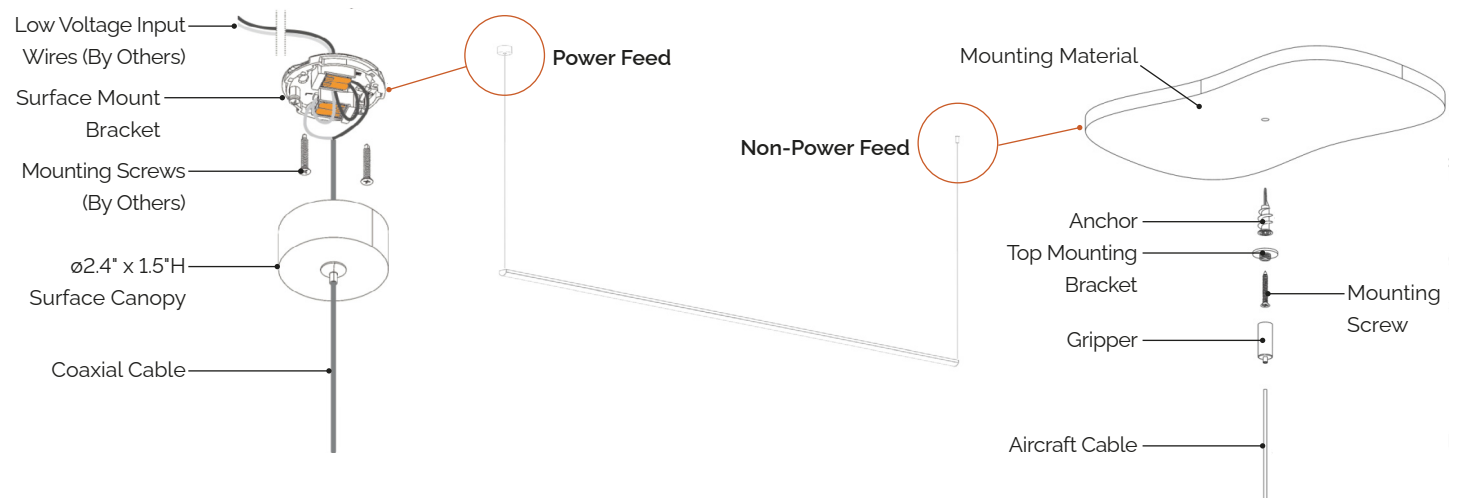
## Mounting

2' - 6' Fixtures require one (1) Non-Fed Mount. Fixtures larger than 6' require two (2) Non-Fed Mount.

### CTX (Canopy T-Grid) Requires Hyper Drive



### CSX (Canopy Surface) Requires Hyper Drive

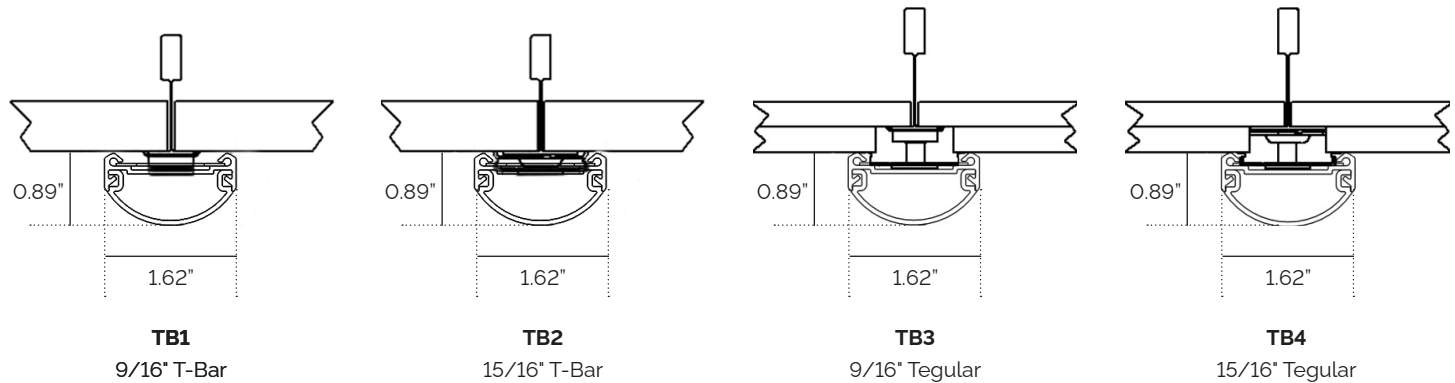
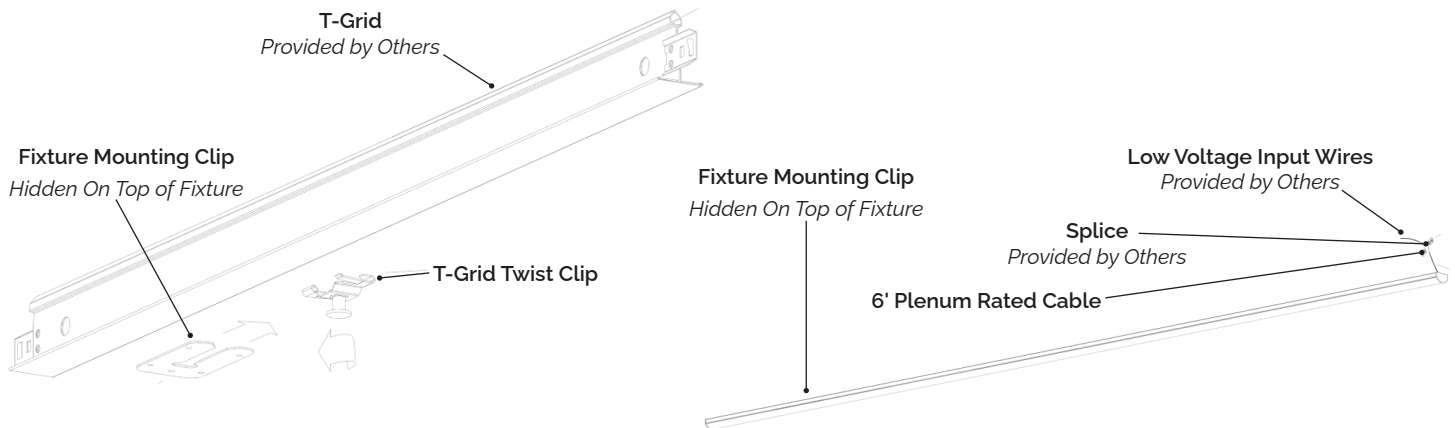


## Mounting

2' - 6' Fixtures require one (1) Non-Feed Mount. Fixtures larger than 6' require two (2) Non-Feed Mount.

### TBX (T-Grid)

Requires Hyper Drive



Submit With Order

# Bill of Materials Guide

How to use: Fill out the worksheet to specify your requirements for your configurations.  
Be sure to call out battery and sensor locations.

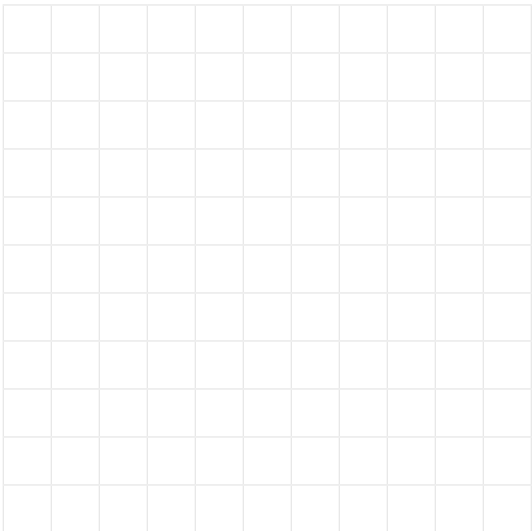
Refer to the run chart for standard run configurations on linear lengths. Consult factory for custom configurations.  
Use the order guide to create your BOM for you configuration.

**Submit this worksheet along with your order.**

## Order Guide

| Qty. | Type |  |
|------|------|--|
|      |      |  |
|      |      |  |
|      |      |  |
|      |      |  |
|      |      |  |
|      |      |  |
|      |      |  |
|      |      |  |
|      |      |  |

## Configuration



**NOTE:** Low voltage power transfer wire between fixture and Hyper Drive Remote Power System provided by others.

## Example

| Qty. | Type                                 |  |
|------|--------------------------------------|--|
| 3    | MRND-8-750-SD-35K-80-PW-CSW-HD01     |  |
| 2    | MRND-6-750-SD-35K-80-PW-CSW-HD01     |  |
| 1    | MRND-2-750-SD-35K-80-PW-CSW-HD01     |  |
| 1    | MRND-10-750-SD-35K-80-PW-CSW-HD01    |  |
| 1    | MRND-10-750-SD-35K-80-PW-CSW-E1-HD02 |  |
| 1    | MRND-10-750-SD-35K-80-PW-CSW-HD02    |  |
| 1    | HYPD-L5-NB-PW-DTZ-HD01               |  |
| 1    | HYPD-M2-1EMB6-PW-DTZ-HD02            |  |

## Example Configuration

