

## Shallow Beam Suspended Direct

### Key Features

- Extruded aluminum single piece housing
- Soft diffuse direct lighting
- Continuous lensing standard – runs up to 100'
- Light levels can be factory set
- 0-10V dimming to 1% is standard



## 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: 1.5" x 3.0"
- Nominal thickness: 0.06"

### 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 1/8" 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

- 0.080" 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

### Certifications

- Build America Buy America compliant
- Buy American Act compliant
- Intertek cETLus Listed
- DLC 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.

## Ordering Logic

SHAL-4-750-SD-35K-90-PW-CRW-1C-E1-HD01

| Series                                   | Length                              | Direct Output <sup>1</sup>    | Direct Distribution                      | CCT                                                     | CRI                                |
|------------------------------------------|-------------------------------------|-------------------------------|------------------------------------------|---------------------------------------------------------|------------------------------------|
| SHAL                                     |                                     |                               |                                          |                                                         |                                    |
|                                          | <b>XX</b> - Run Length              | <b>250</b> - 250 LPF          | <b>SD</b> - SatinIce Diffuse             | <b>27K</b> - 2700K                                      | <b>80</b> - 80 CRI                 |
|                                          | <b>SXX</b> - Symmetrical Run Length | <b>500</b> - 500 LPF          | <b>Drop Lens w/ Lit Ends<sup>2</sup></b> | <b>30K</b> - 3000K                                      | <b>90</b> - 90 CRI (R9 50 min)     |
|                                          |                                     | <b>750</b> - 750 LPF          | <b>DLE05</b> - 0.5"                      | <b>35K</b> - 3500K                                      |                                    |
|                                          |                                     | <b>1000</b> - 1000 LPF        | <b>DLE10</b> - 1.0"                      | <b>40K</b> - 4000K                                      |                                    |
|                                          | <b>XXX</b> - Custom LPF             |                               |                                          | <b>50K</b> - 5000K                                      |                                    |
|                                          |                                     |                               |                                          | <b>TW</b> - Tunable White <sup>3</sup><br>(2700K-6500K) |                                    |
| Finish <sup>4</sup>                      | Mounting                            | Circuiting                    | Emergency                                | Remote Option <sup>7</sup>                              | Hyper Drive Circuit <sup>8,9</sup> |
| <b>Standard Powder Coat</b>              | <b>Powered Canopy<sup>5</sup></b>   | <b>1C</b> - Single Circuit    | <b>BLANK</b> - None                      | <b>EX</b> - EM Battery Designated Fixture               | <b>HDXX</b> - Hyper Drive Circuit  |
| <b>PW</b> - White                        | <b>PCW</b> - Powered Canopy White   | <b>MC</b> - Multiple Circuits | <b>EC</b> - Emergency Circuit            |                                                         |                                    |
| <b>PB</b> - Black                        | <b>PCB</b> - Powered Canopy Black   |                               |                                          |                                                         |                                    |
| <b>PS</b> - Silver                       | <b>Canopy Recessed<sup>6</sup></b>  |                               |                                          |                                                         |                                    |
| <b>Premium</b>                           | <b>CRW</b> - Canopy Recessed White  |                               |                                          |                                                         |                                    |
| <b>RALXXX</b> - Powder Coat Gloss Finish | <b>CRB</b> - Canopy Recessed Black  |                               |                                          |                                                         |                                    |
| <b>PSFX</b> - Premium Stock Finish       | <b>Canopy T-Grid<sup>6</sup></b>    |                               |                                          |                                                         |                                    |
| <b>Custom Powder Coat</b>                | <b>CTW</b> - Canopy T-Grid White    |                               |                                          |                                                         |                                    |
| <b>PO</b> - Powder Other                 | <b>CTB</b> - Canopy T-Grid Black    |                               |                                          |                                                         |                                    |
|                                          | <b>Canopy Surface<sup>6</sup></b>   |                               |                                          |                                                         |                                    |
|                                          | <b>CSW</b> - Canopy Surface White   |                               |                                          |                                                         |                                    |
|                                          | <b>CSB</b> - Canopy Surface Black   |                               |                                          |                                                         |                                    |

### Ordering Notes

- 200 LPF min. output / 1500 LPF max. output.
- Seamless continuous lens unavailable for Drop Lens options.
- Tunable White Driver must be specified in options.
- See page 5 for standard and premium options.
- 120-277V driver included. 50W max. dual driver required.
- Must be ordered with Hyper Drive Remote Driver.
- Specify quantity in 'X'. (ex: 3 batteries = 'E3')
- Not required with the Powered Canopy mounting.
- See pages 3-4 for more information.

## 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 |
|                                                                                                                                                                                                                                                                                                                                                                                    | <b>HDXX</b> - Hyper Drive Circuit                                                                                                          |

#### 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.

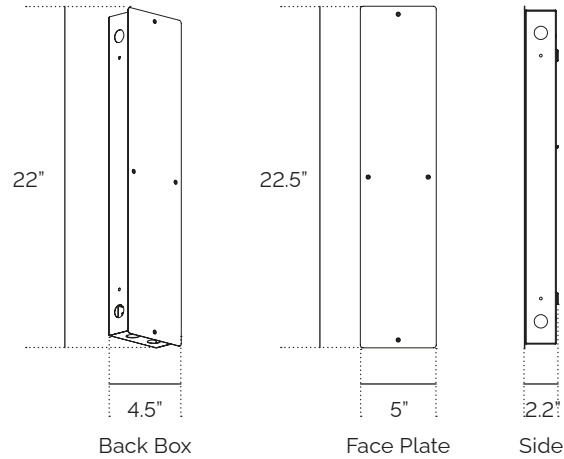


## Hyper Drive Remote Power System

### SX (Small Hyper Drive Remote Canopy)

190W / 2 Drivers Max.

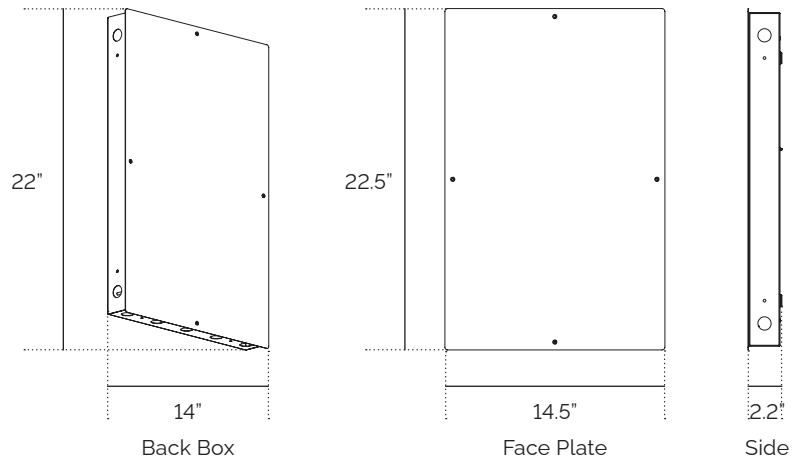
|                      |                    |
|----------------------|--------------------|
| Driver Form Factor   | Linear             |
| Input Rating         | 120-277V           |
| Outputs              | Up to 2 (190W max) |
| Max. Remote Distance | Up to 150' (45m)   |
| Knockouts            |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



### MX (Medium Hyper Drive Remote Canopy)

300W / 4 Drivers Max.

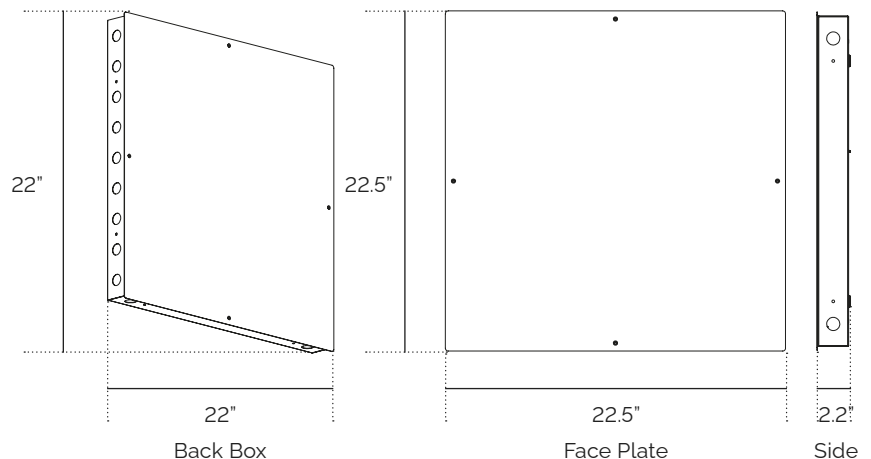
|                      |                    |
|----------------------|--------------------|
| Driver Form Factor   | Linear             |
| Input Rating         | 120-277V           |
| Outputs              | Up to 4 (300W max) |
| Max. Remote Distance | Up to 150' (45m)   |
| Knockouts            |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



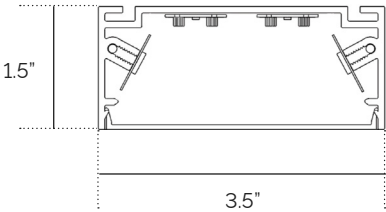
### LX (Large Hyper Drive Remote Canopy)

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          |



Dimensions

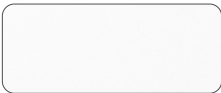


Diffusing



Finishes

Standard



PW: White



PB: Black



PS: Silver

Premium Stock



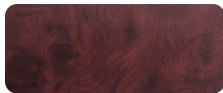
PSF001: Wood 1



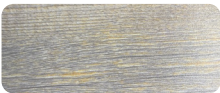
PSF002: Wood 2



PSF003: Wood 3



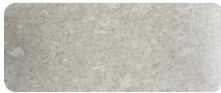
PSF004: Wood 4



PSF005: Wood 5



PSF006: Wood 6



PSF007: Stone 1



PSF008: Stone 2

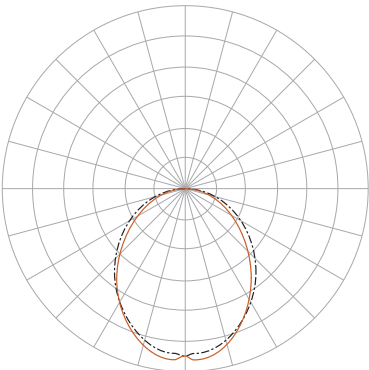


PSF009: Stone 3

**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.

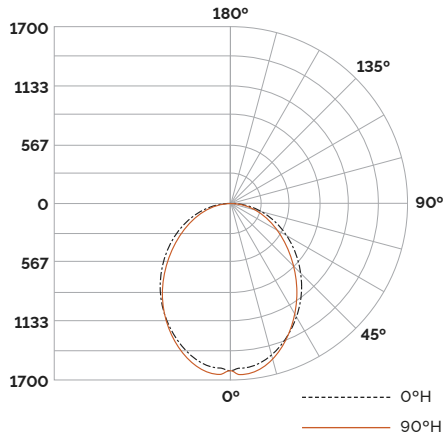
Distribution



Direct: SatinIce Diffuse (SD)

## Performance

### SHAL-X-1000-SD (80+ CRI)



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

| Angles | Avg. 0° | Avg. 45° | Avg. 90° |
|--------|---------|----------|----------|
| 45     | 38908   | 37508    | 36548    |
| 55     | 37012   | 35568    | 34838    |
| 65     | 34443   | 32866    | 31959    |
| 75     | 31102   | 29125    | 26942    |
| 85     | 27230   | 23857    | 19189    |

| CCT   | Length | Lumens | Wattage | LPW |
|-------|--------|--------|---------|-----|
| 2700K | 4'     | 4000   | 45      | 88  |
|       | 8'     | 8000   | 86      | 92  |
| 3000K | 4'     | 4000   | 43      | 93  |
|       | 8'     | 8000   | 82      | 97  |
| 3500K | 4'     | 4000   | 40      | 98  |
|       | 8'     | 8000   | 78      | 102 |
| 4000K | 4'     | 4000   | 40      | 100 |
|       | 8'     | 8000   | 76      | 104 |
| 5000K | 4'     | 4000   | 39      | 101 |
|       | 8'     | 8000   | 76      | 105 |

### Zonal Lumen Summary

| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 1227.4 | 28.3%       |
| 0-40   | 1984.3 | 45.8%       |
| 0-60   | 3435.2 | 79.3%       |
| 60-90  | 898.1  | 20.7%       |
| 70-100 | 382.5  | 8.8%        |
| 90-120 | 0      | 0%          |
| 0-90   | 4333.3 | 100%        |
| 90-180 | 0      | 0%          |
| 0-180  | 4333.3 | 100%        |

### Candela Table

| Vertical Angle | Horizontal Angle |      |      |      |      |
|----------------|------------------|------|------|------|------|
|                | 0                | 22.5 | 45   | 67.5 | 90   |
| 0              | 1615             | 1615 | 1615 | 1615 | 1615 |
| 5              | 1649             | 1617 | 1598 | 1589 | 1595 |
| 10             | 1626             | 1592 | 1573 | 1561 | 1565 |
| 15             | 1584             | 1549 | 1529 | 1515 | 1518 |
| 20             | 1524             | 1486 | 1470 | 1452 | 1453 |
| 25             | 1448             | 1413 | 1398 | 1377 | 1375 |
| 30             | 1361             | 1325 | 1312 | 1290 | 1285 |
| 35             | 1261             | 1227 | 1217 | 1194 | 1187 |
| 40             | 1152             | 1121 | 1113 | 1092 | 1086 |
| 45             | 1039             | 1008 | 1001 | 984  | 976  |
| 50             | 920              | 892  | 886  | 871  | 865  |
| 55             | 801              | 777  | 770  | 760  | 754  |
| 60             | 677              | 655  | 647  | 640  | 634  |
| 65             | 550              | 532  | 524  | 517  | 510  |
| 70             | 425              | 411  | 402  | 393  | 385  |
| 75             | 304              | 294  | 285  | 274  | 263  |
| 80             | 190              | 184  | 176  | 164  | 155  |
| 85             | 90               | 83   | 78   | 69   | 63   |
| 90             | 0                | 0    | 0    | 0    | 0    |

## 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<br>(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)

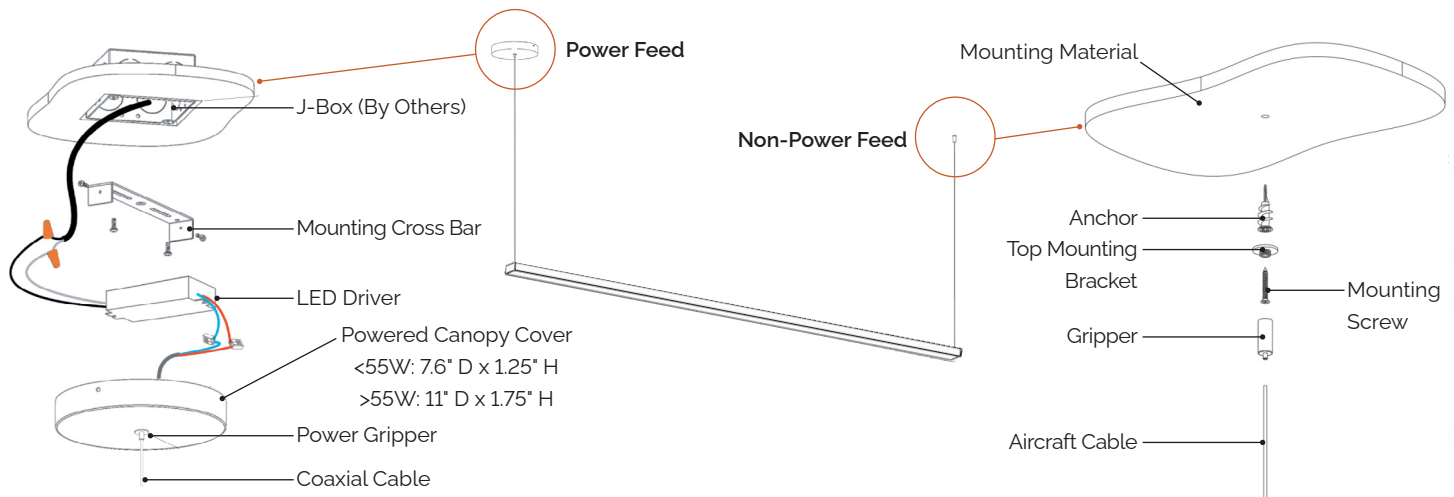
The construction of SXX (y') is to build with equal length fixtures. The xx indicates the run length. The y' indicates the fixture length used to create the run. Please indicate this on your P.O. when placing your order.

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

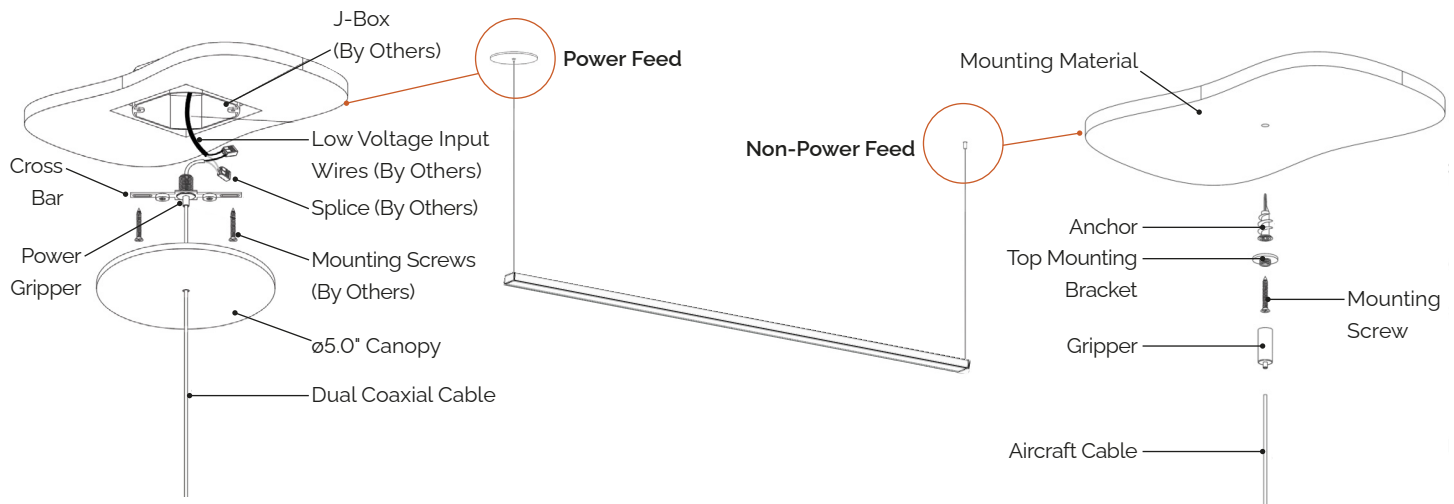
## Mounting

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

### PCX (Powered Canopy with Included Driver)



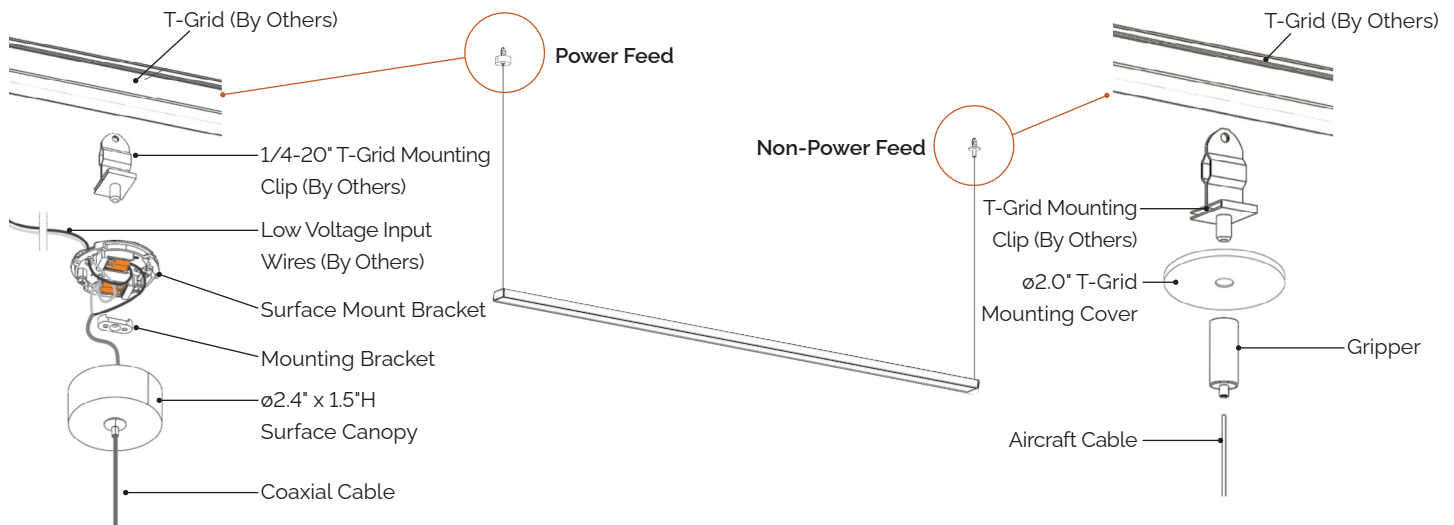
### CRX (Canopy Recessed) Requires Hyper Drive



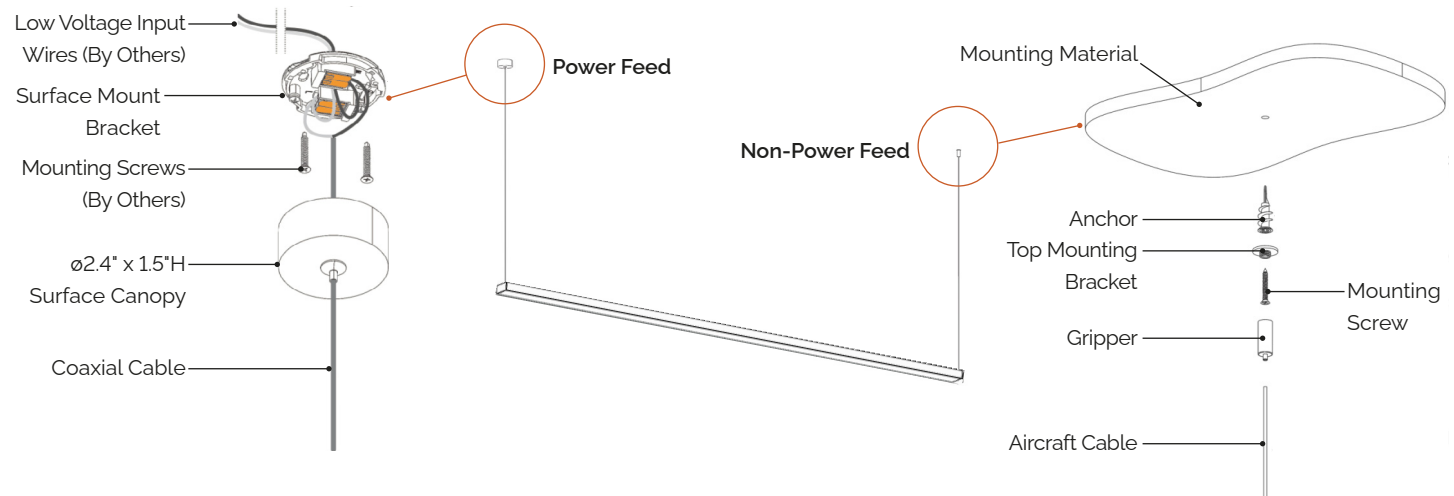
## Mounting

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



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.

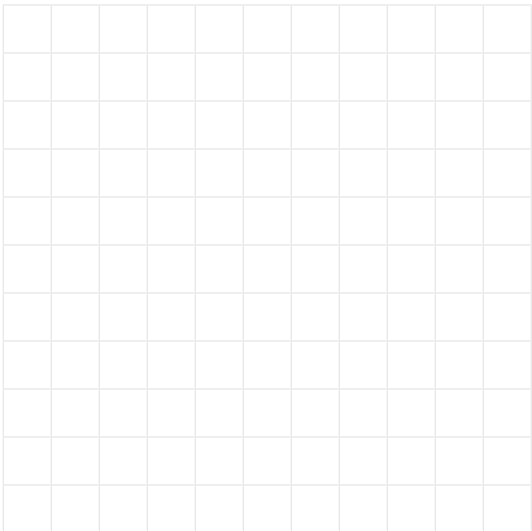
Refer to the run chart for standard run configurations on linear lengths. Consult factory for custom configurations.  
Use the order guide to create your BOM for you configuration.

**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    | MBEAMDI-8-750-750-SD-SD-35K-80-PW-CSW-HD01    |  |
| 1    | MBEAMDI-6-750-750-SD-SD-35K-80-PW-CSW-HD01    |  |
| 1    | MBEAMDI-2-750-750-SD-SD-35K-80-PW-CSW-HD01    |  |
| 1    | MBEAMDI-6-750-750-SD-SD-35K-80-PW-CSW-E1-HD02 |  |
| 1    | HYPD-L8-NB-R-PW-DTZ-HD01                      |  |
| 1    | HYPD-L6-1EMB6-R-PW-DTZ-HD01                   |  |

### Example Configuration

