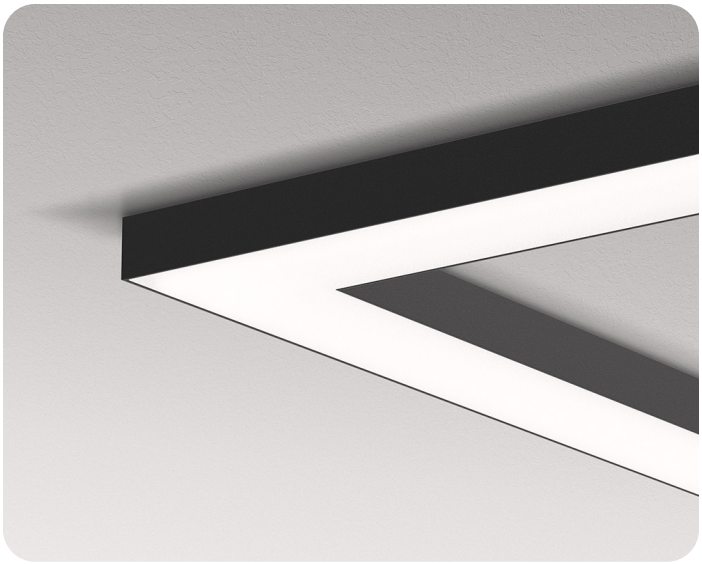
STARTEK
ARCHITECTURAL LIGHTING

| | | | |
|---|---|---|---|
| Rep/Agent | | Type | |
| Project | | | |
| Order No. | | Date | |

# Shallow Beam Shape
## Surface



### 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
- 120-277V for power enclosure
- Three power choices of Hyper Drive remote power system

5 Year Warranty · BABA Compliant · BAA Compliant · Intertek · RoHS Compliant · Declare.

## 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: 3.5" x 1.5"
- Nominal thickness: 0.08"

### 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 1/16" 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

- 0.060" 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 660 lm (6W) or up to 1100 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
- 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-4X6RECT-750-SD-35K-90-PW-SM-1C-E1-HD01

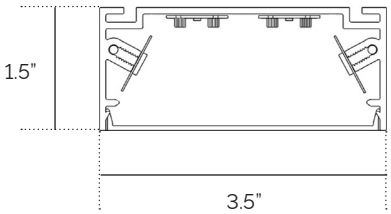
| Series | Length[1] | Direct Output[2] | Direct Distribution | CCT | CRI |
|---|---|---|---|---|---|
| SHAL | | | | | |
| | **_X_RECT -** Rectangle | **250 -** 250 LPF | **SD -** Satinlce Diffuse | **27K -** 2700K | **80 -** 80 CRI |
| | **_X_L -** L-Shape | **500 -** 500 LPF | **WD -** Wide Diffuse | **30K -** 3000K | **90 -** 90 CRI (R9 50 min) |
| | **_X_X_U -** U-Shape | **750 -** 750 LPF | **Drop Lens w/ Lit Ends[3]** | **35K -** 3500K | |
| | | **1000 -** 1000 LPF | **DLE05 -** 0.5" | **40K -** 4000K | |
| | | **XXX -** Custom LPF | **DLE10 -** 1.0" | **50K -** 5000K | |
| | | | | **TW -** Tunable White[4] (2700K-6500K) | |

| Finish[4] | Mounting | Circuiting | Remote Option[5] | Hyper Drive Circuit[6] |
|---|---|---|---|---|
| | | 1C | | |
| **Standard Powder Coat** | **SM -** Surface Mount | **1C -** Single Circuit | **EX -** EM Battery Designated Fixture | **HDXX -** Hyper Drive Circuit |
| **PW -** White | **TBX -** T-Grid | | | |
| **PB -** Black | | | | |
| **PS -** Silver | | | | |
| **Premium** | | | | |
| **RALXXXX -** Powder Coat Gloss Finish | | | | |
| **PSFX -** Premium Stock Finish | | | | |

**Ordering Notes**

1. 200 LPF min. output / 1000 LPF max. output.
2. Seamless continuous lens unavailable for Drop Lens options.
3. Tunable White Driver must be specified in options.
4. See page 5 for standard options.
5. Specify quantity in 'X'. (ex: 3 batteries = 'E3')
6. See pages 3-4 for more information.

## Dimensions




## Diffusing



**FL**
Flush



**DLE05**
0.5" Height



**DLE10**
1.0" Height


The information in this document is subject to change without notice.
Contact STARTEK for most up to date product details.

# Hyper Drive Remote Power System

## Ordering Logic

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

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

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

**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**

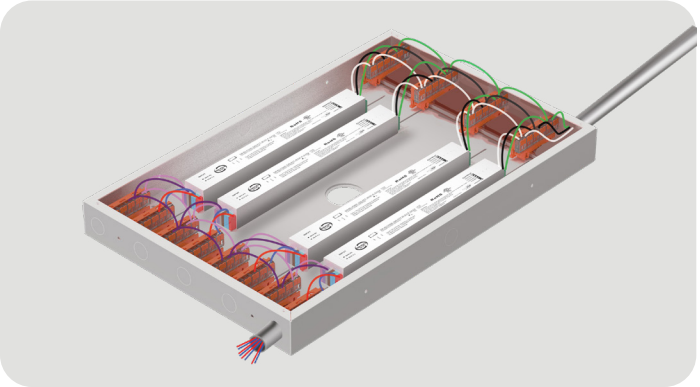
Reference chart for recommended maximum lengths of low voltage cable ran from Hyper Drive to fixture.

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

## Configurations

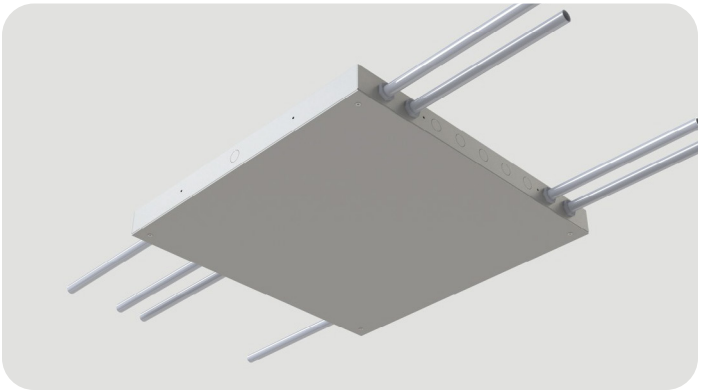
### M4 Configuration *(Shown without front cover)*

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.



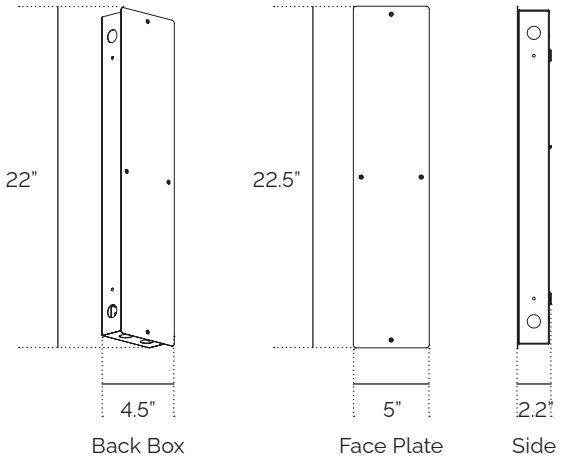

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# **Hyper Drive** Remote Power System

## SX (Small Hyper Drive Remote Canopy)

190W / 2 Drivers Max.

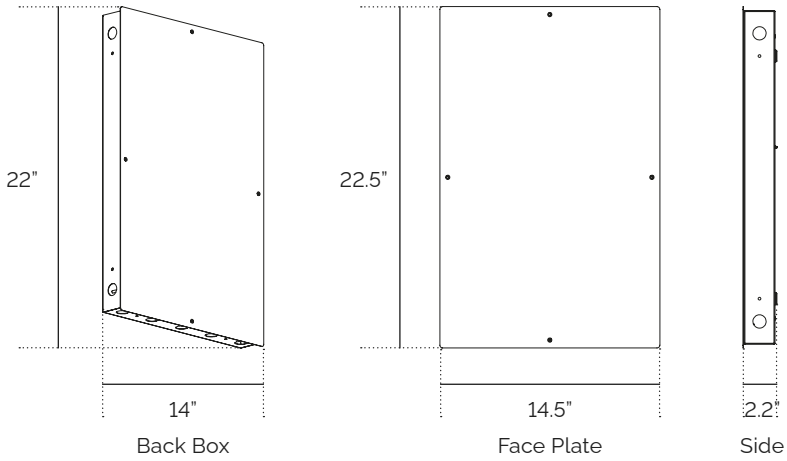
| | |
|---|---|
| **Driver Form Factor** | Linear |
| **Input Rating** | 120-277V |
| **Outputs** | Up to 2 (190W max) |
| **Max. Remote Distance** | Up to 150' (45m) |
| **Knockouts** | 0.5" (x6) |
| **Battery** | Available |




## MX (Medium Hyper Drive Remote Canopy)

300W / 4 Drivers Max.

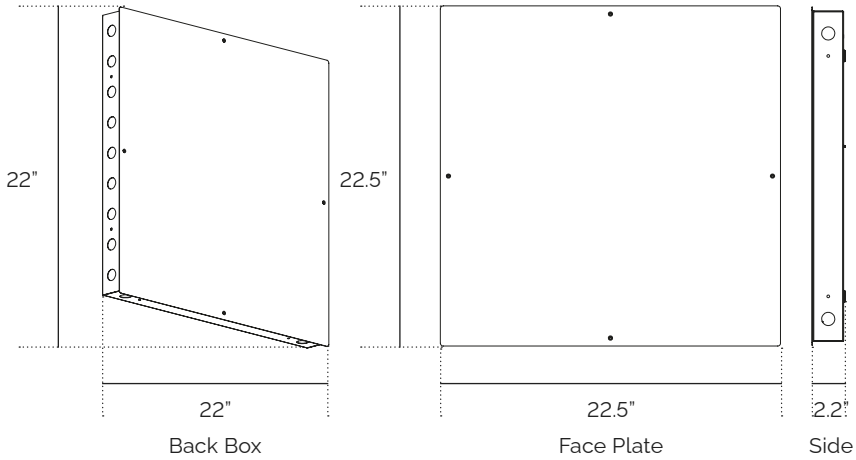
| | |
|---|---|
| **Driver Form Factor** | Linear |
| **Input Rating** | 120-277V |
| **Outputs** | Up to 4 (300W max) |
| **Max. Remote Distance** | Up to 150' (45m) |
| **Knockouts** | 0.5" (x12) |
| **Battery** | Available |




## 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

**PS:** Silver

## Premium Stock



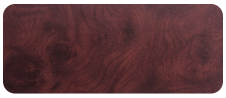
**PSF001:** Wood 1



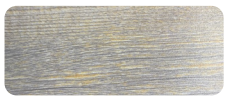
**PSF002:** Wood 2



**PSF003:** Wood 3



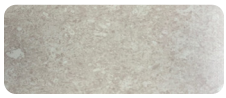
**PSF004:** Wood 4



**PSF005:** Wood 5



**PSF006:** Wood 6



**PSF007:** Stone 1



**PSF008:** Stone 2



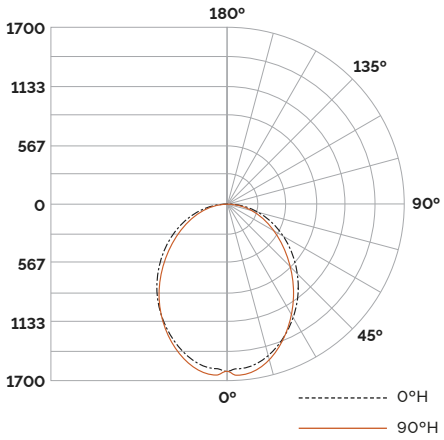
**PSF009:** Stone 3

**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.

# Performance

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




| 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 |

## 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 |

## 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% |

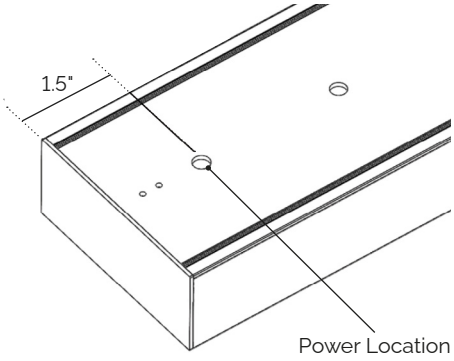
## Candela Table

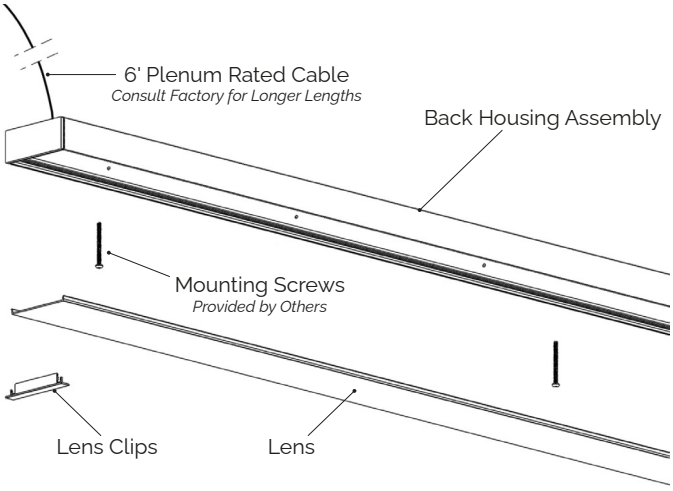
| Vertical Angle | Horizontal Angle | | | | |
|---|---|---|---|---|---|
| | 0 | 22.5 | 45 | 67.5 | 90 |
| 0 | 1615 | 1615 | 1615 | 1615 | 1615 |
| 5 | 1649 | 1617 | 1598 | 1589 | 1595 |
| 10 | 1626 | 1592 | 1573 | 1561 | 1565 |
| 15 | 1584 | 1549 | 1529 | 1515 | 1518 |
| 20 | 1524 | 1486 | 1470 | 1452 | 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 |

# Mounting

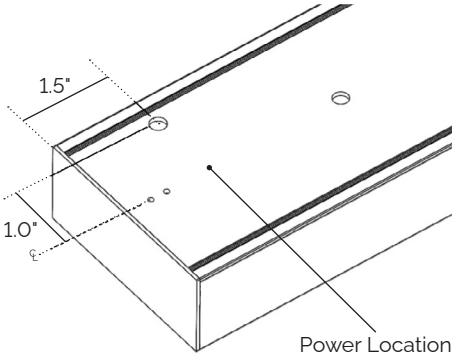
## SM (Surface Mount)

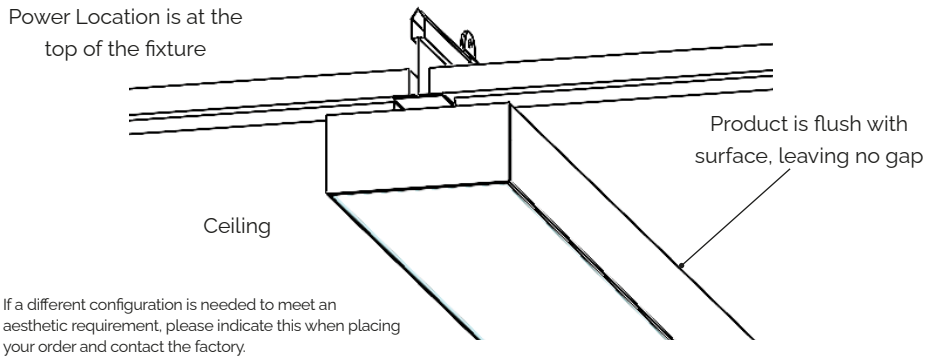
**NOTE:** The standard construction of run lengths follows the logic of the table below. Consult factory for additional information.



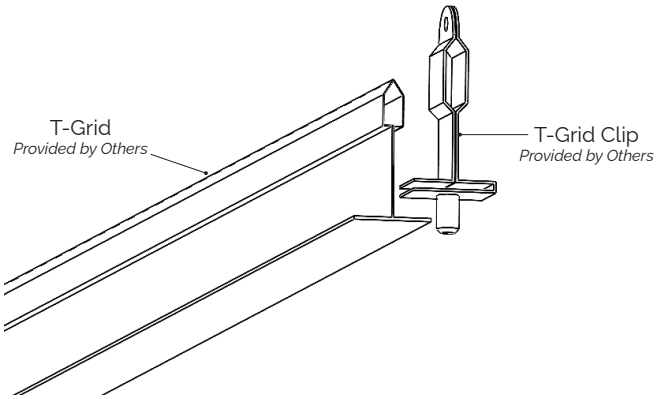



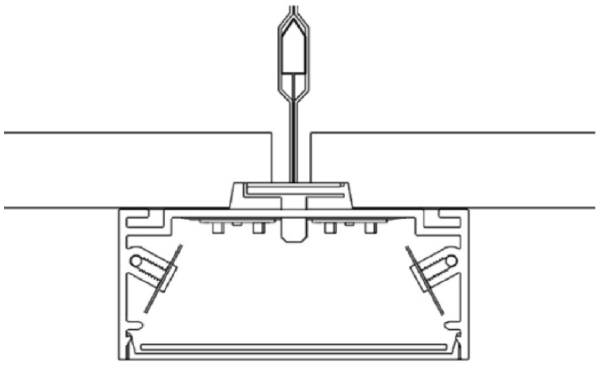

## TBX (T-Grid)




If a different configuration is needed to meet an aesthetic requirement, please indicate this when placing your order and contact the factory.

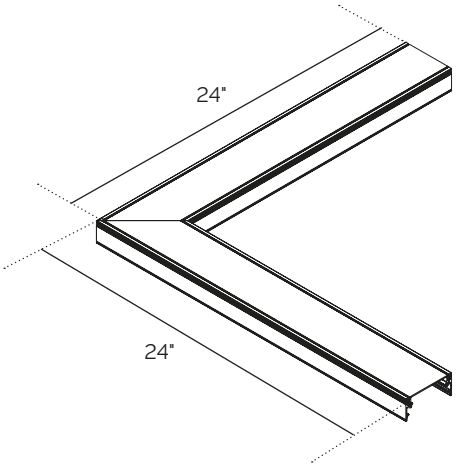


# Shape Configuration

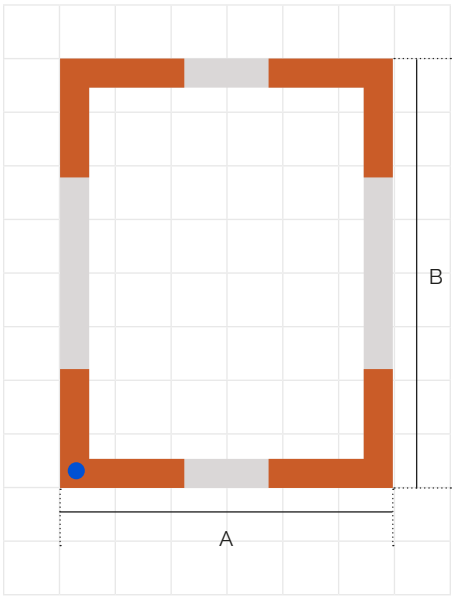
## Joint Shape Configuration with Miter Cuts

Example: Standard stock 24" x 24" joint configurations are provided as shown below.



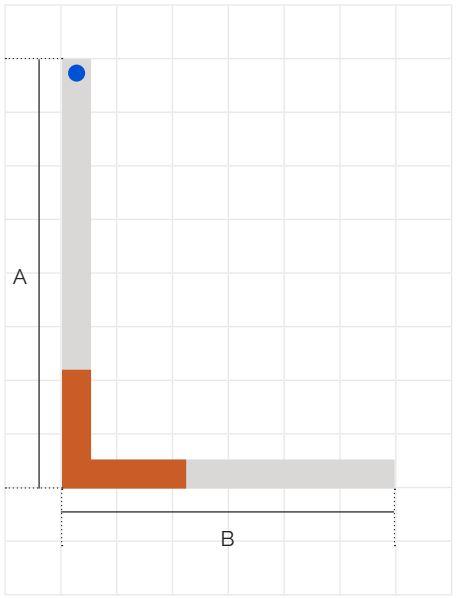

### Rectangle (_X_RECT)

Provide AxB dimensions



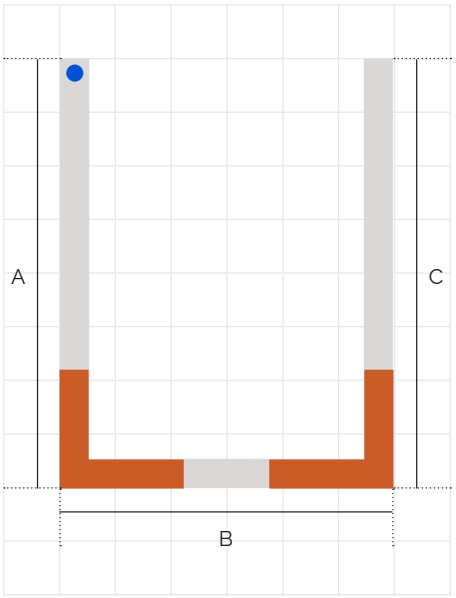

### L-Shape (_X_L)

Provide AxB dimensions




### U-Shape (_X_X_U)

Provide AxBxC dimensions




● Power Location


The information in this document is subject to change without notice.
Contact STARTEK for most up to date product details.

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

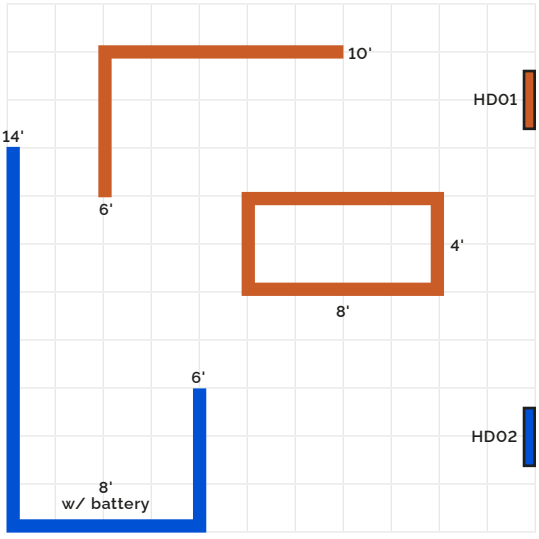


**NOTE:** Low voltage power transfer wire between fixture and Hyper Drive Remote Power System provided by others.

## Example

| Qty. | Type |
|---|---|
| 1 | SHAL-8X4RECT-750-SD-35K-90-PW-SM-1C-HD01 |
| 1 | SHAL-10X6L-750-SD-35K-90-PW-SM-1C-HD01 |
| 1 | SHAL-14X8X6U-750-SD-35K-90-PW-SM-1C-E1-HD01 |
| 1 | HYPD-M4-NB-PW-DTZ-HD01 |
| 1 | HYPD-L7-1EMB6-PW-DTZ-HD02 |

## Example Configuration





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