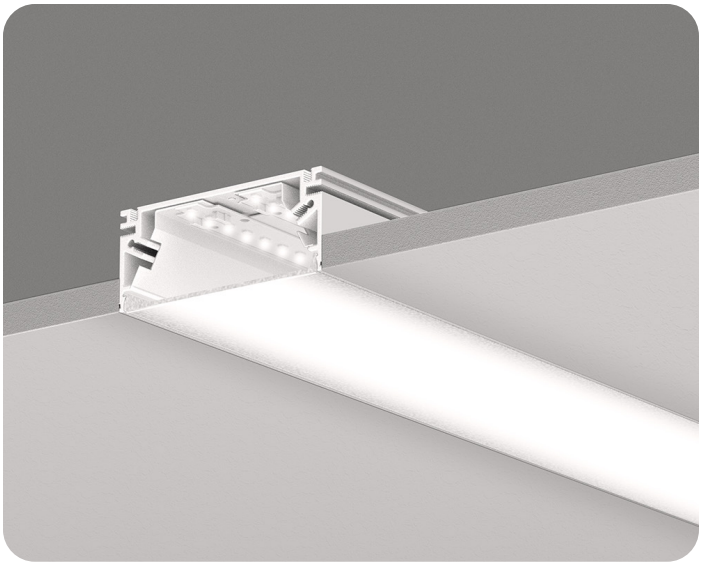
STARTEK
ARCHITECTURAL LIGHTING

Rep/Agent		Type	
Project			
Order No.		Date	

Shallow Beam Recessed



Key Features

- Extruded aluminum single piece housing
- Soft diffuse direct lighting
- Continuous lensing standard – runs up to 100'
- 2', 4', 6' and 8' individual units or continuous rows
- 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: 3.55" x 1.5"
- Nominal thickness: 0.080"

Finish

- Powder coated
- Colors: White or Black 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 $\frac{1}{16}$" increments.
- Using internal joiners, sections can be joined to form longer, continuous rows.
- Field Fit allows for field adjustments up to 6" to the overall run lengths.

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 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.

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Ordering Logic

RSHAL-4-750-SD-35K-90-PW-TBX-1C-E1-HD01

Series	Length	Direct Output[1]	Direct Distribution	CCT	CRI
RSHAL					
	XX - Run Length	**250 -** 250 LPF	**SD -** Satinlce Diffuse	**27K -** 2700K	**80 -** 80 CRI
	SXX - Symmetrical Run Length	**500 -** 500 LPF	**WD -** Wide Diffuse	**30K -** 3000K	**90 -** 90 CRI (R9 50 min)
		750 - 750 LPF	**Drop Lens w/ Lit Ends[2]**	**35K -** 3500K	
		1000 - 1000 LPF	**DLE05 -** 0.5"	**40K -** 4000K	
		XXX - Custom LPF	**DLE10 -** 1.0"	**50K -** 5000K	

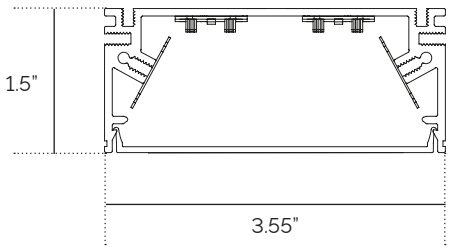
Finish[4]	Mounting		Circuiting	Options	Hyper Drive Circuit[10, 11]
			1C		
Standard Powder Coat	**T-Grid**	**Spackle Flange[4]**	**1C -** Single Circuit	**EX -** EM Battery Designated Fixture[5, 7]	**HDXX -** Hyper Drive Circuit
PW - White	**TBX -** 9/16" Grid 15/16" Grid	**SF -** Screw/Rod Mount		**TP -** Top Power[8]	
PB - Black	**TEG9 -** 9/16" Grid (Tegular Tile)	**SFY -** Yoke Mount		**TPBXX** - Top Power w/ Battery[8, 9]	
Premium	**TEG15 -** 15/16" Grid (Tegular Tile)	**Trimless[4]**		**FF3 -** +/-3" Field Fit	
RALXXXX - Powder Coat Gloss Finish	**Cosmetic Bezel[4, 5]**	**TR -** Screw/Rod Mount		**FF6 -** +/-6" Field Fit	
Custom Powder Coat	**CB -** Screw/Rod Mount				
PO - Powder Other	**CBY -** Yoke Mount				

Ordering Notes

1. 200 LPF min. output / 1000 LPF max. output.
2. Seamless continuous lens unavailable for Drop Lens options.
3. See page 5 for standard options.
4. Must be ordered with either Top Power or Hyper Drive Remote Driver.
5. Must be ordered with Hyper Drive Remote Driver.
6. Bezel color will match fixture color unless otherwise specified, consult factory for options.
7. Specify quantity in 'X'. (ex: 3 batteries = 'E3')
8. Only available with TBX configuration.
9. Specify battery wattage (6W, 10W, or 14W) in 'XX'.
10. Not required with the Top Power (TP) configuration.
11. See pages 3-4 for more information.

⚠ Drawing Required With Order Submission. See Page 12.

Dimensions



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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

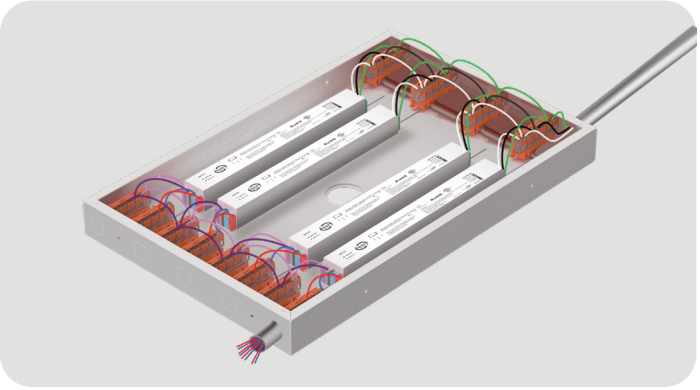
Reference chart for recommended maximum lengths of low voltage cable ran from Hyper Drive to fixture.

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

Configurations

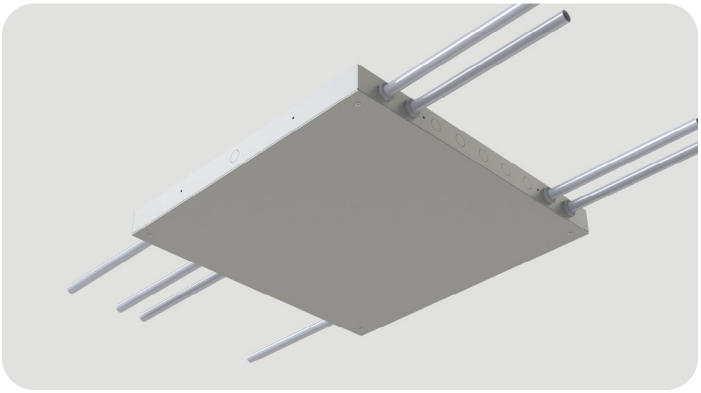
M4 Configuration *(Shown without front cover)*

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.



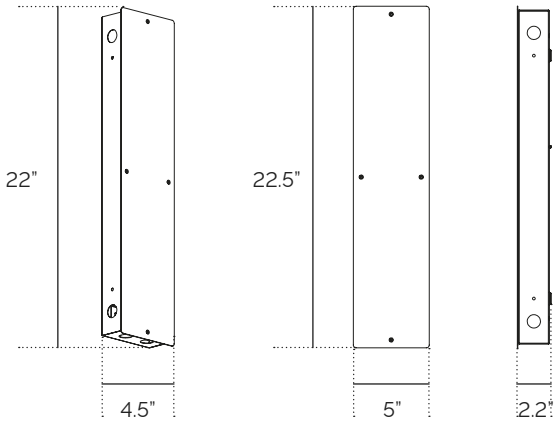
The information in this document is subject to change without notice.
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Hyper Drive Remote Power System

SX (Small Hyper Drive Remote Canopy)

190W / 2 Drivers Max.

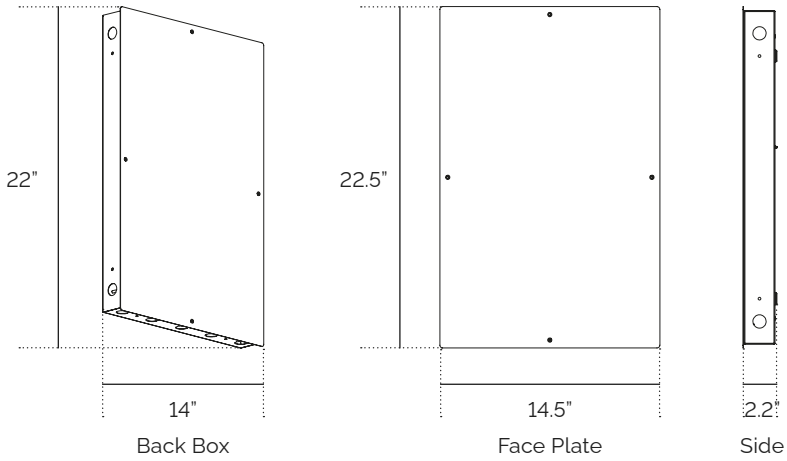
Driver Form Factor	Linear
Input Rating	120-277V
Outputs	Up to 2 (190W max)
Max. Remote Distance	Up to 150' (45m)
Knockouts	0.5" (x6)
Battery	Available



MX (Medium Hyper Drive Remote Canopy)

300W / 4 Drivers Max.

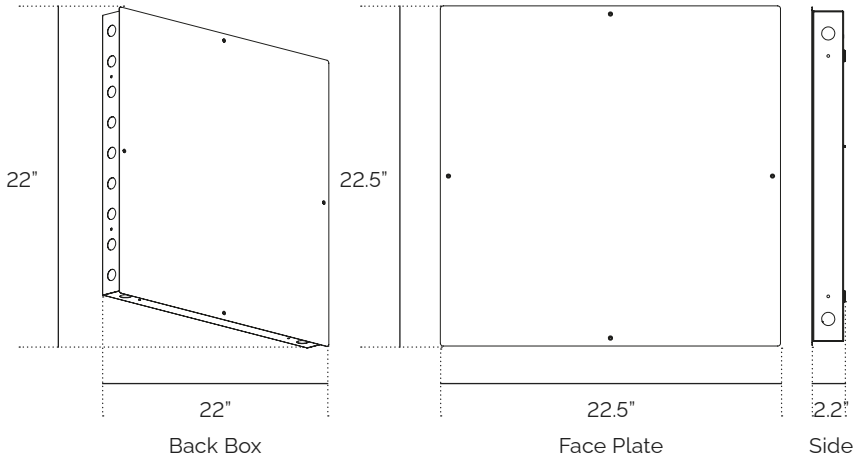
Driver Form Factor	Linear
Input Rating	120-277V
Outputs	Up to 4 (300W max)
Max. Remote Distance	Up to 150' (45m)
Knockouts	0.5" (x12)
Battery	Available



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



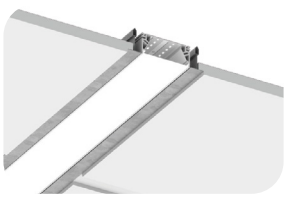
Finishes

Standard

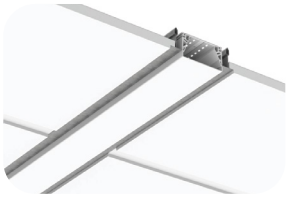
PW: White

PB: Black

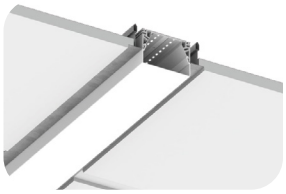
Diffusing



Flush

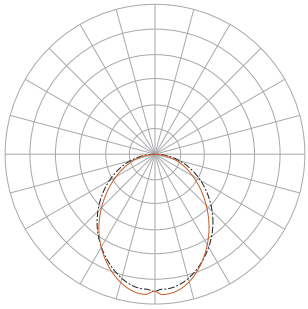


DLE05
4.0" Height



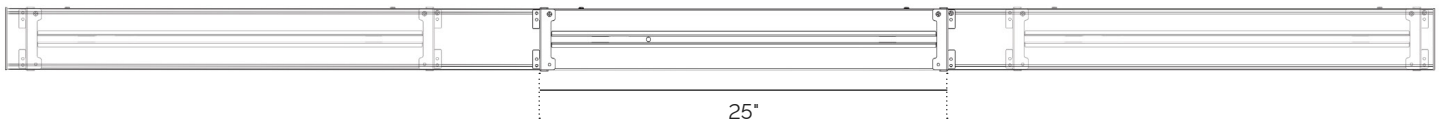
DLE10
4.5" Height

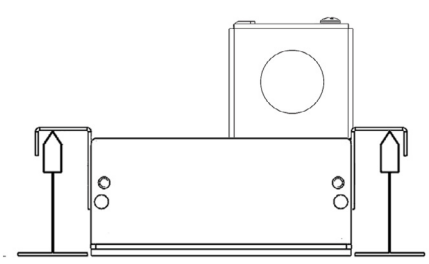
Distribution



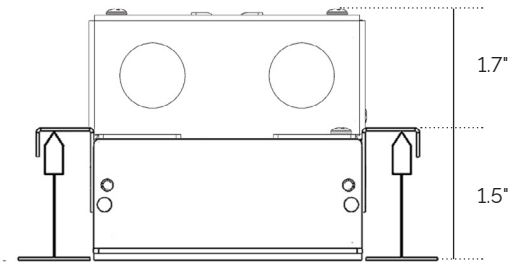
Direct: SatinIce Diffuse (SD)

Top Power





TP



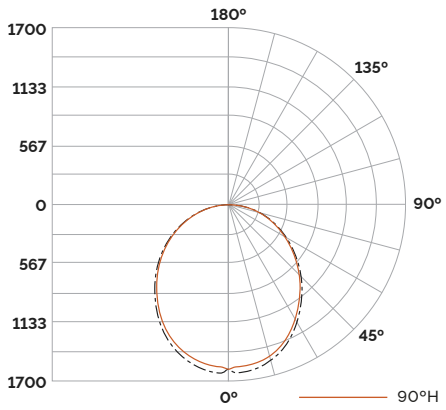
TPX
Driver and battery are mounted to side cover

NOTE: Top mounted driver box can be mounted anywhere along the length of the fixture. Suitable for applications where plenum space is limited at specific locations.

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Performance

RSHAL-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

Continue to Next Page

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 (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'	
S12' (4')	4'		4'		4'	
S12' (6')	6'			6'		

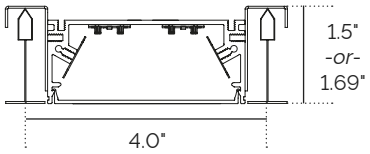
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Mounting

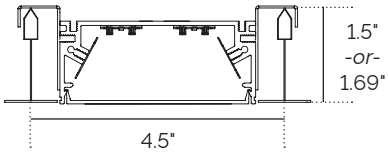
T-Bar / T-Grid

Requires Hyper Drive

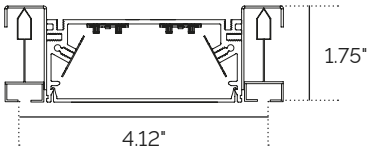
TBX



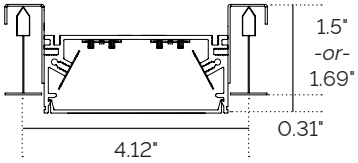
9/16" T-Bar
Flush



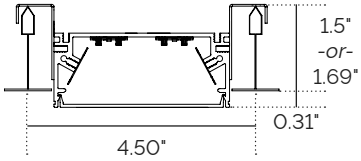
15/16" T-Bar
Flush



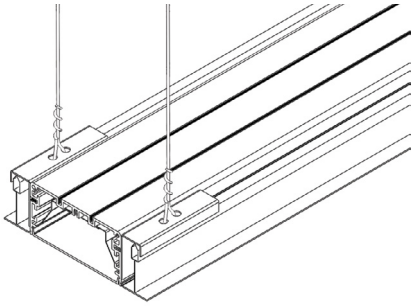
9/16" T-Bar
Bolt Slotted



9/16" T-Bar
Tegular



15/16" T-Bar
Tegular



Continue to Next Page

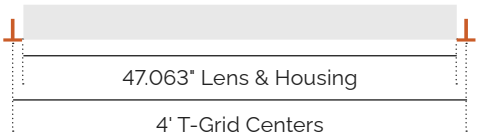
Mounting

TBX / TEG9

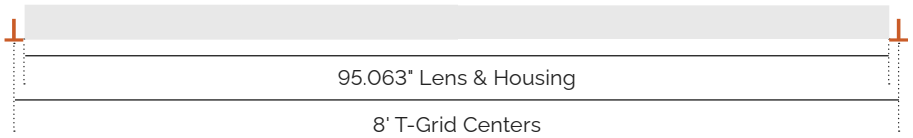
The lengths of individual fixtures and run lengths specified in the ordering logic is the distance between the centers of the T-Grids (See Page 4). The actual length of the fixtures and the lens will be shorter from that specified length. In a run, the last fixture compensates for the T-Grid. NOTE: The mounting option will affect total run length. If a different configuration is needed to meet an aesthetic requirement, please indicate this on your P.O. when placing your order.

Examples of the standard construction of TBX and TBA configurations are as follows:

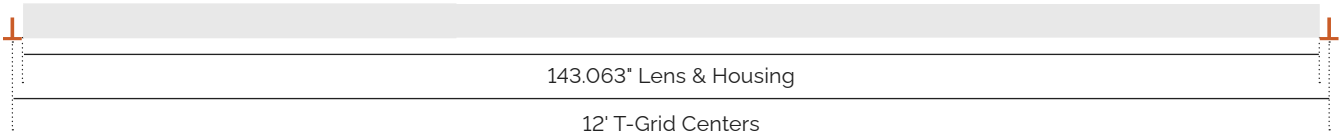
4' Fixture



8' Fixture

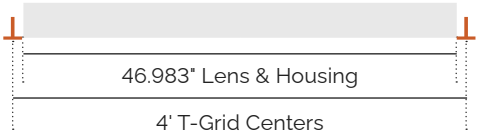


12' Fixture

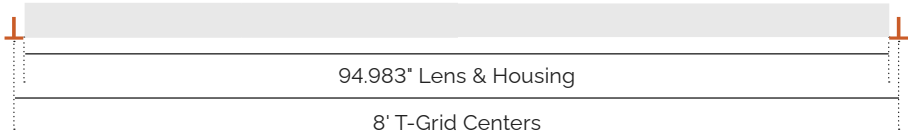


TEG15

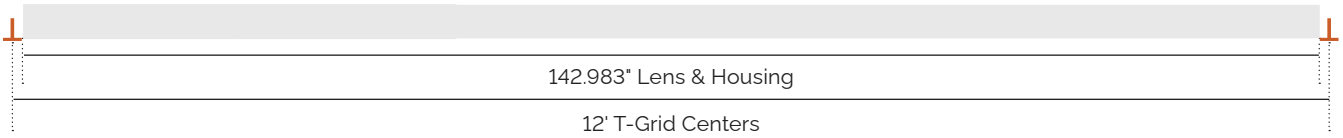
4' Fixture

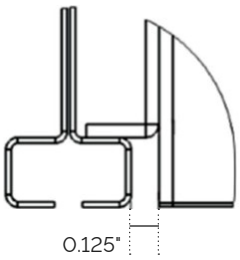


8' Fixture

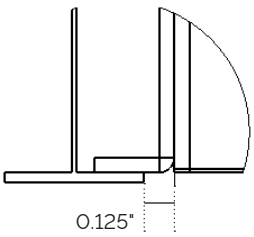


12' Fixture

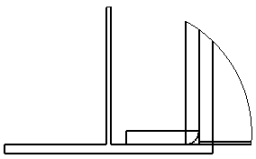




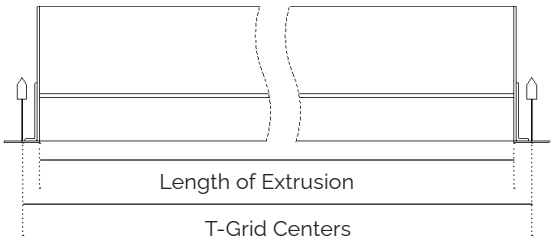
9/16" Screw Slot
Detailed View



9/16" T-Bar
Detailed View

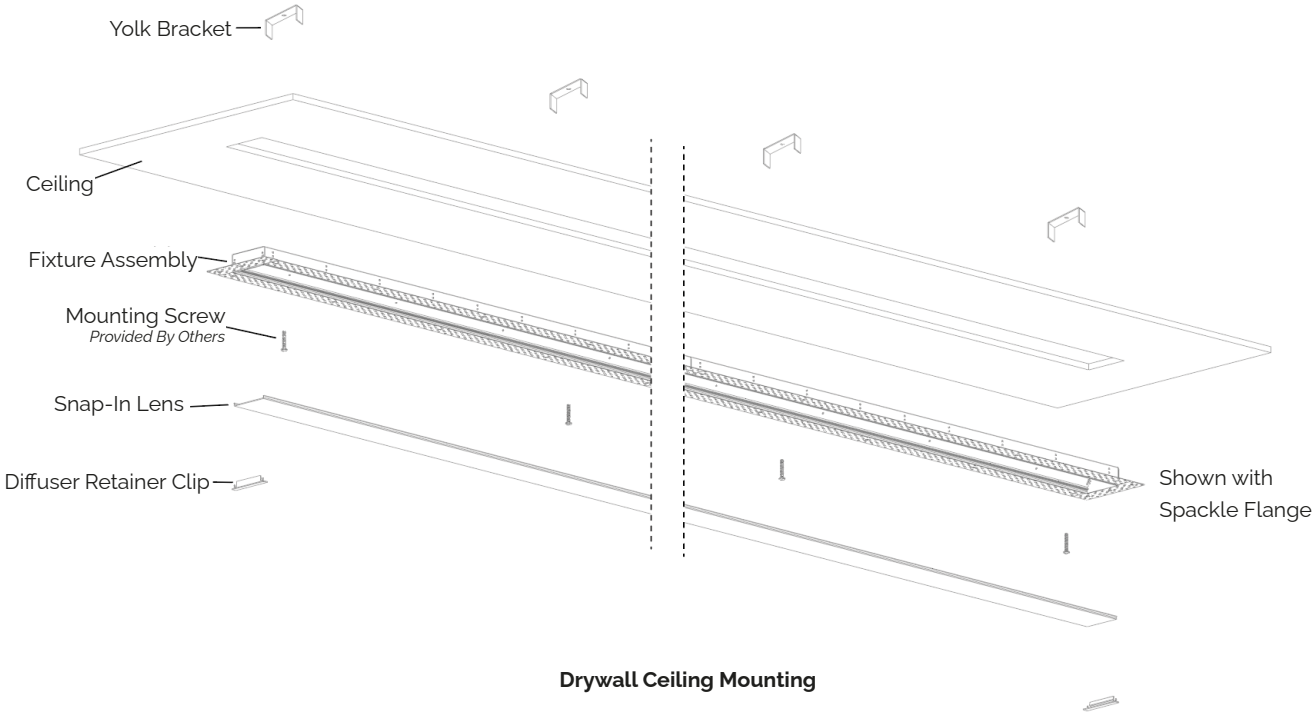


15/16" T-Bar
Detailed View



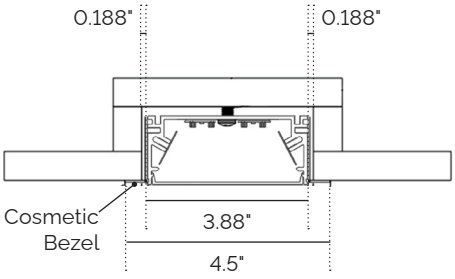
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Mounting



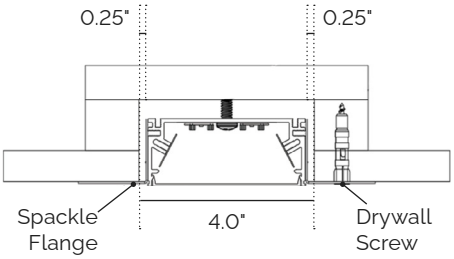
Drywall Ceiling Mounting

Cosmetic Bezel[1, 2]



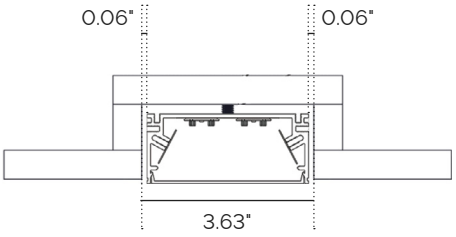
CB
Screw/Rod Mount

Spackle Flange[2, 3]

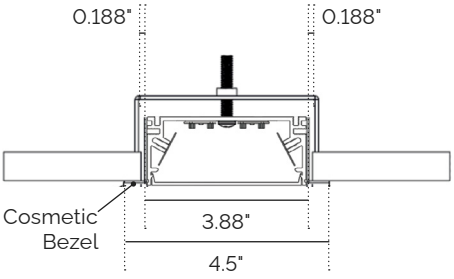


SF
Screw/Rod Mount

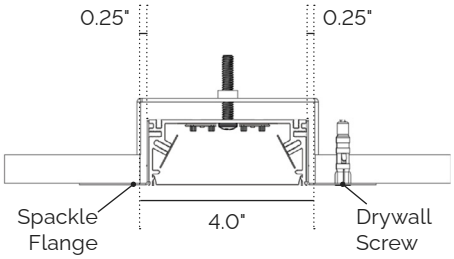
Trimless[1, 2]



TR
Trimless



CBY
Yoke Mount



SFY
Yoke Mount

Notes

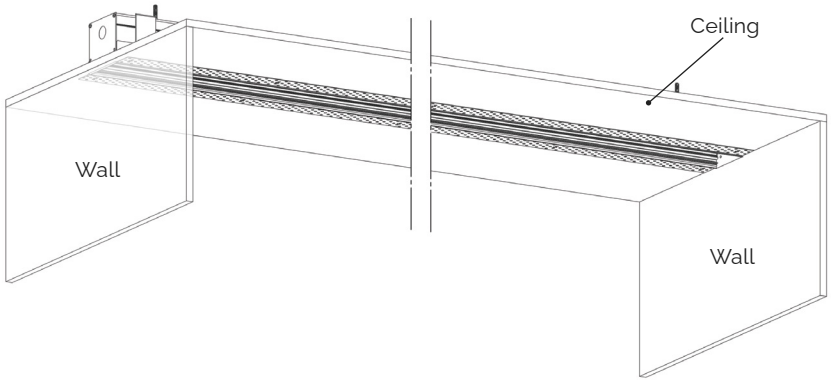
1. Fixture has to be mounted through the back of the extruded housing into structure, mounting hardware provided by others.
2. Must be ordered with Hyper Drive Remote Driver.
3. Add +0.25" to length of the fixture (end cap to end cap)

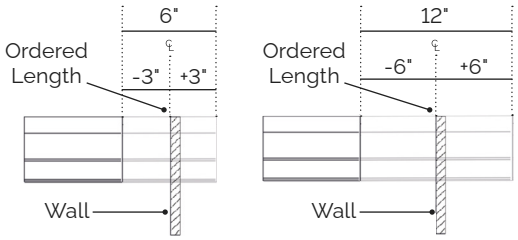
Requires Hyper Drive

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FF (Field Fit)

This option allows for flexibility in wall-to-wall recessed applications. When ordered, the total run length allows for ± 3.0" or ± 6.0". Housing must be cut in the field with a miter saw based on required dimensions.



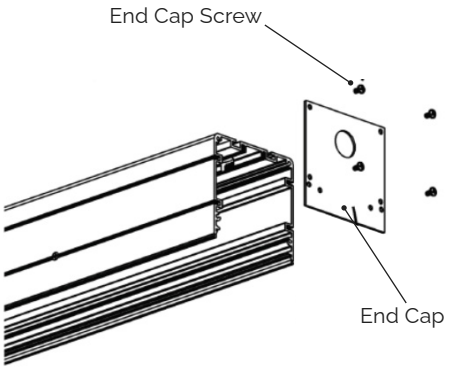


FF3
3" Field Fit

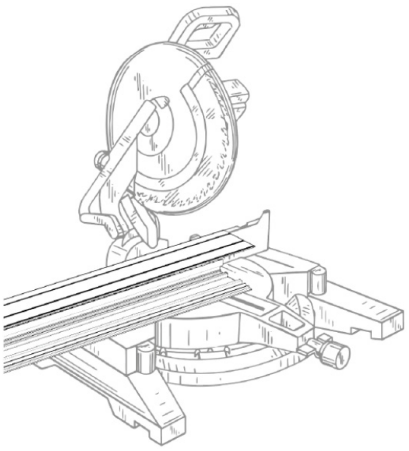
FF6
6" Field Fit

Field Fit Cutting Details

Step 1: Remove the end cap before cutting the back extrusion.

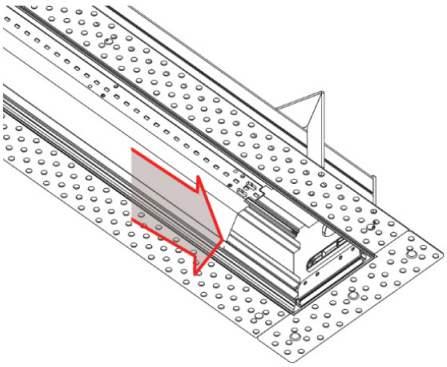


Step 2: Cut back the extrusion. Cut all trim accordingly.



NOTE: Back housing recommended to fill extrusion with scrap wood for cleaner cut.

Step 3: Reinstall the end cap and the telescoping lighting assembly and slide to the end.



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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

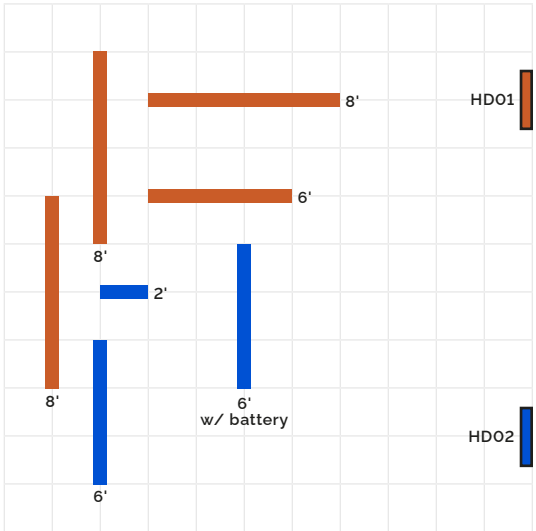
Configuration

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

Example

Qty.	Type
3	RSHAL-8-750-SD-35K-90-PW-TBX-1C-HD01
1	RSHAL-6-750-SD-35K-90-PW-TBX-1C-HD01
1	RSHAL-2-750-SD-35K-90-PW-TBX-1C-HD02
1	RSHAL-6-750-SD-35K-90-PW-TBX-1C-HD01
1	RSHAL-6-750-SD-35K-90-PW-TBX-1C-E1-HD02
1	HYPD-M4-NB-PW-U-DTZ-HD01
1	HYPD-M3-1EMB6-PW-U-DTZ-HD02

Example Configuration



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