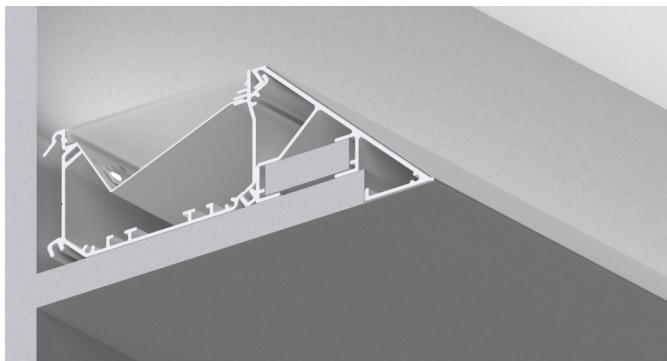


Type:	
Project:	
REP/Agent:	
Order #:	

## COVE



## FRONT TRIM



KNIFE EDGE

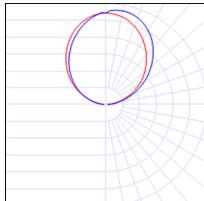


BULLNOSE

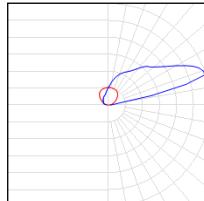
## FEATURES

- ★ Standard 2', 4', 6' and 8' units or continuous rows
- ★ Fixture/run length increments down to 1/16"
- ★ Two piece aluminum extrusion housing
- ★ Linear runs with proprietary joiner design
- ★ Snap-in lens for easy installation
- ★ Compatible with wall-to-wall applications
- ★ 3 Step MacAdam ellipse binning
- ★ Efficacy up to 130 lm/W
- ★ Soft diffuse indirect lighting
- ★ Approved for dry and damp locations
- ★ 0-10v dimming is standard
- ★ Dim to 1% of output current is standard
- ★ 90 CRI (R9 50min) available
- ★ CA Title 24 / JA8 installation compatible
- ★ Consult factory for TM21, TM30, LM79 and LM80
- ★ L70 > 50,000 hours

## DISTRIBUTION

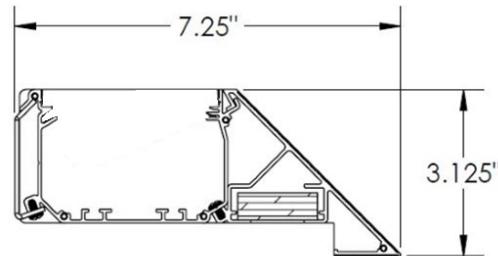


SD= SatinIce Diffuse



CW= Ceiling Wash

## DIMENSIONS



Type:	
Project:	
REP/Agent:	
Order #:	

# COVE

COVE					
Series	Length	Lumens per Foot	Distribution	CCT	CRI
COVE	XX= Run Length _x_RECT= Rectangle _x_L= L-Shape CP= Custom Pattern	350= 350 LPF 500= 500 LPF 750= 750 LPF 1000= 1000 LPF XXX= Custom LPF	SD= SatinIce Diffuse CW= Ceiling Wash	27K= 2700K 30K= 3000K 35K= 3500K 40K= 4000K 50K= 5000K TW= Tunable White <sup>1</sup> (2700-6500K)	80= 80 90= 90 (R9 50 min)

FINISH	MOUNTING	TRIM	VOLTAGE	ELECTRICAL
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#### STANDARD

PW= Powder Coat White  
(Field Paintable)

NF= No Finish  
(For Knife Trim Only)

PB= Powder Coat Black

WM= Wall Mount

K= Knife  
B= Bull

U= 120-277  
C= 347

1C= Single Circuit  
MC= Multiple Circuits  
(multiple switch legs across run length)  
EC= Emergency Circuit  
(separate power drops for EC fixtures)  
GTD= Generator Transfer Device

#### PREMIUM

RALxxxx= Powder Coat  
RAL xxxx (Gloss Finish)

PSFx= Prem Stock Finish\*  
\*Only available on Bullnose Trim

#### CUSTOM

PO= Powder Other

#### OPTIONS

##### 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= Philips Sensor Ready (DALI) Driver

LDE1= Lutron Hi-Lume EcoSystem LED driver w/ Soft-on, Fade-to-Black

TW-A= Tunable White, 0-10v<sup>2</sup>

TW-EL= eldoLED DUALdrive Tunable White (DALI)<sup>2</sup>

LD2=Lutron DALI 2 Digital Tunable White driver with 1% dimming<sup>2</sup>

##### BATTERIES ("#" indicates quantity)

#EMB6= 6W EM Battery (Iota/Bodine)

#EMB10= 10W EM Battery (Iota/Bodine)

#FCEMB10= 10W EM Battery (Factory Choice) <sup>3</sup>

#FCEMB14= 14W EM Battery (Factory Choice) <sup>3</sup>

#### OTHER

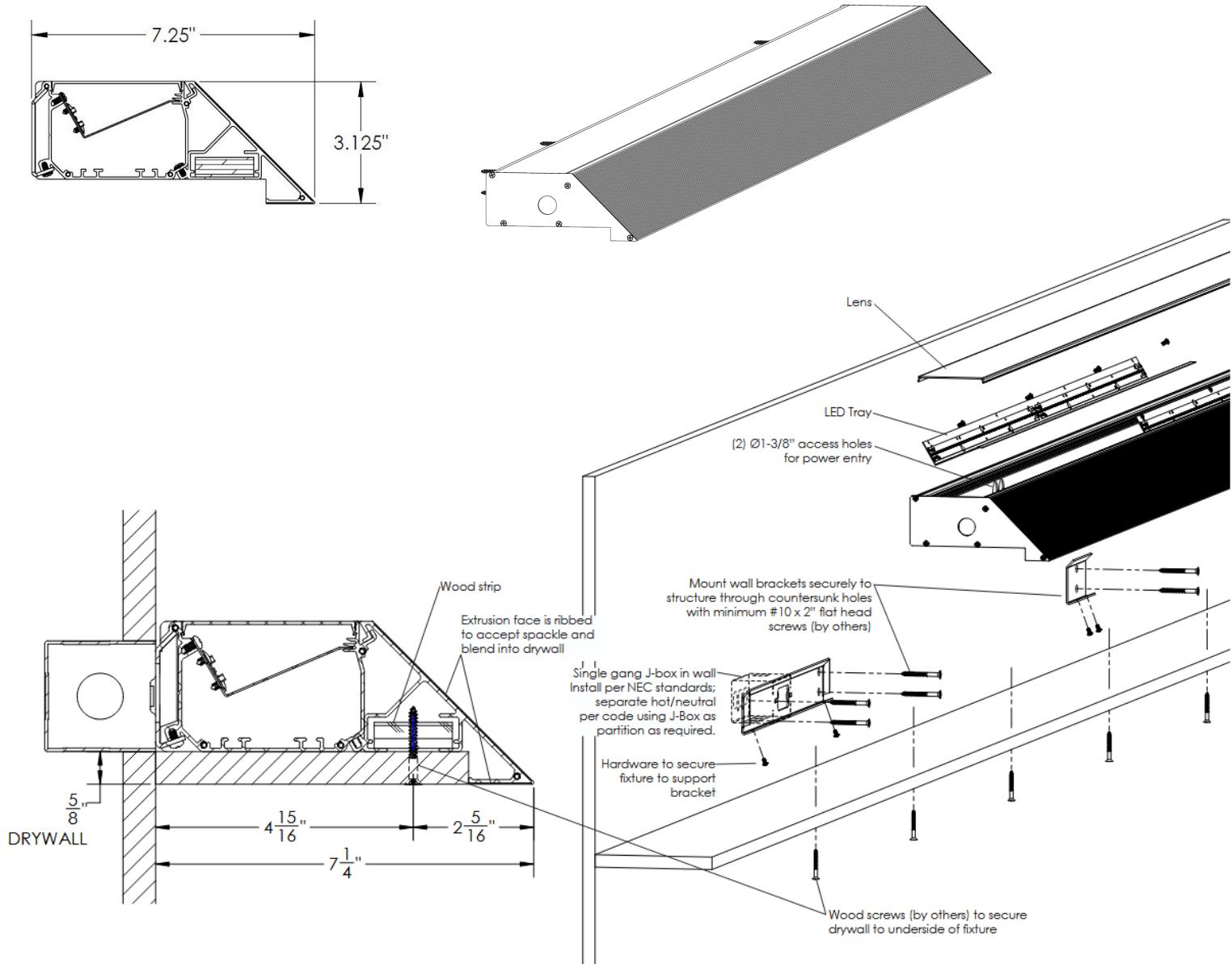
DMX= DMX Lighting Control (RGBW)

<sup>1</sup> Tunable White Driver must be specified in options

<sup>2</sup> 50 Watt Max. Dual driver required for higher fixture wattage

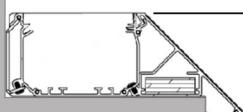
<sup>3</sup> D4i driver for static & DALI-2 Type 8 for tunable.

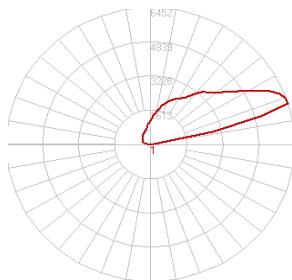
**EXAMPLE: COVE-20-500-CW-35K-80-PR-WM-K-U-1C-1EMB10**

**MOUNTING OPTION**
**WM-Wall Mount**


**6" Min.  
12-18" Recommended**

The fixture is designed to be mounted at least 6" from the ceiling. For optimum performance StarTek recommends mounting 12" to 18" from the ceiling.





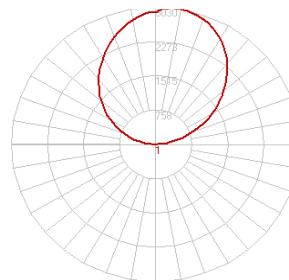
Candela Table

Vert. Angle	Horizontal Angle				
	0	22.5	45	67.5	90
90	0	0	0	0	0
95	212	218	254	419	58
100	542	954	2006	951	141
105	5093	5275	3355	1197	229
110	6409	5608	3636	1461	315
115	5894	5146	3491	1643	400
120	5045	4428	3172	1633	491
125	4292	3830	2932	1558	593
130	3783	3416	2663	1498	701
135	3508	3169	2393	1474	808
140	3116	2787	2198	1483	902
145	2721	2491	2067	1497	976
150	2473	2306	1972	1492	1031
155	2306	2158	1868	1462	1068
160	2102	1979	1744	1407	1091
165	1876	1772	1585	1337	1106
170	1612	1534	1413	1260	1116
175	1349	1304	1249	1187	1121
180	1123	1123	1123	1123	1123

**Model Tested**  
COVE-8-1000-CW-35K-80

## Luminance Data (cd/sq.m)

Angle in Degrees	Avg. 0-Deg	Avg. 45-Deg	Avg. 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0
180	1123	1123	1123



Candela Table

Vert. Angle	Horizontal Angle				
	0	22.5	45	67.5	90
90	0	0	0	0	0
95	136	145	137	124	118
100	350	352	331	305	289
105	586	586	555	520	497
110	845	838	796	754	722
115	1105	1096	1046	993	953
120	1369	1355	1298	1231	1181
125	1634	1609	1544	1465	1401
130	1874	1842	1772	1681	1612
135	2115	2074	1996	1896	1807
140	2332	2289	2206	2099	2003
145	2537	2486	2400	2289	2188
150	2707	2654	2567	2456	2360
155	2842	2792	2707	2606	2519
160	2945	2893	2815	2726	2653
165	3007	2955	2889	2818	2764
170	3030	2980	2926	2878	2846
175	3018	2971	2932	2905	2897
180	2920	2920	2920	2920	2920

**Model Tested**  
COVE-8-1000-SD-35K-80

## Luminance Data (cd/sq.m)

Angle in Degrees	Avg. 0-Deg	Avg. 45-Deg	Avg. 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0
180	1123	1123	1123

Power<sup>1</sup>

LPF	Total Lumens	CW		SD	
		Ceiling Wash	LPW	W/ft.	LPW
350	2800	118	3	130	3
500	4000	118	4	130	4
750	6000	118	6	130	6
1000	8000	118	9	130	8

<sup>1</sup>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.

$$\text{Wattage} \times \text{Multiplier} = \text{New Configuration Wattage}$$

## INDIVIDUAL AND CONTINUOUS FIXTURE CONFIGURATION

## Individual &amp; Continuous Run

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

If a different configuration is needed to meet an aesthetic requirement, please indicate this on your P.O. when placing your order.

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

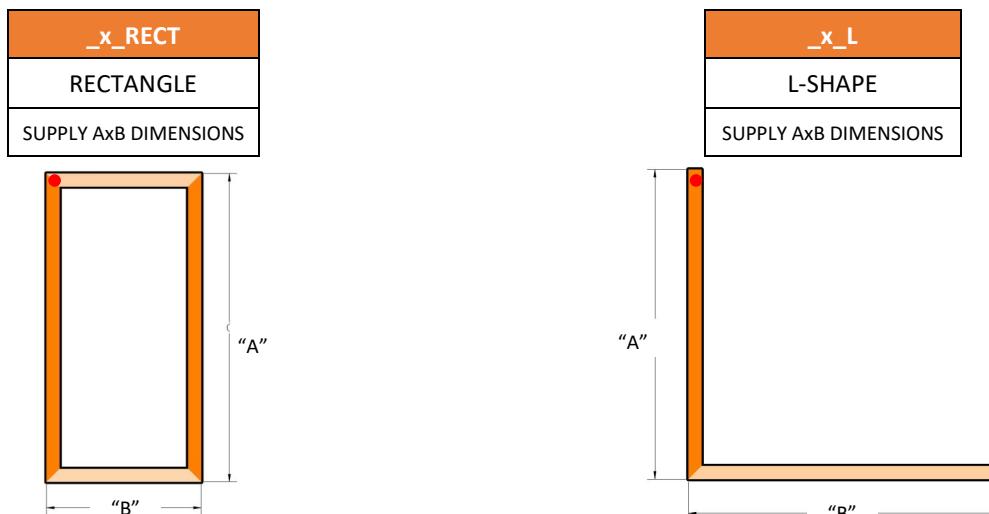
# of Sections	Total Length																																																	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40											
2	1																																																	
3		1																																																
4			1					1	1	1	1					1	1	1	1					1	1	1	1					1	1	1	1															
5				1				1			1					1			1					1			1				1																			
6					1				1			1				1			1				1			1			1			1																		
7						1				1			1			1			1			1			1			1			1			1																
8							1				1	1	1	1	2	1	1	1	2	2	2	2	3	2	2	2	3	3	3	3	4	3	3	3	4	4	4	4	4	5										

**NOTE: Fixtures in continuous runs are available in 1/16" increments. Consult factory for smaller increments.**

## SHAPE CONFIGURATION

## Miter Cuts

Specify the configuration and overall dimensions. Note the overall dimension is for the fixture and does not include any mounting brackets or accessories. For the "L" shape, the standard construction is to build with as many 8' sections as possible or use the longest sections first and finish the shapes with a shorter length fixture if necessary.

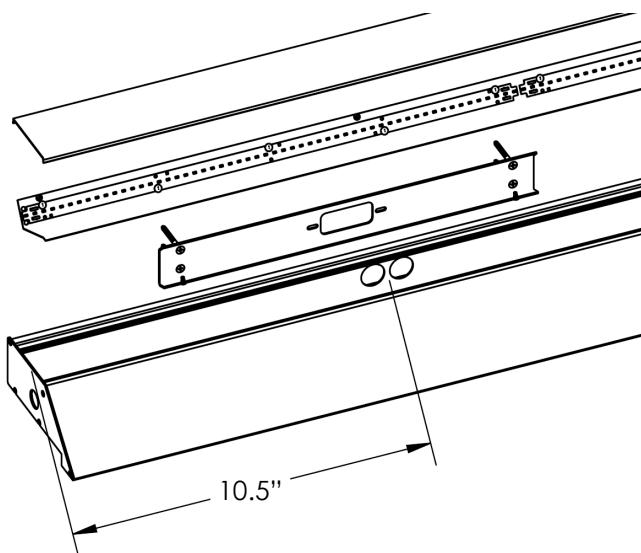


● = Power Location

## POWER LOCATION &amp; WIRING DIAGRAMS

## POWER LOCATION

The standard power location is out the end cap on the starter fixture. If a different configuration is needed to meet an aesthetic or placement requirement, please consult the factory.



## WIRING DIAGRAMS

Wiring configurations are dependent on the options chosen. Below are a few examples of our standard wiring that is used to power the fixture.

WIRING		
HIGH VOLTAGE	LOW VOLTAGE	
18 GA		
H = HOT	+D(V) = +DIMMING	HOT (BLACK)
N = NEUTRAL	-D(G) = -DIMMING	NEUTRAL (WHITE)
GND = GROUND		GROUND (GREEN)
		+DIMMING(VIOLET)
		-DIMMING (GRAY)

This wiring diagram is showing a standard set of wires for a basic fixture.

WIRING		
HIGH VOLTAGE	LOW VOLTAGE	
18 GA		
S = SWITCHED	+D(V) = +DIMMING	SWITCHED (BLACK)
N = NEUTRAL	-D(G) = -DIMMING	NEUTRAL (WHITE)
U = UNSWITCHED		GROUND (GREEN)
GND = GROUND		UNSWITCHED (RED)
		+DIMMING(VIOLET)
		-DIMMING (GRAY)

This wiring diagram is showing a set of wires for a fixture with a emergency battery.

**Housing**

Housing of continuous extruded 6063 T5 aluminum.

**Luminaire Length**

2', 4', 6' or 8' lengths are available for a single stand-alone section. Using internal joiners, sections can be joined to form longer rows.

**Battery**

Lithium ion battery providing up to (14W) for 90 minutes. UL924 listed. Class 2 compliant. Meets Title 20 CEC (California Energy Commission) efficiency standards.

**Lensing**

Snap-in .060" thick acrylic lensing with impact modifier

**Source**

Four standard 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.

**Environment**

Suitable for dry and damp locations.  
Operating temp.: -40°C to +45°C

**Dimming Driver**

LED drivers allows tunable output currents to achieve infinite configurations of output. UL Class 2 recognized. 0-10v interface can be wired as Class 1 or Class 2 circuit. Included 2.5Kw ring and wave overcurrent protection, isolation of each individual output and a fully potted driver to protect from heat and vibration. Power factor <.93

**Packaging**

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

**WARRANTY**

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

[http://www.starteklightingamerica.com/images/pdf/warranty/Cove\\_Series\\_Warranty.pdf](http://www.starteklightingamerica.com/images/pdf/warranty/Cove_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) .