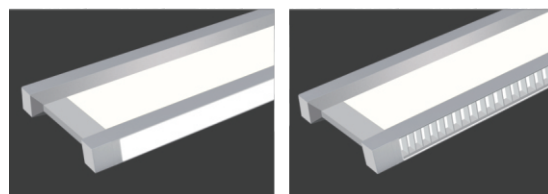
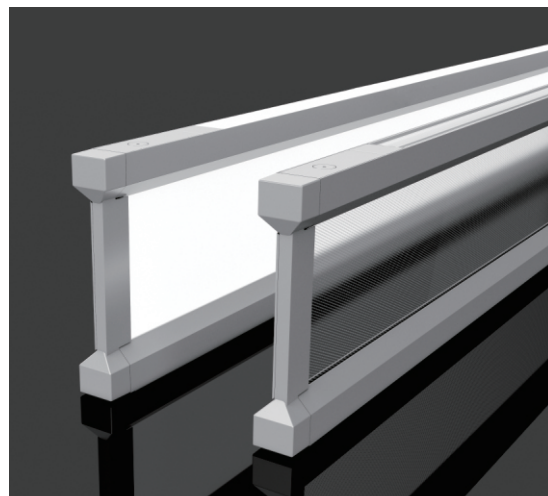


# Pendant | Architectural LED Linear



Our vertical linear is integrated with ultra-thin semi-transparent vertical optics, enveloped in a signature sloping silhouette where the frame meets the optics, precisely controlled optimal direct and indirect distributions at a split of light between the direct surfaces below and the ambient area horizontal the fixture. We strive to challenge the highest visual comfort standard by offering diffuser and louver lens. Most of our customers have been struggling with inventory control, thanks to the CCT selectable technology, you can now fulfill more orders with fewer SKUs to win more projects! It's highly engineered luminaire joining design allows for simple and intuitive assembly in the field which is perfect for applications that include conference rooms, open offices, retail settings, anywhere you want to make a statement.





## Feature

- UL, cUL Listed, damp rated
- 4' 40W, up to 1100 lm/ft
- Transparent vertical optics, enveloped in a signature sloping silhouette
- Direct or indirect lighting distribution options
- CCT selectable 3000K, 3500K, 4000K by dip switch
- Seamless continuous runs, up to 40' per power feed
- Application flexibility, T-grid or dry ceiling compatible



## PERFORMANCE

Lens	Efficacy Direct 	Efficacy Indirect 
Diffuser	1000lm/ft	1100lm/ft
Louver	800lm/ft	N/A

All efficacy is ±5% base on different CCT. Check the IES file to gain the accurate data .

## STRUCTURE

### ▶▶ Optics

Ultra-thin semi-transparent vertical optics, enveloped in a signature sloping silhouette where the frame meets the optics.

### ▶▶ Finish

Extruded aluminum housing with powder coat white finish or custom.

### ▶▶ Electrical

Mini Internal LED Driver	It is powered by Class 2 high efficiency LED driver, with a standard 1-10V dimming which continuous dims to 10% that works with many types of controls. Tested Dimmers: Lutron® Diva-Dvtv, Leviton® IP-710-DL.
THD	<20%
Power Factor	>0.9
Input Voltage	Standard electronic drivers are UL recognized and available for 110-277V input voltage.


### ▶▶ LED System


CRI	Minimum 80 color rendering index
CCT	The choice of 3000K, 3500K, 4000K color temperature or CCT selectable from 3000K, 3500K and 4000K with a great color consistency.
LED	Minimum 50,000h with 87.8% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.

### ▶▶ Approvals

- cULus listed
- Suitable for damp locations
- Designed for indoor use only
- 5 years limited warranty

### ▶▶ Optional Function

**Occupancy Sensor**  

 We can provide a factory-installed integrated sensor system for multi-level control based on motion and/or daylight contribution with BR1810BI-level & daylight harvest microwave sensor from SHARKWARD. For more info or spec sheet, please contact sales.

**Emergency Option**  

 Optional high voltage 8W emergency LED driver EM-H08170-LBF can be provided. When AC power fails, it immediately switches to the emergency mode, operating for lighting up to 120 minutes. When AC power is restored, it automatically returns to the charging mode which meets critical life-safety lighting requirements. For more info or spec sheet, please visit our website or contact sales.

Emergency Lumen Output:

Fixture Efficacy	Output Power 8w
100lm/w	800 Lumens

## PRODUCT ORDERING GUIDE

### Sample

VLV 4 - I TW U D  
 1 2 3 4 5 6



### 1. Base Model

VLV Meta Vertical

### 2. Length

4 4 feet

### 3. Driver

I Internal

### 4. CCT

- TW CCT Selectable: 3000K, 3500K, 4000K  
 30 3000K \*  
 35 3500K \*  
 40 4000K \*

### 5. Lighting Distribution Options

U Indirect \*  D Direct

### 6. Optics Options

D Diffuser  L Louver

## OPTIONAL ORDERING GUIDE

### Ceiling Type

- Dry Wall (Mount to J-box)  
 Drop Ceiling Clips (Suitable for 9/16" and 15/16" Flat Ceiling)  
 Drop Ceiling Clips (Suitable for 9/16" Slot Ceiling)  
 Drop Ceiling Clips (Suitable for 15/16" Slot Ceiling) \*

### Canopy

- 1.6" Round  
 4.5" Round (Designed for power cable)  
 1.6" Square  
 4.5" Square (Designed for power cable)

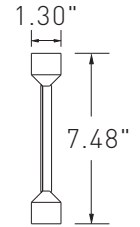
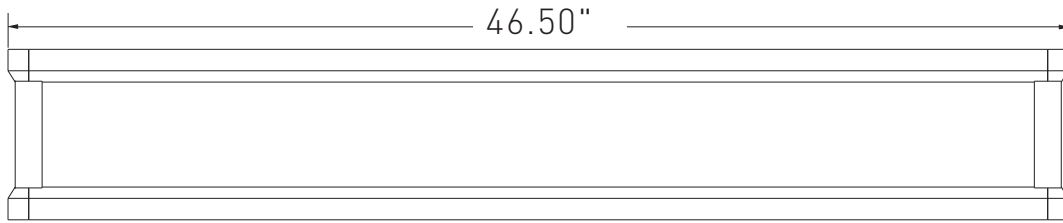
### Optional Function

- LED Emergency Driver (Order Separated)  
 Occupancy Sensor (Order Separated)

\*Additional cost and/or lead time on customized fixtures may apply. Some fixtures require an MOQ. Please contact your sales rep for more information.

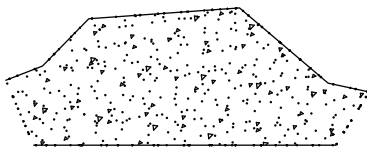
# Pendant | Architectural LED Linear

## DIMENSIONS

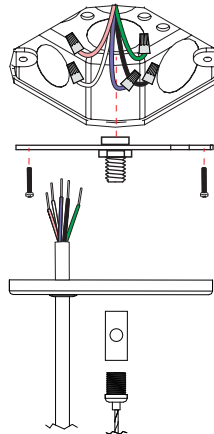


## MOUNTING

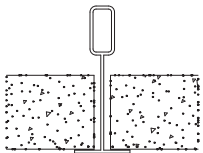
### Dry Ceiling / Off Grid



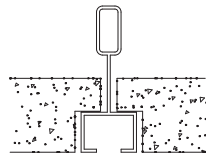
Various "Hard Ceilings"  
(Mount to J-box)



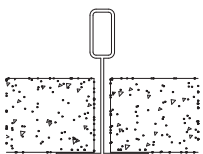
### Drop Ceiling / On Grid



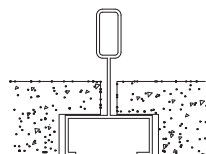
9/16" Flat Ceiling



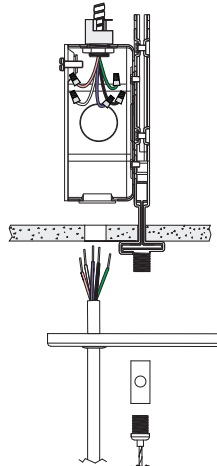
9/16" Slot Ceiling



15/16" Flat Ceiling

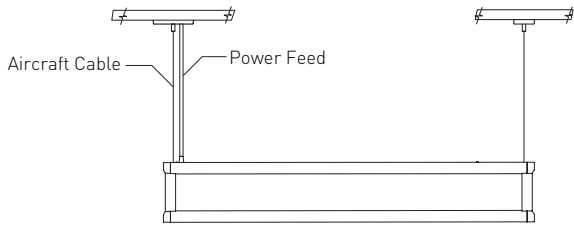


15/16" Slot Ceiling

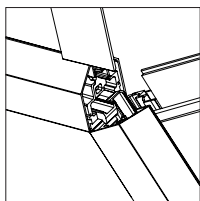
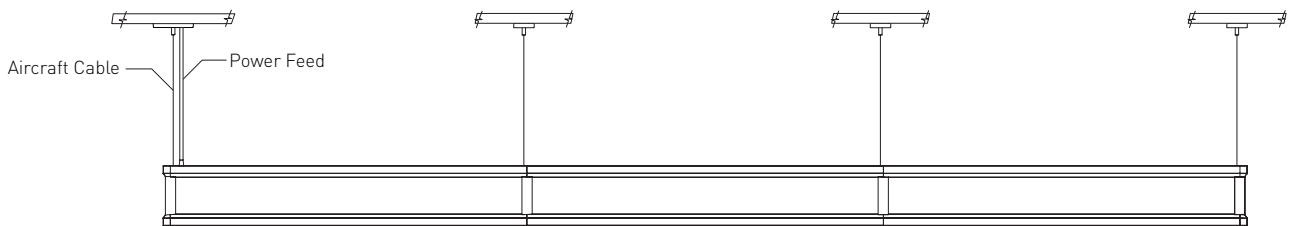


# Pendant | Architectural LED Linear

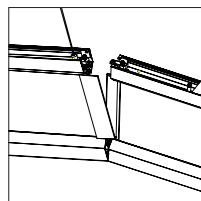
## Individual



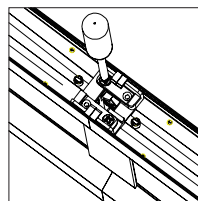
## Continuous Run



Align position



Slide fixtures together



Secure fixtures together via screwdriver

The maximum connection of each input line is less than 40FT in 120AC, less than 100FT in 277AC.

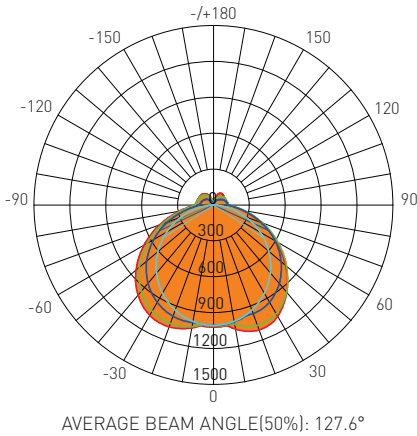
## Standard Line Runs In 120V

Luminaire Run Length (ft)	Run Configuration	5' Power Cable	5' Aircraft Cable	Canopy
4	4'	1	2	2
8	4'+4'	1	3	3
12	4'+4'+4'	1	4	4
16	4'+4'+4'+4'	1	5	5
20	4'+4'+4'+4'+4'	1	6	6
24	4'+4'+4'+4'+4'+4'	1	7	7
28	4'+4'+4'+4'+4'+4'+4'	1	8	8
32	4'+4'+4'+4'+4'+4'+4'+4'	1	9	9
36	4'+4'+4'+4'+4'+4'+4'+4'+4'	1	10	10
40	4'+4'+4'+4'+4'+4'+4'+4'+4'+4'	1	11	11

Note: 4.5" canopy is designed for power cable

## DISTRIBUTION DIAGRAM

### Diffuser (Direct)



Test Number: LV4-I40DD  
 Lumens: 4207.22 Lm  
 Watts: 40 W  
 LPW: 109.62 Lm/W  
 CCT: 4000K

UNIT: cd  
 - C0/180, 133.5°  
 - C30/210, 133.5°  
 - C60/240, 129.7°  
 - C90/270, 113.6°

Zonal Flux Diagram

τ	C0	C45	C90	C135	C180
10	1053	996.2	987.9	1012	1043
20	1112	1025	935.3	1018	1084
30	1075	1000	851.2	979.0	1066
40	952.5	915.2	739.6	893.5	983.6
50	787.0	783.7	604.5	766.6	847.0
60	604.9	620.6	449.1	605.5	672.5
70	416.6	440.5	278.3	424.8	478.8
80	242.5	258.5	110.0	247.3	289.8
90	123.9	130.3	2.740	143.7	159.0
100	120.5	119.6	3.909	133.9	146.8
110	113.3	116.8	3.829	126.0	141.1
120	112.3	109.1	3.944	117.6	138.0
130	113.7	92.03	4.770	106.0	134.2
140	118.4	77.33	2.787	89.37	124.8
150	116.1	59.57	3.139	66.65	103.9
160	87.65	43.48	3.301	37.76	67.08
170	21.87	20.75	3.302	4.479	15.56
180	2.967	3.143	3.211	3.161	2.963
DEG	LUMINOUS INTENSITY:cd				

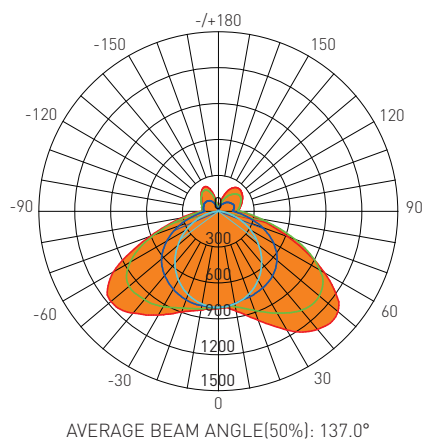
Zonal Lumens

τ	φ total
0-10	96.00
10-20	384.0
20-30	846.1
30-40	1431
40-50	2063
50-60	2662
60-70	3155
70-80	3491
80-90	3668
90-100	3787
100-110	3896
110-120	3991
120-130	4071
130-140	4133
140-150	4176
150-160	4199
160-170	4207
170-180	4207
	UNIT: lm

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	67852	17105
80	48154	21840
75	43431	25467
70	42007	28059
65	41821	29829
60	41716	30971
55	41730	31807
50	42217	32429
45	42641	32896

### Diffuser (Indirect)



Test Number: LV4-ITWUD  
 Lumens: 4492.7 Lm  
 Watts: 40 W  
 LPW: 114.25Lm/W  
 CCT: 4000K

UNIT: cd  
 - C0/180, 152.6°  
 - C30/210, 153.3°  
 - C60/240, 135.5°  
 - C90/270, 106.4°

Zonal Flux Diagram

τ	C0	C45	C90	C135	C180
10	846.6	790.9	786.5	804.5	838.8
20	969.6	818.7	739.6	811.7	895.7
30	1145	858.4	664.2	819.4	1002
40	1289	885.3	563.1	815.8	1111
50	1304	862.7	441.4	763.7	1173
60	1020	760.8	309.5	649.5	1012
70	615.0	559.6	177.0	455.7	604.5
80	328.7	319.3	63.40	240.8	309.6
90	176.4	167.7	1.009	122.2	145.9
100	184.3	163.5	0.8436	135.9	142.5
110	208.6	180.0	1.204	148.1	148.9
120	233.5	186.0	1.574	159.3	165.8
130	253.1	168.7	1.939	171.0	188.0
140	254.8	145.2	2.273	174.7	222.1
150	224.5	109.9	2.516	155.1	237.2
160	151.7	72.97	2.582	94.39	191.4
170	24.75	24.59	2.584	6.175	45.31
180	2.381	2.449	2.471	2.433	2.417
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

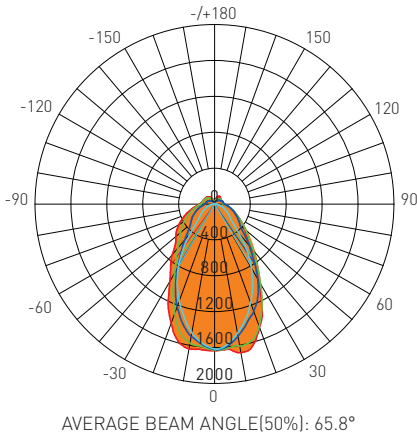
τ	φ total
0-10	76.46
10-20	307.1
20-30	694.6
30-40	1234
40-50	1892
50-60	2581
60-70	3154
70-80	3519
80-90	3711
90-100	3841
100-110	3978
110-120	4115
120-130	4242
130-140	4350
140-150	4431
150-160	4477
160-170	4492
170-180	4493
	UNIT: lm

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	176820	16119
80	119799	23109
75	110363	28479
70	113803	32761
65	121775	36161
60	129163	39183
55	131974	41517
50	128397	43466
45	118209	45092

## DISTRIBUTION DIAGRAM

### Louver (Direct)



Test Number: LV4-I40DL  
 Lumens: 3278.8 Lm  
 Watts: 40 W  
 LPW: 84.04 Lm/W  
 CCT: 4000K

UNIT: cd  
 — C0/180,70.3°  
 — C30/210,67.9°  
 — C60/240,64.3°  
 — C90/270,60.5°

Zonal Flux Diagram

τ	C0	C45	C90	C135	C180
10	1681	1536	1464	1540	1639
20	1464	1389	1174	1251	1415
30	1008	1008	825.6	852.5	999.1
40	645.8	654.5	421.9	578.8	733.5
50	441.9	428.7	220.7	429.0	564.5
60	320.7	316.0	147.9	342.3	460.6
70	224.5	227.9	88.91	263.3	343.1
80	149.4	161.2	39.14	192.8	239.4
90	95.30	105.0	0.5503	141.9	163.0
100	91.33	97.86	1.137	126.7	144.5
110	86.32	94.92	1.330	113.6	133.7
120	83.66	91.14	1.479	101.9	126.7
130	89.55	80.84	1.696	87.96	120.0
140	100.6	69.39	2.183	71.32	108.0
150	102.4	55.47	2.860	52.64	87.64
160	81.58	42.59	3.631	31.02	57.15
170	21.51	21.88	4.194	5.299	15.68
180	4.076	4.162	4.338	4.266	4.072
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

τ	φ total
0-10	150.4
10-20	556.1
20-30	1068
30-40	1532
40-50	1900
50-60	2215
60-70	2476
70-80	2675
80-90	2812
90-100	2918
100-110	3012
110-120	3094
120-130	3162
130-140	3214
140-150	3251
150-160	3271
160-170	3278
170-180	3279
	UNIT: lm

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	46895	6908
80	29664	7773
75	24303	8388
70	22635	8964
65	22130	9539
60	22118	10201
55	22880	10991
50	23704	11840
45	25024	13586