

# Linear Surface

VERTICAL PENDANT LINEAR LUMINAIRE

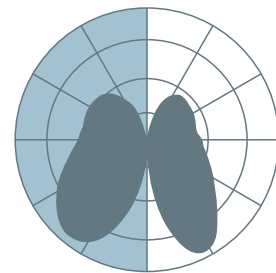
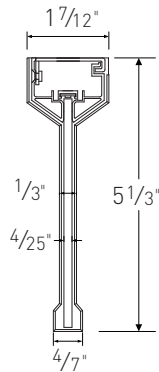


Our Linear Surface delivers precise, textural, and comfortable linear lighting for a variety of applications including pendant, surface and wall mount to suit your daily needs.

It is integrated with ultra-thin semi-transparent vertical optics, enveloped in a signature sloping silhouette where the frame meets the optics. It appears to be floating in the air, creating a comfortable and distinctive direct/indirect luminaire.

With wattage and CCT adjustable function, Meta Surface also has the flexibility to illuminate many types of spaces, packing a powerful punch of up to 1300 lumens per foot with 90+CRI.

- 3 lengths & sloping silhouette
- Transparent optics
- Up to 1300 lm/ft
- True color, 90+CRI
- CCT & wattage adjustable



PERFORMANCE PER LINEAR FOOT AT 3000K

| Length | Lumen Package     |                   |                   |
|--------|-------------------|-------------------|-------------------|
|        | High              | Medium            | Low               |
| 2'     | 1000lm/ft, 10w/ft | —                 | —                 |
| 3'     | 1300lm/ft, 13w/ft | 1000lm/ft, 10w/ft | 650lm/ft, 6.5w/ft |
| 4'     | 1000lm/ft, 10w/ft | 750lm/ft, 7.5w/ft | 500lm/ft, 5w/ft   |

\*Please consult factory for custom lumen output and wattage

## 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 driver 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 100-277V or 120-347V AC input voltage.  |

### LED System

|     |   |
|-----|---|
| CRI | Minimum 90 color rendering index  |
| CCT | CCT adjustable 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

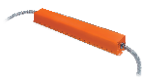
- cULus listed
- Suitable for damp locations
- Designed for indoor use only
- 5 years limited warranty

### Optional Function

**Sensor Option** 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 [www.oktlighting.com](http://www.oktlighting.com) or contact sales.

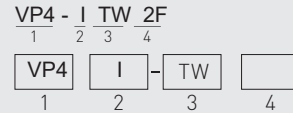


Emergency Lumen Output:

|                  |                 |
|------------------|-----------------|
| FIXTURE EFFICACY | OUTPUT POWER 8W |
| 100lm/w          | 800 Lumens      |

## Product Ordering Guide

### Sample



### 1. Base Model

VP4 Linear Vertical

### 2. Driver

I Internal

### 3. CCT

TW CCT Adjustable: 3000K,3500K,4000K

### 4. Length

2F 2 feet  3F 3 feet  4F 4 feet

## Optional Ordering Information

### 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

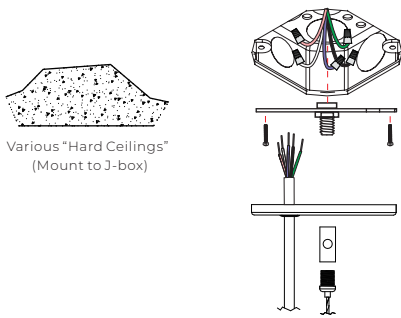
- 1.6" Round
- 4.5" Round (Designed for power cable)
- 1.6" Square
- 4.5" Square (Designed for power cable)

### Optional Function

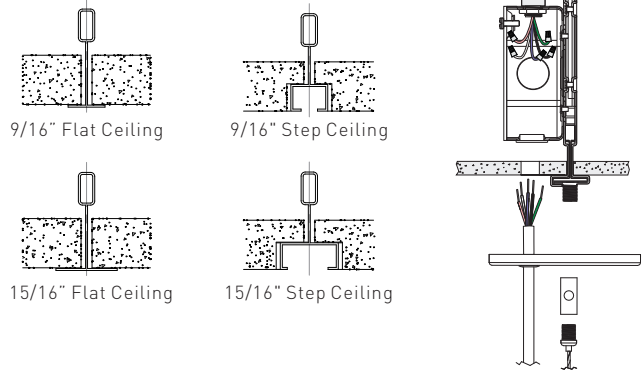
- Emergency
- Sensor

# VERTICAL PENDANT LINEAR LUMINAIRE

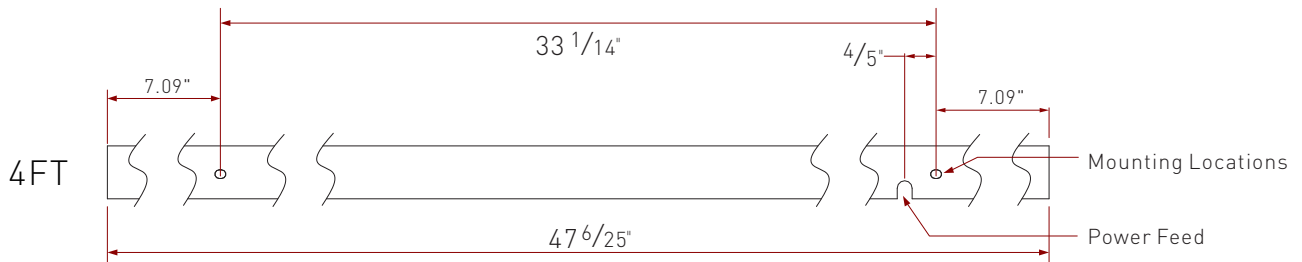
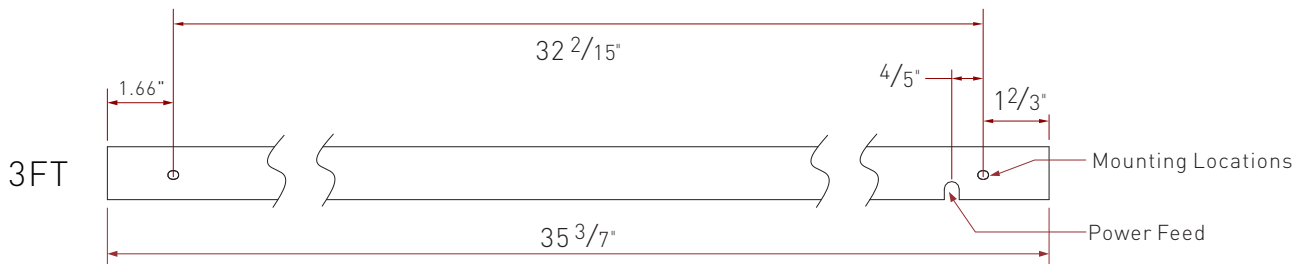
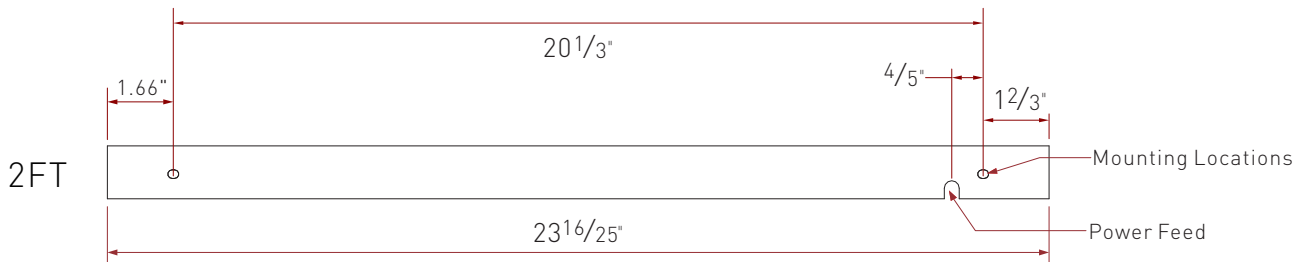
## Dry Ceiling / Off Grid



## Drop Ceiling / On Grid

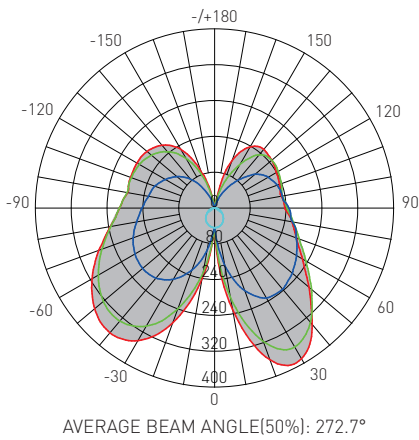


## Dimensions



# VERTICAL PENDANT LINEAR LUMINAIRE

## Distribution Diagram



Test Number: LV4-ITW2F-P  
 Lumens: 2028.16 Lm  
 Watts: 20 W  
 LPW: 102.14 Lm/W  
 CCT: 3000K

UNIT: cd  
 — C0/180,334.8°  
 — C30/210,334.0°  
 — C60/240,315.4°  
 — C90/270,106.7°

## Zonal Flux Diagram

| τ   | C0                    | C45    | C90    | C135   | C180   |
|-----|-----------------------|--------|--------|--------|--------|
| 10  | 228.8                 | 168.3  | 43.49  | 123.0  | 158.8  |
| 20  | 360.2                 | 265.2  | 40.94  | 200.0  | 272.3  |
| 30  | 388.4                 | 308.0  | 36.65  | 255.2  | 341.6  |
| 40  | 339.1                 | 301.7  | 30.89  | 280.5  | 363.8  |
| 50  | 275.2                 | 270.9  | 24.29  | 282.3  | 349.8  |
| 60  | 226.3                 | 238.1  | 17.69  | 267.9  | 316.1  |
| 70  | 194.3                 | 209.7  | 11.62  | 245.0  | 275.6  |
| 80  | 175.6                 | 187.6  | 6.372  | 219.2  | 236.4  |
| 90  | 156.9                 | 169.0  | 2.588  | 200.0  | 212.8  |
| 100 | 151.8                 | 162.6  | 0.7929 | 186.9  | 198.0  |
| 110 | 154.7                 | 163.9  | 0.5908 | 183.0  | 200.0  |
| 120 | 159.5                 | 162.4  | 0.6223 | 174.2  | 200.7  |
| 130 | 166.7                 | 152.0  | 0.6474 | 158.9  | 197.1  |
| 140 | 171.3                 | 122.8  | 0.6990 | 135.9  | 183.2  |
| 150 | 157.8                 | 80.97  | 0.6868 | 101.4  | 151.5  |
| 160 | 111.6                 | 37.19  | 0.7029 | 51.57  | 82.05  |
| 170 | 12.75                 | 0.6792 | 0.6310 | 1.045  | 12.53  |
| 180 | 0.5411                | 0.5749 | 0.5366 | 0.5456 | 0.5727 |
| DEG | LUMINOUS INTENSITY:cd |        |        |        |        |

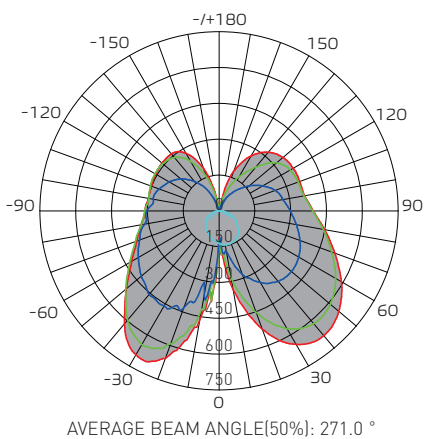
## Zonal Lumens

| τ       | φ total  |
|---------|----------|
| 0-10    | 9.762    |
| 10-20   | 60.81    |
| 20-30   | 170.1    |
| 30-40   | 329.4    |
| 40-50   | 518.1    |
| 50-60   | 717.5    |
| 60-70   | 915.1    |
| 70-80   | 1102     |
| 80-90   | 1275     |
| 90-100  | 1435     |
| 100-110 | 1584     |
| 110-120 | 1721     |
| 120-130 | 1838     |
| 130-140 | 1930     |
| 140-150 | 1991     |
| 150-160 | 2021     |
| 160-170 | 2028     |
| 170-180 | 2028     |
|         | UNIT: lm |

## Luminance cd/(m2)

| G(DEG) | C0/180 | C90/270 |
|--------|--------|---------|
| 85     | 16702  | 413     |
| 80     | 8872   | 322     |
| 75     | 6236   | 302     |
| 70     | 4985   | 298     |
| 65     | 4322   | 302     |
| 60     | 3970   | 310     |
| 55     | 3790   | 320     |
| 50     | 3756   | 331     |
| 45     | 3776   | 343     |

## Distribution Diagram



Test Number: LV4-ITW3F-P  
 Lumens: 3791.44 Lm  
 Watts: 40 W  
 LPW: 94.53 Lm/W  
 CCT: 3000K

UNIT: cd  
 — C0/180,334.8°  
 — C30/210,329.9°  
 — C60/240,305.3°  
 — C90/270,113.8°

## Zonal Flux Diagram

| τ   | C0                    | C45   | C90   | C135  | C180  |
|-----|-----------------------|-------|-------|-------|-------|
| 10  | 333.5                 | 231.0 | 144.3 | 389.6 | 455.4 |
| 20  | 525.5                 | 374.4 | 144.4 | 537.3 | 657.5 |
| 30  | 645.2                 | 473.5 | 139.7 | 583.0 | 696.0 |
| 40  | 682.5                 | 523.2 | 127.0 | 557.5 | 616.6 |
| 50  | 654.7                 | 527.6 | 102.6 | 495.6 | 507.6 |
| 60  | 590.9                 | 502.5 | 82.54 | 434.1 | 422.8 |
| 70  | 514.9                 | 457.9 | 52.98 | 383.0 | 366.8 |
| 80  | 448.2                 | 411.7 | 27.22 | 338.2 | 331.1 |
| 90  | 394.5                 | 368.1 | 10.41 | 318.0 | 309.2 |
| 100 | 364.6                 | 338.9 | 3.873 | 305.4 | 301.0 |
| 110 | 359.5                 | 325.4 | 2.263 | 309.9 | 302.3 |
| 120 | 358.6                 | 299.7 | 2.092 | 305.6 | 307.4 |
| 130 | 349.1                 | 241.9 | 1.321 | 291.2 | 313.0 |
| 140 | 321.0                 | 180.2 | 1.461 | 258.5 | 312.7 |
| 150 | 265.6                 | 118.5 | 1.452 | 194.4 | 279.9 |
| 160 | 173.8                 | 59.48 | 1.438 | 107.9 | 185.7 |
| 170 | 22.43                 | 1.916 | 1.677 | 2.601 | 27.29 |
| 180 | 1.163                 | 1.276 | 1.448 | 1.524 | 1.181 |
| DEG | LUMINOUS INTENSITY:cd |       |       |       |       |

## Zonal Lumens

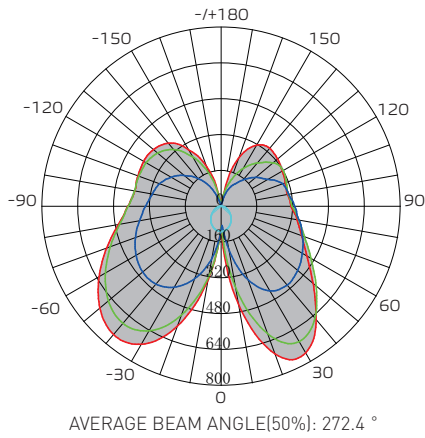
| τ       | φ total  |
|---------|----------|
| 0-10    | 24.08    |
| 10-20   | 129.5    |
| 20-30   | 342.1    |
| 30-40   | 645.6    |
| 40-50   | 1004     |
| 50-60   | 1384     |
| 60-70   | 1758     |
| 70-80   | 2112     |
| 80-90   | 2437     |
| 90-100  | 2736     |
| 100-110 | 3008     |
| 110-120 | 3255     |
| 120-130 | 3463     |
| 130-140 | 3622     |
| 140-150 | 3726     |
| 150-160 | 3778     |
| 160-170 | 3791     |
| 170-180 | 3791     |
|         | UNIT: lm |

## Luminance cd/(m2)

| G(DEG) | C0/180 | C90/270 |
|--------|--------|---------|
| 85     | 27573  | 1198    |
| 80     | 14833  | 901     |
| 75     | 10675  | 864     |
| 70     | 8652   | 890     |
| 65     | 7506   | 933     |
| 60     | 6793   | 949     |
| 55     | 6271   | 928     |
| 50     | 5854   | 917     |
| 45     | 5483   | 940     |

# VERTICAL PENDANT LINEAR LUMINAIRE

## Distribution Diagram



Test Number: LV4-ITW4F-P      UNIT: cd  
 Lumens: 4026.71 Lm      — C0/180,336.9°  
 Watts: 40 W      — C30/210,336.4°  
 LPW: 102.38 Lm/W      — C60/240,319.0°  
 CCT: 3000K      — C90/270,97.4°

## Zonal Flux Diagram

| τ   | C0                    | C45   | C90   | C135  | C180  |
|-----|-----------------------|-------|-------|-------|-------|
| 10  | 443.0                 | 290.7 | 109.8 | 292.8 | 330.5 |
| 20  | 700.6                 | 493.9 | 100.0 | 448.8 | 569.0 |
| 30  | 755.7                 | 595.9 | 86.62 | 551.8 | 711.5 |
| 40  | 660.5                 | 591.5 | 70.30 | 592.0 | 748.0 |
| 50  | 536.5                 | 533.1 | 53.46 | 581.7 | 707.5 |
| 60  | 442.9                 | 467.4 | 37.41 | 541.0 | 629.4 |
| 70  | 382.5                 | 411.2 | 23.03 | 488.9 | 544.0 |
| 80  | 344.3                 | 365.8 | 10.38 | 434.2 | 466.3 |
| 90  | 312.2                 | 332.9 | 1.705 | 395.4 | 417.6 |
| 100 | 301.9                 | 317.4 | 1.529 | 373.1 | 392.1 |
| 110 | 306.3                 | 317.8 | 1.502 | 364.6 | 395.9 |
| 120 | 316.0                 | 298.9 | 1.560 | 347.6 | 400.1 |
| 130 | 329.3                 | 253.5 | 1.601 | 316.1 | 394.9 |
| 140 | 338.5                 | 209.6 | 1.650 | 263.3 | 367.8 |
| 150 | 315.5                 | 156.1 | 1.646 | 183.9 | 290.1 |
| 160 | 228.3                 | 103.0 | 1.587 | 89.29 | 186.5 |
| 170 | 32.66                 | 7.607 | 1.443 | 3.554 | 26.60 |
| 180 | 1.348                 | 1.567 | 1.511 | 1.533 | 1.375 |
| DEG | LUMINOUS INTENSITY:cd |       |       |       |       |

## Zonal Lumens

| τ       | φ total  |
|---------|----------|
| 0-10    | 19.13    |
| 10-20   | 120.3    |
| 20-30   | 339.9    |
| 30-40   | 661.5    |
| 40-50   | 1042     |
| 50-60   | 1442     |
| 60-70   | 1837     |
| 70-80   | 2210     |
| 80-90   | 2554     |
| 90-100  | 2873     |
| 100-110 | 3169     |
| 110-120 | 3437     |
| 120-130 | 3662     |
| 130-140 | 3836     |
| 140-150 | 3952     |
| 150-160 | 4011     |
| 160-170 | 4026     |
| 170-180 | 4027     |
|         | UNIT: lm |

## Luminance cd/(m2)

| G(DEG) | C0/180 | C90/270 |
|--------|--------|---------|
| 85     | 16095  | 261     |
| 80     | 8474   | 255     |
| 75     | 5967   | 273     |
| 70     | 4779   | 288     |
| 65     | 4132   | 303     |
| 60     | 3786   | 320     |
| 55     | 3605   | 338     |
| 50     | 3567   | 355     |
| 45     | 3593   | 375     |