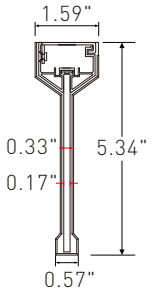
META Surface-Pendant

Spec-grade | Vertical Architectural LED Linear Lighting

Our Meta 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 selectable and CCT adjustable function, Meta Surface also has the flexibility to illuminate many types of spaces, packing a powerful punch of up to 1600 lumen per foot with 90+CRI.

Feature

- 3 lengths & sloping silhouette
- Transparent optics
- Wattage selectable, up to 1600 lm/ft
- True color, 90+CRI
- CCT adjustable from 3000K,3500K and 4000K



PERFORMANCE

Model#	Length	Lumen Package			
		Wattage	3000K	3500K(DLC Qualification)	4000K(DLC Qualification)
LV4-ITW2F	2'	20W	1150lm/ft,115lm/w	1250lm/ft,125lm/w	1200lm/ft,120lm/w
LV4-ITW3F	3'	20W/30W/40W Selectable	750~1500lm/ft,115lm/w	800~1650lm/ft,125lm/w	800~1600lm/ft,120lm/w
LV4-ITW4F	4'	20W/30W/40W Selectable	550~1150lm/ft,115lm/w	600~1250lm/ft,125lm/w	600~1200lm/ft,120lm/w

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

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PRODUCT ORDERING GUIDE

Example: LV4-ITW2F (Pendant)

LV4	-	I	TW		(Pendant)
Product Series		Driver	CCT	Length & Wattage	Just to remark the mounting. Don't show in product label.
LV4 Meta Surface Linear		**I** Internal Driver	**TW** CCT Adjustable 3000K/3500K/4000K	**2F** QuickShip 2 Feet,20W **3F** QuickShip 3 Feet,20W/30W/40W Selectable **4F** QuickShip 4 Feet,20W/30W/40W Selectable	

OPTIONAL PENDANT ACCESSORY

Ceiling Type	Canopy	Power Cord&Aircraft Cable	Optional Functions
DW QuickShip Dry ceiling Mount to J-box	**RDWH** QuickShip 1.6" Round & White 4.5" Round & White (Designed for power cable)	**C05WH** QuickShip 4 ft white power cord + 5ft aircraft cable	**EME** QuickShip Emergency Function (Only external 16w or 25w LED emergency driver with standard indicator available and need field-installed.)
TF QuickShip Drop ceiling clips for 9/16" and 15/16" flat ceiling	**SQWH** QuickShip 1.6" Square & White 4.5" Square & White (Designed for power cable)	**C12WH** 12 ft white power cord + 12ft aircraft cable	**OCC** QuickShip Sensor Function (Built-in occupancy sensor in 5.8inch round canopy)
TS QuickShip Drop ceiling clips for 9/16" slot ceiling	**RDBL** QuickShip 1.6" Round & Black 4.5" Round & Black (Designed for power cable)	**C05BL** QuickShip 4 ft black power cord + 5ft aircraft cable	
TX QuickShip Drop ceiling clips for 15/16" slot ceiling	**SQBL** QuickShip 1.6" Square & Black 4.5" Square & Black (Designed for power cable)	**C12BL** 12 ft black power cord + 12ft aircraft cable	

STRUCTURE

Finish

Extruded aluminum housing with powder coat white finish or custom.

Optics

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

Electrical

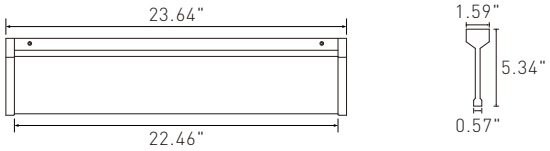
Mini Internal LED Driver	It is powered by Class 2 high efficiency LED driver, with a standard 0-10V dimming which continuous dims to 10% that works with many types of controls. Tested Dimmers: Lutron® Diva-Dvtv, Leviton® IP-710-DL.
THD	<20%
Power Factor	>0.9
Input Voltage	Standard electronic drivers are UL recognized and available for 110-277V or 110-347V AC* input voltage.

LED System

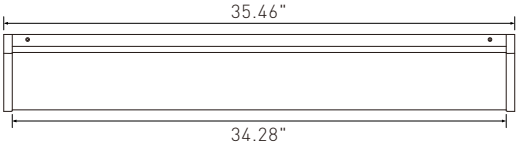
CRI	Minimum 90 color rendering index.
CCT	CCT adjustable from 3000K, 3500K and 4000K with a greataqjinolor consistency.
LED	Minimum 50,000h with 87.8% of lumen maintenance in 25℃ ambient temperature, in compliance with IES LM-80 testing measurements.
Environment	Damp rated for ambient operating temperature of -20°C to +40°C (-4° to+104°F).

DIMENSIONS

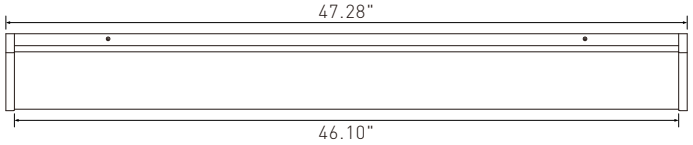
2FT



3FT



4FT



*Make to Order means additional cost and/or lead time on customized fixtures may apply. Some fixtures require an MOQ. Please contact your sales rep for more information.

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MOUNTING

Canopy Style

1.6" Round
(Non Power Feed)

4.5" Round
(Power Feed)

4.5" Round With Emergency Driver
(Non Power Feed)

5.8" Round With Occupancy Sensor
(Power Feed)

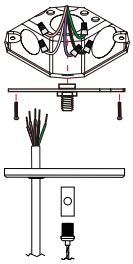
1.6" Square
(Non Power Feed)

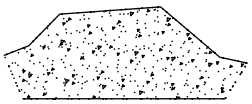
4.5" Square
(Power Feed)

4.5" Square With Emergency Driver
(Non Power Feed)

Dry Ceiling / Off Grid

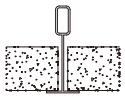
"Various Hard Ceilings" (Mount to J-box)



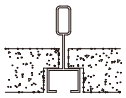


Drop Ceiling / On Grid

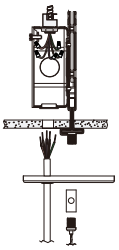
Suspending the luminaire in the T-grid. Compatible for various T-grid, including 9/16" Flat, 9/16" Slot, 15/16" Flat.

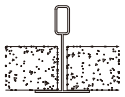


9/16" Flat Ceiling

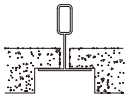


9/16" Slot Ceiling





15/16" Flat Ceiling



15/16" Slot Ceiling

*Please see the installation instruction for more details.

Pendant Accessories For Dry Ceiling

Canopy Kits

Power Cord Kits

4FT Standard
(12FT Available)

Aircraft Cable Kits

5FT Standard
(12FT Available)

Pendant Accessories For Drop Ceiling

Canopy Kits

Junction Box

Power Cord Kits

4FT Standard
(12FT Available)

Aircraft Cable Kits

5FT Standard
(12FT Available)

T-grid Clips

For 9/16" and 15/16" Flat Ceiling
(2 Clips/Set)

For 15/16" Slot Ceiling
(2 Clips/Set)

For 9/16" Slot Ceiling
(2 Clips/Set)

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OPTIONAL FUNCTION

Emergency Option

OKT Lighting offers UL& CEC Listed LED emergency drivers. When AC power fails it, immediately switches to the emergency mode operating for lighting minimum 90 minutes. When AC power is restored it, automatically returns to the charging mode which meets critical life-safety lighting requirements.

EME

Order Separated LED emergency driver

Optional 16w or 25w high voltage LED emergency driver can be provided if you need and do it wiring in field. For more info or spec sheet please visit our, website or contact sales.

Features:

- Field-installable (UL Listed for US & Canada).
- Energy-efficient charger (CEC Title 20 compliant) .
- Premium battery backup – 90+ minutes runtime during outages.
- Backed by a 5-Year Limited Warranty.
- Supports most LED luminaires (Up to 200W).
- Universal input voltage (100–277V AC).
- Automatic self-diagnostic testing with monthly, semi-annual, and annual checkups.

Occupancy Sensor

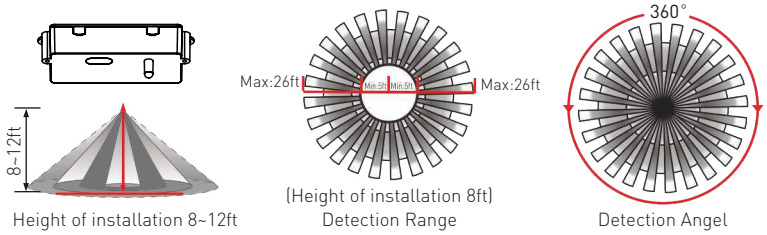
OCC

We can provide a factory-installed integrated sensor system for multi-level control based on motion and/or daylight contribution with BRI810-B-D level & daylight harvest microwave sensor from SHARKWARD. For more info or spec sheet, please contact sales.

Specification

Power Supply	120/277 VAC 50/60Hz
Maximum load @-40°F~+158°F (-40°C~+70°C)	Resistive/ Tungsten-600W@120V Electronic Ballast(LED)-800VA@120V/1200VA@277V
HF System	5.8GHz CW
Dim Control Output	0-10V, max.25mA sinking current
Detection Radius/angle	Max 26ft.(8m)/360
Mounting Height	Max 12ft
Humidity	Max.95% RH
Temperature	-40°F~+158°F (-40°C~+70°C)

Sensor Coverage



Height of installation 8~12ft | (Height of installation 8ft) Detection Range | Detection Angel

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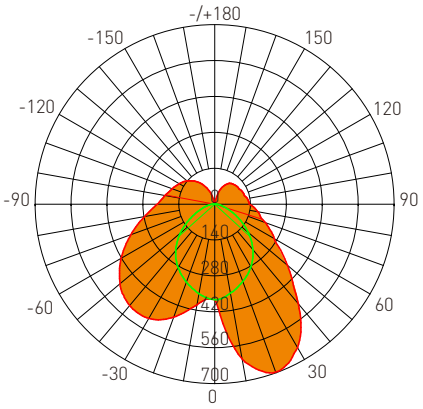
DISTRIBUTION DIAGRAM

2' / 3500K



AVERAGE BEAM ANGLE(50%): 134.4°

Test Number: LV4-ITW2F
Lumens: 2513.51 Lm
Watts: 20 W
LPW: 128.60 Lm/W
CCT: 3500K

UNIT:cd
C0/180,172.9°
C90/270,95.9 °

Zonal Flux Diagram

T	C0	C45	C90	C135	C180
10	611.9	529.4	353.2	372.8	398.2
20	696.7	605.3	321.0	405.9	469.0
30	646.1	587.6	282.2	434.1	514.3
40	507.3	499.5	233.0	434.4	516.3
50	370.0	396.0	170.6	406.3	482.6
60	268.7	307.9	105.5	362.4	421.9
70	210.5	241.7	52.89	308.1	347.6
80	170.9	192.0	21.38	254.4	278.2
90	136.0	150.2	3.729	208.8	224.7
100	129.3	141.9	0.7169	183.8	197.2
110	120.7	132.4	0	162.4	176.9
120	114.5	124.7	0	141.2	160.3
130	111.3	111.7	0	116.5	142.0
140	105.3	91.46	0	88.58	117.5
150	89.30	64.69	0	13.74	46.12
160	58.63	13.33	0	13.74	46.12
170	8.001	0.8131	0.0901	0.9910	3.441
180	0.2742	0.7223	0	0.5422	0.4570
DEG	LUMINOUS INTENSITY:cd				

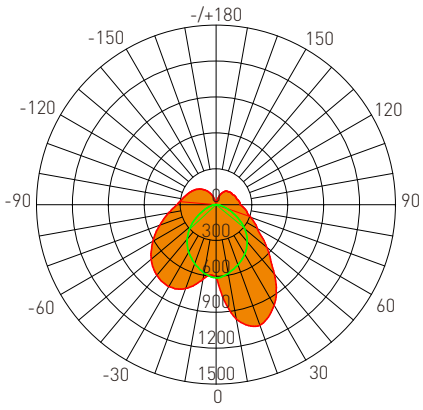
Zonal Lumens

T	ϕ total
0-10	39.83
10-20	172.8
20-30	397.3
30-40	682.1
40-50	983.6
50-60	1270
60-70	1524
70-80	1740
80-90	1916
90-100	2066
100-110	2195
110-120	2305
120-130	2392
130-140	2455
140-150	2494
150-160	2511
160-170	2513
170-180	2514
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	17757	1235
80	9862	1231
75	7136	1355
70	6166	1547
65	5669	1817
60	5384	2111
55	5481	2397
50	5768	2655
45	6108	2868

3' / 3500K



AVERAGE BEAM ANGLE(50%): 131.8 °

Test Number: LV4-ITW3F
Lumens: 3805.84 Lm
Watts: 30 W
LPW: 129.55 Lm/W
CCT: 3500K

UNIT:cd
C0/180,172.9°
C90/270,95.9 °

Zonal Flux Diagram

T	C0	C45	C90	C135	C180
10	968.4	858.3	586.1	597.8	633.0
20	1072	963.6	535.2	660.6	745.3
30	972.4	923.5	479.4	697.2	789.7
40	757.5	777.0	406.5	682.9	769.8
50	553.5	609.8	312.5	629.3	709.0
60	398.3	471.7	199.2	552.8	610.2
70	309.8	364.6	97.10	467.8	501.6
80	250.9	289.9	36.16	386.2	403.0
90	202.5	228.2	6.695	316.2	328.8
100	193.1	215.6	1.550	278.3	286.8
110	179.4	200.2	1.094	245.4	257.0
120	166.7	184.9	1.094	211.2	231.5
130	159.7	163.4	1.094	172.7	205.0
140	147.2	131.9	1.277	131.6	166.7
150	123.3	86.11	1.277	86.34	122.4
160	89.04	20.26	2.183	26.9	67.01
170	14.40	2.257	4.102	2.546	8.510
180	1.548	2.162	4.195	1.819	1.640
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

T	ϕ total
0-10	64.38
10-20	276.1
20-30	628.3
30-40	1069
40-50	1530
50-60	1963
60-70	2343
70-80	2662
80-90	2924
90-100	3147
100-110	3340
110-120	3502
120-130	3630
130-140	3721
140-150	3776
150-160	3801
160-170	3806
170-180	3806
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	26130	2103
80	14462	2074
75	10471	2379
70	9068	2827
65	8384	3404
60	7975	3967
55	8151	4462
50	8620	4840
45	9128	5102

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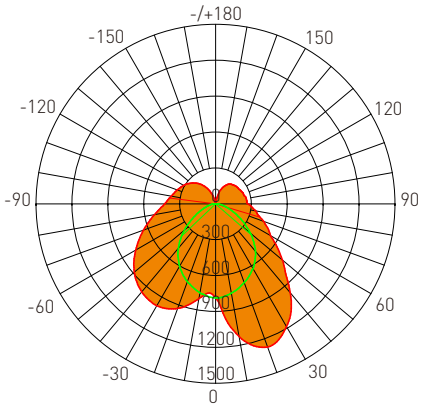
META Surface-Pendant

Spec-grade | Vertical Architectural LED Linear Lighting

4' / 3500K



AVERAGE BEAM ANGLE(50%): 133.0°

Test Number: LV4-ITW4F
Lumens: 4593.3 Lm
Watts: 40 W
LPW: 125.53Lm/W
CCT: 3500K

UNIT: cd
C0/180,170.5°
C90/270,95.5°

Zonal Flux Diagram

τ	C0	C45	C90	C135	C180
10	1124	1022	758.9	760.8	803.3
20	1273	1138	701.6	829.5	929.4
30	1185	1112	606.1	866.8	983.1
40	973.0	958.4	519.0	842.6	961.5
50	729.5	773.1	379.3	774.9	887.5
60	531.8	612.2	230.6	686.5	770.2
70	426.6	486.9	117.9	585.1	640.8
80	340.1	390.7	50.83	486.0	519.1
90	269.6	309.6	9.746	399.4	426.1
100	259.8	293.4	1.830	352.8	377.8
110	247.9	274.0	1.542	312.7	342.5
120	236.4	254.7	1.541	268.5	310.9
130	227.1	227.3	1.540	219.2	271.1
140	213.0	184.6	1.599	164.2	221.8
150	184.7	114.4	1.665	102.2	158.7
160	125.8	49.61	1.731	33.69	82.85
170	34.73	13.20	2.806	3.606	13.88
180	2.040	3.092	2.889	2.495	1.943
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

τ	ϕ total
0-10	79.88
10-20	340.0
20-30	774.2
30-40	1323
40-50	1904
50-60	2453
60-70	2941
70-80	3358
80-90	3702
90-100	3994
100-110	4251
110-120	4468
120-130	4639
130-140	4764
140-150	4839
150-160	4873
160-170	4881
170-180	4881
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	35045	3092
80	19601	2920
75	14272	3084
70	12484	3438
65	11396	3990
60	10646	4599
55	10947	5289
50	11358	5885
45	11738	6380

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