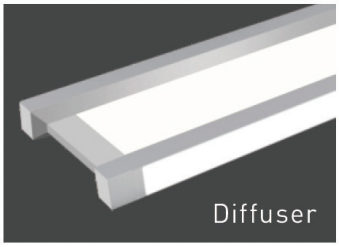
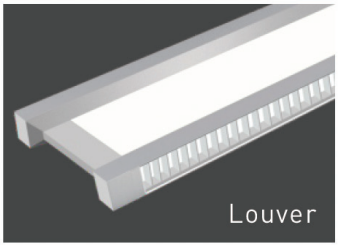
VERTICAL PENDANT LINEAR By VONN Lighting

VVL24CCT CCT Adjustable

PROJECT:	TYPE:	CATALOG#:	DATE:







DESCRIPTION

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 adjustable 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.

FEATURES

- 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 adjustable 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

DEMINSIONS



Theoretical Lumens: XXX LM (subject to change)
Theoretical Wattage: XXX W (subject to change)
***Please note lumens and wattage are subject to change and will be determined post production of the first articles.
*Any custom modifications are subject to minimum order quantity. (M.O.Q.)

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UL CERTIFIED
Adjustable CCT

VERTICAL PENDANT LINEAR By VONN Lighting

VVL24CCT CCT / Wattage Adjustable

PROJECT:	TYPE:	CATALOG#:	DATE:

STRUCTURE

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

• Finish
Extruded aluminum housing with powder coat white finish.

• Electrical

Min Internal: LED Driver	It is powered by Class 2 high efficiency LED driver, with a stan dard 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 or 110-347V * 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 25ºC ambient temperature, in compliance with IES LM-80 testing measurements.

.

• Approvals
- cULus listed
- DLC Qualification: DesignLights consortium qualified and classified for DLC Standard, refer to www.designlights.org for details.
- Suitable for damp locations
- Designed for indoor use only
- 5 years limited warranty

• Optional Function

Emergency: sensor



We can provide a factory-installed integrated system for multi-level control based on motion and/or daylight contribution with BR1810BI-level & daylight harvest mircowave 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

SAMPLE ORDERING SKU

1	2	3	4	5	6	7
VSL	SIZE	CCT	LUMENS	WATTAGE	DIMMING	VOLTAGE
1 - SKU	2 - SIZE	3 - CCT SELECTIBLE	4 - LUMENS	5 - WATTAGE	6 - DIMMING	7 - VOLTAGE
VVL24CCT	**2:** 2.3" x 4' FT	3000K 3500K 4000K	4000lm (40W)	40W	1-10V	110-277V

Theoretical Lumens: XXX LM (subject to change)
Theoretical Wattage: XXX W (subject to change)
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VVL24CCT CCT / Wattage Adjustable

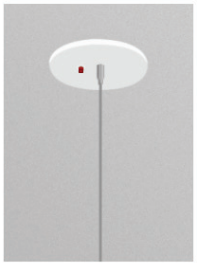
PROJECT:	TYPE:	CATALOG#:	DATE:

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)

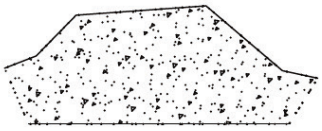

4.5" Square
(Power Feed)

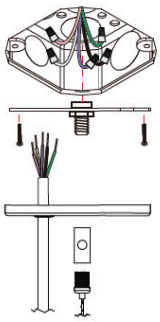

4.5" Square With
Emergency Driver
(Non Power Feed)

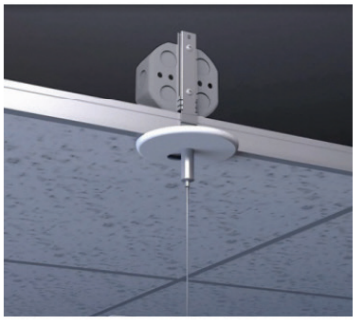


Dry Ceiling / Off Grid

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



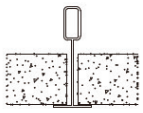


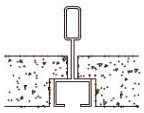


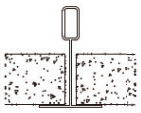
*Please see the installation instruction for more details.

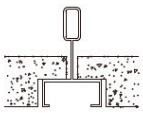
Drop Ceiling / On Grid

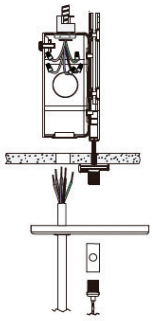
Suspending the luminaire in the T-grid. Compatible for various T-grid, including 9/16" Flat, 9/16" Slot, 15/16" Flat.


9/16" Flat Ceiling


9/16" Slot Ceiling


15/16" Flat Ceiling


15/16" Slot Ceiling



Theoretical Lumens: XXX LM (subject to change)
Theoretical Wattage: XXX W (subject to change)
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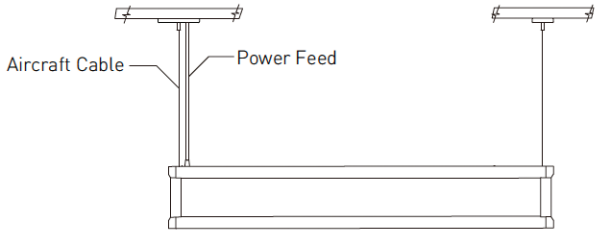
UL CERTIFIED
Adjustable CCT

VERTICAL PENDANT LINEAR By VONN Lighting

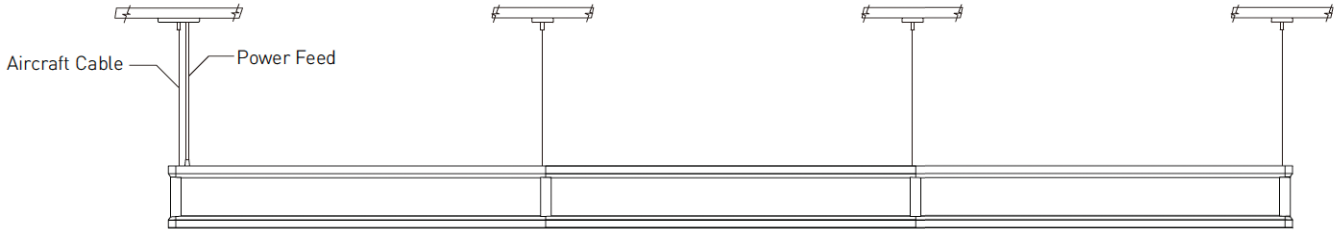
VVL24CCT CCT / Wattage Adjustable

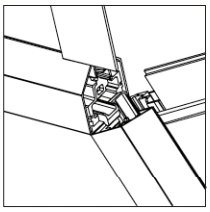
PROJECT:	TYPE:	CATALOG#:	DATE:

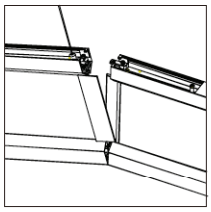
Individual

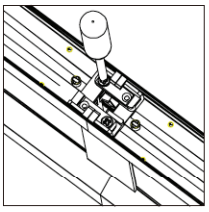


Continuous Run




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'	1	6	6
24	4' + 4' + 4' + 4'+ 4' + 4'	1	7	7
28	4' + 4' + 4' + 4'+ 4' + 4' + 4'	1	7	7
32	4' + 4' + 4' + 4'+ 4' + 4' + 4' + 4'	1	9	9
36	4' + 4' + 4' + 4'+ 4' + 4' + 4' + 4' + 4'	1	9	9
36	4' + 4' + 4' + 4'+ 4' + 4' + 4' + 4' + 4' + 4'	1	11	11

Theoretical Lumens: XXX LM (subject to change)

Theoretical Wattage: XXX W (subject to change)

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UL CERTIFIED

Adjustable CCT

VERTICAL PENDANT LINEAR

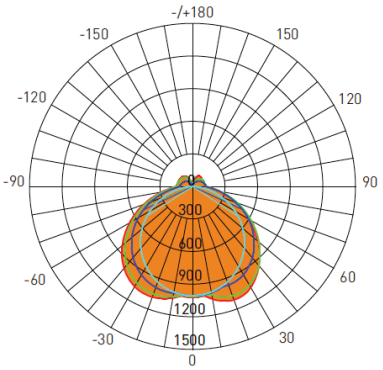
VVL24CCT CCT / Wattage Adjustable

By VONN Lighting

PROJECT:	TYPE:	CATALOG#:	DATE:

DISTRIBUTION DIAGRAM

Diffuser (Direct)



AVERAGE BEAM ANGLE(50%): 127.6°

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

T	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				

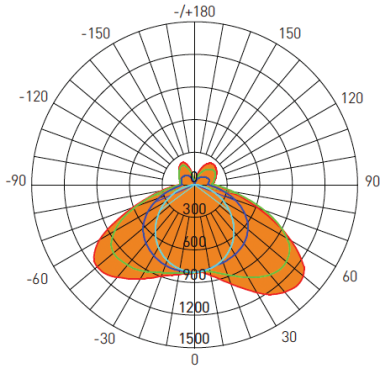
Zonal Lumens

T	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)



AVERAGE BEAM ANGLE(50%): 137.0°

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

T	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

T	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

Theoretical Lumens: XXX LM (subject to change)
Theoretical Wattage: XXX W (subject to change)
***Please note lumens and wattage are subject to change and will be determined post production of the first articles.
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UL CERTIFIED
Adjustable CCT

VERTICAL PENDANT LINEAR

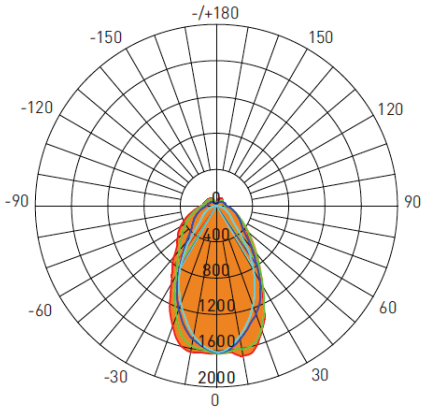
VVL24CCT CCT / Wattage Adjustable

By VONN Lighting

PROJECT:	TYPE:	CATALOG#:	DATE:

DISTRIBUTION DIAGRAM

Louver (Direct)



AVERAGE BEAM ANGLE(50%): 65.8°

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

ϒ	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

ϒ	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

Theoretical Lumens: XXX LM (subject to change)
Theoretical Wattage: XXX W (subject to change)
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