

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P622018

Luminaire Tested: VLT-WB-M-050U-125D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622018  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-32)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/28/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: VLT-WB-M-050U-125D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

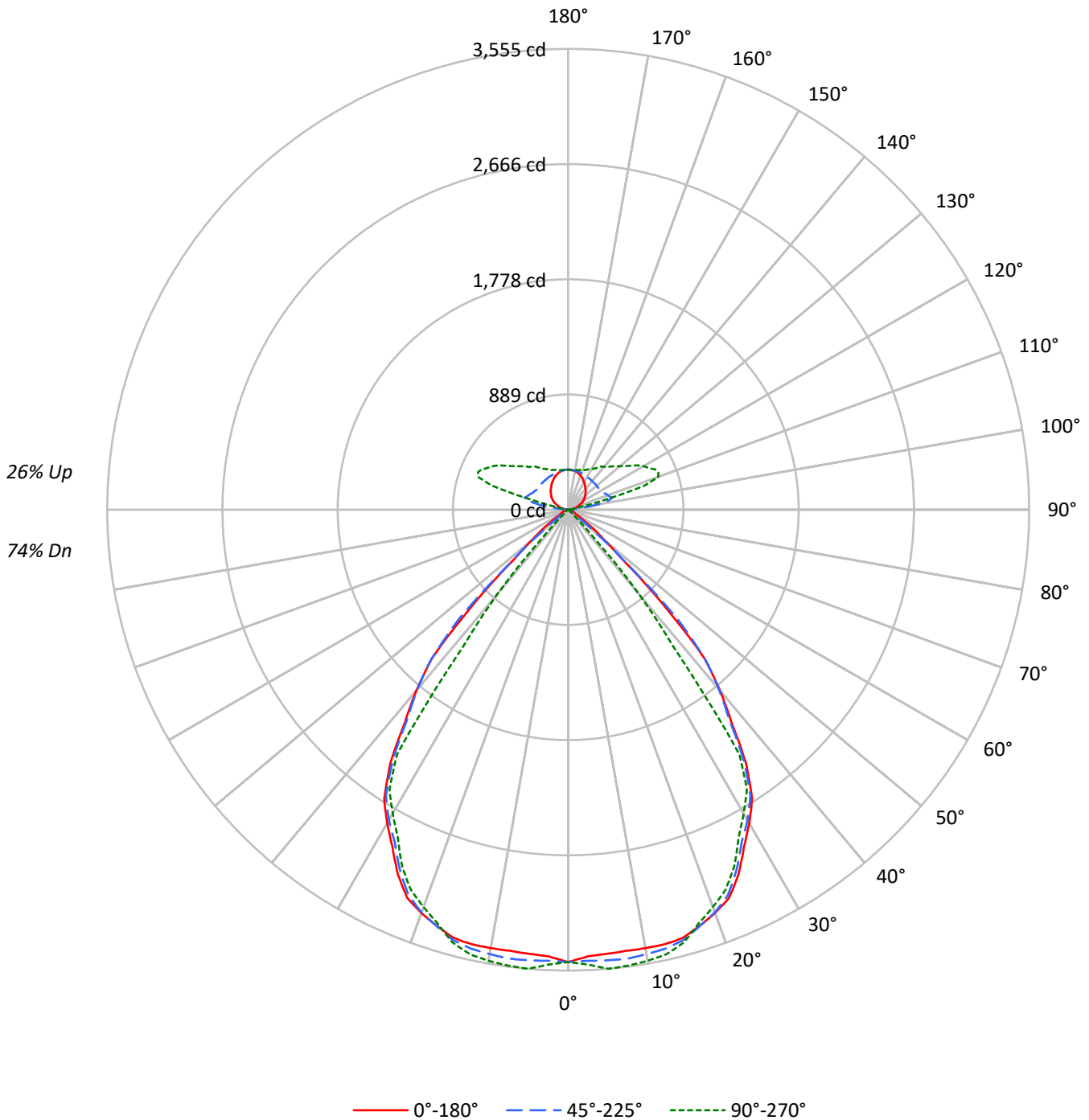
Lumens per Lamp: N/A  
Luminaire Lumens: 6499.6 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 65.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	74	74	74	74	
1	106	103	100	97	101	98	96	93	90	88	86	82	80	79	74	73	72	69	69	69	69	
2	99	94	89	85	95	90	86	82	82	79	77	76	73	71	69	68	66	63	63	63	63	
3	93	86	80	75	89	82	77	73	76	72	69	70	67	64	65	62	60	57	57	57	57	
4	87	78	72	67	83	75	70	65	70	65	62	65	61	58	60	57	55	53	53	53	53	
5	82	72	65	60	78	69	63	59	65	60	56	60	56	53	56	53	50	48	48	48	48	
6	76	66	59	54	73	64	58	53	60	55	51	56	52	49	52	49	46	44	44	44	44	
7	72	61	54	50	69	59	53	48	56	50	47	52	48	45	49	45	43	41	41	41	41	
8	67	57	50	45	65	55	49	44	52	46	43	49	44	41	46	42	39	37	37	37	37	
9	63	53	46	41	61	51	45	41	48	43	39	45	41	38	43	39	36	35	35	35	35	
10	60	49	42	38	57	48	42	38	45	40	36	43	38	35	40	36	34	32	32	32	32	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	25035	25035	25035
5°	24774	25130	25611
10°	25025	25367	25744
15°	25404	25532	25661
20°	25284	25246	24906
25°	24593	24300	24006
30°	23138	22913	22422
35°	20959	20656	20158
40°	17045	16930	8003
45°	10548	12027	551
50°	4025	3225	330
55°	1977	587	124
60°	957	284	36
65°	880	42	42
70°	829	52	52
75°	821	69	69
80°	818	103	0
85°	815	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 12027 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.2	5.1
10°-20°	966.5	14.9
20°-30°	1405.3	21.6
30°-40°	1398.5	21.5
40°-50°	615.0	9.5
50°-60°	90.8	1.4
60°-70°	20.7	0.3
70°-80°	7.7	0.1
80°-90°	2.5	0.0
90°-100°	38.0	0.6
100°-110°	270.7	4.2
110°-120°	367.5	5.7
120°-130°	299.1	4.6
130°-140°	240.5	3.7
140°-150°	189.6	2.9
150°-160°	138.7	2.1
160°-170°	86.1	1.3
170°-180°	29.4	0.5
0°-30°	2705.0	41.6
0°-40°	4103.4	63.1
0°-60°	4809.2	74.0
0°-90°	4840.1	74.5
90°-120°	676.1	10.4
90°-150°	1405.3	21.6
90°-180°	1659.0	25.5
0°-180°	6499.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3489	3489	3489	3489	3489	
5°	3439	3500	3489	3497	3555	328
15°	3420	3492	3437	3403	3454	961
25°	3106	3164	3069	2988	3032	1420
35°	2392	2385	2358	2308	2301	1465
45°	1039	1182	1185	78	54	805
55°	158	170	47	17	10	160
65°	52	45	2	2	2	52
75°	30	6	2	2	2	31
85°	10	0	0	0	0	10
90°	0	2	4	6	6	1
95°	16	29	16	18	21	17
105°	60	92	352	449	297	63
115°	107	130	303	630	736	106
125°	154	174	286	500	591	136
135°	190	211	288	411	472	146
145°	225	244	290	358	396	142
155°	264	274	295	325	340	121
165°	293	297	303	311	317	82
175°	309	311	309	307	305	29
180°	309	309	309	309	309	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3488.7	3488.7	3488.7	3488.7	3488.7
2.5°	3449.2	3501.3	3482.8	3481.5	3512.4
5°	3439.3	3499.7	3488.7	3497.4	3555.4
7.5°	3432.4	3493.2	3493.1	3489.0	3547.0
10°	3434.4	3497.1	3481.3	3475.2	3533.1
12.5°	3434.4	3501.0	3467.5	3451.5	3511.4
15°	3419.6	3492.0	3436.8	3403.4	3454.1
17.5°	3366.2	3444.9	3369.2	3304.0	3346.5
20°	3310.9	3395.4	3306.0	3222.9	3261.5
22.5°	3241.8	3316.6	3219.1	3132.1	3172.7
25°	3106.0	3163.9	3069.0	2988.5	3031.9
27.5°	2934.6	2966.5	2895.6	2818.3	2846.3
30°	2792.4	2816.6	2765.3	2691.5	2706.0
32.5°	2640.3	2656.8	2615.2	2551.3	2563.8
35°	2392.5	2385.2	2357.9	2308.3	2301.1
37.5°	2068.5	2056.0	2038.4	1846.8	1324.4
40°	1819.6	1824.5	1807.3	1129.5	854.3
42.5°	1556.9	1586.9	1562.4	769.1	279.5
45°	1039.4	1181.9	1185.1	78.5	54.3
47.5°	561.9	716.9	583.2	48.7	39.5
50°	360.5	449.8	288.9	36.9	29.6
52.5°	257.8	300.7	113.1	29.0	21.7
55°	158.0	170.1	46.9	17.1	9.9
57.5°	94.3	112.2	29.6	6.3	2.5
60°	66.7	78.7	19.8	2.5	2.5
62.5°	58.8	59.2	13.8	2.5	2.5
65°	51.8	44.6	2.5	2.5	2.5
67.5°	45.4	32.4	2.5	2.5	2.5
70°	39.5	22.6	2.5	2.5	2.5
72.5°	35.6	14.8	2.5	2.5	2.5
75°	29.6	5.5	2.5	2.5	2.5
77.5°	23.7	2.9	2.5	2.0	2.0
80°	19.8	2.9	2.5	0.0	0.0
82.5°	15.8	2.8	0.5	0.0	0.0
85°	9.9	0.2	0.0	0.0	0.0
87.5°	4.0	0.5	0.8	1.2	1.2
90°	0.0	1.9	3.9	5.8	5.8
92.5°	4.7	6.6	8.5	12.1	13.6
95°	15.5	28.8	15.5	17.6	21.4
97.5°	27.6	55.3	114.2	33.7	29.1
100°	36.9	69.2	229.3	67.5	44.7
102.5°	46.2	80.1	310.1	178.1	97.5
105°	60.2	92.5	351.7	449.3	297.3
107.5°	74.2	98.5	335.7	653.8	612.4
110°	83.5	106.3	326.4	687.0	738.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	92.9	115.7	317.1	667.6	753.9
115°	106.9	129.7	303.1	630.0	736.4
117.5°	121.2	143.7	299.6	589.3	698.7
120°	132.1	153.0	293.4	558.3	672.3
122.5°	139.9	162.3	285.6	531.6	636.5
125°	153.5	174.4	285.6	499.5	590.7
127.5°	164.8	186.0	286.0	462.1	552.2
130°	171.0	193.8	287.6	437.2	522.7
132.5°	178.8	201.5	287.6	425.9	496.2
135°	190.4	211.3	287.6	411.3	472.1
137.5°	200.1	222.5	287.6	395.2	447.3
140°	207.9	228.8	287.6	385.8	433.3
142.5°	215.7	235.0	289.1	374.8	419.3
145°	225.4	244.4	289.5	358.4	396.4
147.5°	237.0	253.8	291.8	346.5	375.8
150°	244.8	260.0	293.4	338.6	363.3
152.5°	252.6	266.3	293.4	332.3	352.5
155°	264.2	273.7	295.3	324.8	340.0
157.5°	273.6	282.7	297.7	320.1	331.1
160°	279.8	287.4	299.2	316.9	326.4
162.5°	284.4	292.0	300.8	315.3	321.8
165°	293.4	297.2	303.1	311.0	316.7
167.5°	298.4	301.9	305.0	309.0	312.4
170°	303.1	305.0	305.0	309.0	310.9
172.5°	304.7	308.1	306.6	307.4	309.3
175°	308.9	310.8	308.9	306.9	305.0
177.5°	308.9	310.4	308.9	308.9	307.4
180°	308.9	308.9	308.9	308.9	308.9



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	5.32	6.15	6.08	6.89	7.78	0.00	0.00	0.00	0.00	0.00
	3H	5.77	6.50	6.54	7.25	8.17	0.00	0.00	0.00	0.00	0.00
	4H	5.93	6.61	6.72	7.38	8.31	0.00	0.00	0.00	0.00	0.00
	6H	6.12	6.74	6.92	7.52	8.46	0.00	0.00	0.00	0.00	0.00
	8H	6.21	6.79	7.02	7.58	8.53	0.00	0.00	0.00	0.00	0.00
	12H	6.28	6.83	7.09	7.62	8.59	0.00	0.00	0.00	0.00	0.00
4H	2H	5.03	5.71	5.82	6.48	7.41	0.00	0.00	0.00	0.00	0.00
	3H	5.51	6.07	6.31	6.87	7.82	0.00	0.00	0.00	0.00	0.00
	4H	5.69	6.19	6.50	6.99	7.97	0.00	0.00	0.00	0.00	0.00
	6H	5.92	6.35	6.75	7.17	8.16	0.00	0.00	0.00	0.00	0.00
	8H	6.04	6.44	6.87	7.26	8.25	0.00	0.00	0.00	0.00	0.00
	12H	6.15	6.50	7.00	7.35	8.34	0.00	0.00	0.00	0.00	0.00
8H	4H	5.52	5.92	6.35	6.73	7.73	0.00	0.00	0.00	0.00	0.00
	6H	5.75	6.07	6.61	6.94	7.93	0.00	0.00	0.00	0.00	0.00
	8H	5.88	6.17	6.75	7.03	8.04	0.00	0.00	0.00	0.00	0.00
	12H	6.02	6.27	6.89	7.12	8.19	0.00	0.00	0.00	0.00	0.00
12H	4H	5.45	5.80	6.29	6.64	7.64	0.00	0.00	0.00	0.00	0.00
	6H	5.69	5.97	6.56	6.83	7.85	0.00	0.00	0.00	0.00	0.00
	8H	5.82	6.07	6.69	6.92	7.99	0.00	0.00	0.00	0.00	0.00