

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: P622052

Luminaire Tested: VLT-WB-M-100U-100D-935-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622052  
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-100U-100D-935-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

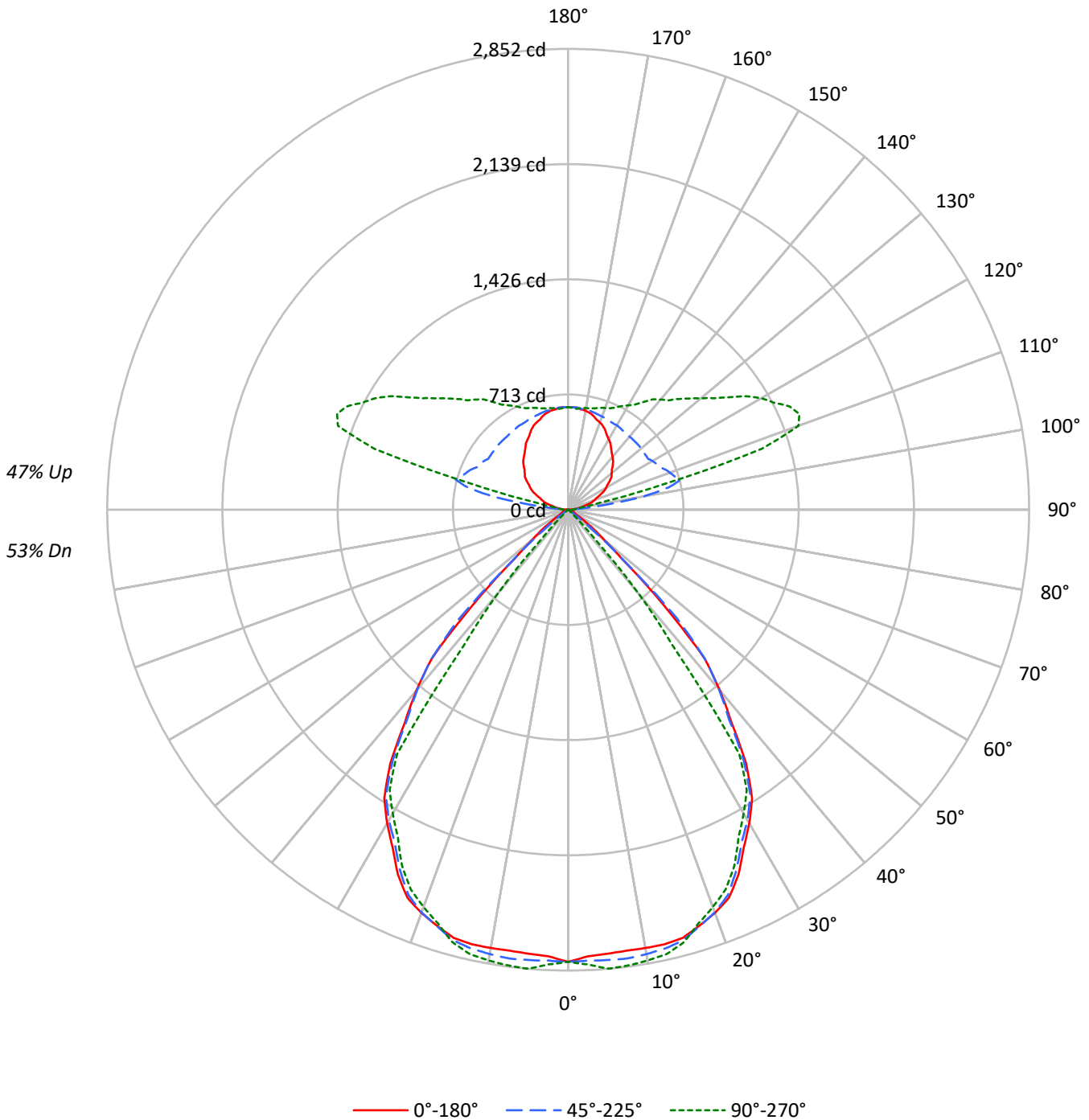
Lumens per Lamp: N/A  
Luminaire Lumens: 7289.4 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 71.7  
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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53				
1	101	97	94	91	93	90	88	85	78	76	74	66	65	64	56	55	54	49				
2	94	88	83	78	87	82	78	74	71	68	65	61	59	57	52	50	49	45				
3	87	79	73	68	81	74	69	65	65	61	58	56	54	51	48	46	45	41				
4	81	72	65	60	75	68	62	57	59	55	52	52	49	46	45	43	41	38				
5	75	65	59	53	70	62	56	51	55	50	46	48	44	42	42	39	37	34				
6	70	60	53	48	66	56	50	46	50	45	42	44	41	38	39	36	34	32				
7	66	55	48	43	61	52	46	41	46	42	38	41	37	35	36	33	31	29				
8	61	51	44	39	57	48	42	38	43	38	35	38	34	32	34	31	29	27				
9	58	47	40	35	54	44	38	34	40	35	32	36	32	29	32	29	27	25				
10	54	43	37	32	51	41	35	31	37	32	29	33	30	27	30	27	25	23				

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

	0°	45°	90°
0°	20078	20078	20078
5°	19870	20155	20540
10°	20070	20345	20647
15°	20375	20478	20581
20°	20278	20248	19976
25°	19724	19489	19254
30°	18557	18377	17983
35°	16809	16566	16167
40°	13671	13578	6418
45°	8461	9646	442
50°	3227	2587	266
55°	1585	470	99
60°	768	227	29
65°	706	34	34
70°	665	42	42
75°	660	55	55
80°	653	83	0
85°	650	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 9646 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.2	3.7
10°-20°	775.2	10.6
20°-30°	1127.1	15.5
30°-40°	1121.6	15.4
40°-50°	493.2	6.8
50°-60°	72.8	1.0
60°-70°	16.6	0.2
70°-80°	6.2	0.1
80°-90°	2.9	0.0
90°-100°	78.0	1.1
100°-110°	555.6	7.6
110°-120°	754.3	10.3
120°-130°	613.9	8.4
130°-140°	493.8	6.8
140°-150°	389.3	5.3
150°-160°	284.7	3.9
160°-170°	176.8	2.4
170°-180°	60.3	0.8
0°-30°	2169.4	29.8
0°-40°	3291.0	45.1
0°-60°	3857.1	52.9
0°-90°	3882.7	53.3
90°-120°	1387.9	19.0
90°-150°	2884.9	39.6
90°-180°	3407.0	46.7
0°-180°	7289.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2798	2798	2798	2798	2798	
5°	2758	2807	2798	2805	2852	263
15°	2743	2801	2756	2730	2770	771
25°	2491	2538	2461	2397	2432	1139
35°	1919	1913	1891	1851	1846	1175
45°	834	948	950	63	44	646
55°	127	136	38	14	8	128
65°	42	36	2	2	2	41
75°	24	4	2	2	2	25
85°	8	0	0	0	0	8
90°	0	4	8	12	12	2
95°	32	59	32	36	44	36
105°	124	190	722	922	610	130
115°	219	266	622	1293	1512	218
125°	315	358	586	1025	1212	280
135°	391	434	590	844	969	301
145°	463	502	594	736	814	291
155°	542	562	606	667	698	249
165°	602	610	622	638	650	169
175°	634	638	634	630	626	60
180°	634	634	634	634	634	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2798.0	2798.0	2798.0	2798.0	2798.0
2.5°	2766.3	2808.1	2793.2	2792.2	2817.0
5°	2758.4	2806.8	2798.0	2805.0	2851.5
7.5°	2752.9	2801.6	2801.6	2798.3	2844.7
10°	2754.4	2804.8	2792.1	2787.2	2833.6
12.5°	2754.4	2807.9	2781.0	2768.2	2816.2
15°	2742.6	2800.6	2756.4	2729.6	2770.3
17.5°	2699.8	2762.9	2702.2	2649.9	2683.9
20°	2655.4	2723.2	2651.5	2584.8	2615.8
22.5°	2600.0	2660.0	2581.8	2512.0	2544.5
25°	2491.1	2537.5	2461.4	2396.8	2431.7
27.5°	2353.6	2379.2	2322.4	2260.3	2282.8
30°	2239.6	2259.0	2217.8	2158.7	2170.3
32.5°	2117.6	2130.8	2097.4	2046.2	2056.2
35°	1918.8	1913.0	1891.1	1851.3	1845.5
37.5°	1659.0	1648.9	1634.8	1481.2	1062.2
40°	1459.4	1463.3	1449.5	905.9	685.1
42.5°	1248.7	1272.7	1253.1	616.8	224.2
45°	833.7	947.9	950.5	62.9	43.6
47.5°	450.7	575.0	467.7	39.0	31.7
50°	289.1	360.7	231.7	29.6	23.8
52.5°	206.7	241.2	90.7	23.2	17.4
55°	126.7	136.4	37.6	13.7	7.9
57.5°	75.6	90.0	23.8	5.1	2.0
60°	53.5	63.1	15.8	2.0	2.0
62.5°	47.1	47.5	11.1	2.0	2.0
65°	41.6	35.8	2.0	2.0	2.0
67.5°	36.4	26.0	2.0	2.0	2.0
70°	31.7	18.1	2.0	2.0	2.0
72.5°	28.5	11.9	2.0	2.0	2.0
75°	23.8	4.4	2.0	2.0	2.0
77.5°	19.0	2.4	2.0	1.6	1.6
80°	15.8	2.3	2.0	0.0	0.0
82.5°	12.7	2.2	0.4	0.0	0.0
85°	7.9	0.2	0.0	0.0	0.0
87.5°	3.2	0.9	1.6	2.4	2.4
90°	0.0	3.9	8.0	12.0	12.0
92.5°	9.6	13.5	17.5	24.8	27.9
95°	31.9	59.2	31.9	36.1	43.9
97.5°	56.6	113.6	234.5	69.2	59.8
100°	75.8	142.1	470.7	138.5	91.7
102.5°	94.9	164.3	636.6	365.6	200.2
105°	123.6	189.9	721.9	922.3	610.3
107.5°	152.4	202.3	689.2	1342.2	1257.2
110°	171.5	218.3	670.1	1410.4	1515.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	190.7	237.5	650.9	1370.5	1547.6
115°	219.4	266.2	622.2	1293.3	1511.7
117.5°	248.9	294.9	615.0	1209.7	1434.3
120°	271.2	314.1	602.3	1146.1	1380.1
122.5°	287.2	333.2	586.3	1091.4	1306.7
125°	315.1	358.0	586.3	1025.3	1212.5
127.5°	338.2	381.9	587.1	948.7	1133.6
130°	351.0	397.8	590.3	897.4	1072.9
132.5°	367.0	413.8	590.3	874.4	1018.7
135°	390.9	433.8	590.3	844.4	969.2
137.5°	410.8	456.8	590.3	811.3	918.2
140°	426.8	469.7	590.3	792.0	889.5
142.5°	442.7	482.5	593.5	769.5	860.7
145°	462.7	501.7	594.3	735.7	813.7
147.5°	486.6	520.9	599.1	711.3	771.4
150°	502.6	533.8	602.3	695.2	745.9
152.5°	518.5	546.6	602.3	682.2	723.5
155°	542.5	562.0	606.3	666.8	698.0
157.5°	561.6	580.3	611.1	657.0	679.7
160°	574.4	590.0	614.2	650.6	670.1
162.5°	583.9	599.5	617.4	647.3	660.5
165°	602.3	610.1	622.2	638.4	650.1
167.5°	612.7	619.7	626.2	634.4	641.4
170°	622.2	626.1	626.2	634.3	638.2
172.5°	625.4	632.4	629.4	631.1	635.0
175°	634.2	638.1	634.2	630.1	626.2
177.5°	634.2	637.3	634.2	634.1	631.0
180°	634.2	634.2	634.2	634.2	634.2



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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	2.69	3.40	3.66	4.35	5.59	0.00	0.00	0.00	0.00	0.00
	3H	3.13	3.76	4.11	4.72	5.98	0.00	0.00	0.00	0.00	0.00
	4H	3.29	3.88	4.29	4.85	6.12	0.00	0.00	0.00	0.00	0.00
	6H	3.48	4.02	4.48	4.99	6.27	0.00	0.00	0.00	0.00	0.00
	8H	3.56	4.07	4.57	5.06	6.34	0.00	0.00	0.00	0.00	0.00
	12H	3.63	4.11	4.63	5.09	6.39	0.00	0.00	0.00	0.00	0.00
4H	2H	2.39	2.98	3.39	3.95	5.22	0.00	0.00	0.00	0.00	0.00
	3H	2.87	3.35	3.87	4.35	5.63	0.00	0.00	0.00	0.00	0.00
	4H	3.04	3.48	4.05	4.47	5.78	0.00	0.00	0.00	0.00	0.00
	6H	3.27	3.65	4.29	4.66	5.97	0.00	0.00	0.00	0.00	0.00
	8H	3.39	3.74	4.41	4.75	6.07	0.00	0.00	0.00	0.00	0.00
	12H	3.50	3.81	4.53	4.83	6.15	0.00	0.00	0.00	0.00	0.00
8H	4H	2.87	3.22	3.89	4.23	5.54	0.00	0.00	0.00	0.00	0.00
	6H	3.10	3.39	4.15	4.44	5.75	0.00	0.00	0.00	0.00	0.00
	8H	3.24	3.49	4.29	4.53	5.86	0.00	0.00	0.00	0.00	0.00
	12H	3.37	3.59	4.42	4.62	6.00	0.00	0.00	0.00	0.00	0.00
12H	4H	2.80	3.11	3.83	4.13	5.46	0.00	0.00	0.00	0.00	0.00
	6H	3.04	3.29	4.10	4.33	5.67	0.00	0.00	0.00	0.00	0.00
	8H	3.17	3.39	4.22	4.42	5.80	0.00	0.00	0.00	0.00	0.00