

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P622063

Luminaire Tested: VLT-WB-M-125U-100D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622063  
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-125U-100D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

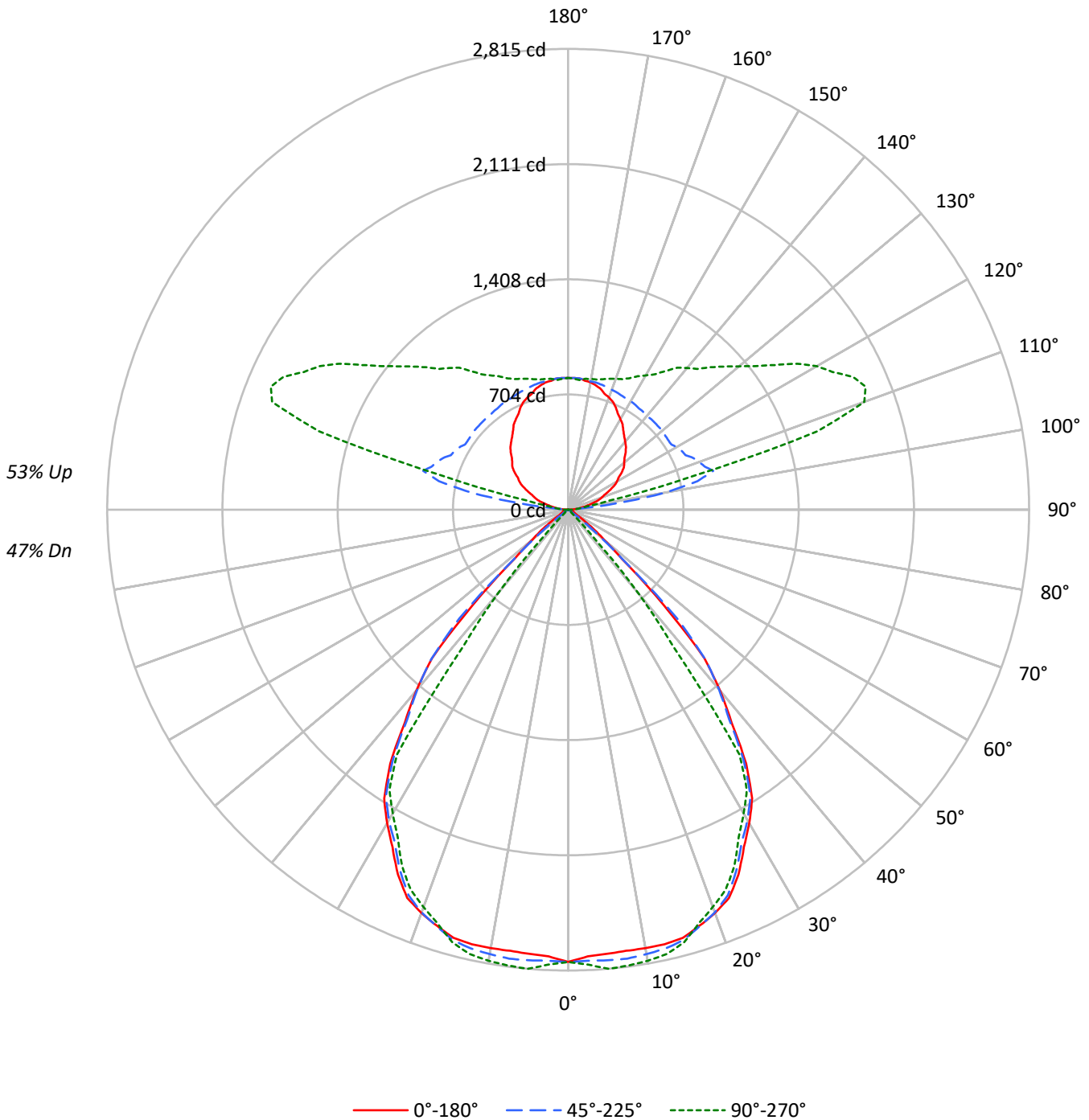
Lumens per Lamp: N/A  
Luminaire Lumens: 8159.6 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): 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	0
RCR																				
0	106	106	106	106	98	98	98	98	82	82	82		67	67	67		53	53	53	47
1	99	95	92	89	91	88	85	83	74	73	71		62	61	59		50	49	49	43
2	92	86	81	76	85	79	75	72	68	65	62		57	55	53		47	45	44	40
3	85	77	71	66	79	72	67	62	62	58	55		52	50	47		43	42	40	36
4	79	70	63	58	73	65	59	55	56	52	49		48	45	43		40	38	37	33
5	73	64	57	51	68	59	53	49	52	47	44		44	41	38		37	35	33	30
6	68	58	51	46	63	54	48	44	47	43	39		41	37	35		35	32	31	28
7	64	53	46	41	59	50	44	39	44	39	35		38	34	32		32	30	28	26
8	60	49	42	37	55	46	40	35	40	36	32		35	32	29		30	28	26	24
9	56	45	38	34	52	42	36	32	37	33	29		33	29	27		28	26	24	22
10	52	42	35	31	49	39	33	29	35	30	27		31	27	25		27	24	22	20

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

	0°	45°	90°
0°	19823	19823	19823
5°	19617	19899	20279
10°	19815	20086	20385
15°	20116	20217	20319
20°	20020	19990	19721
25°	19473	19240	19008
30°	18321	18143	17755
35°	16595	16355	15961
40°	13497	13406	6336
45°	8352	9523	436
50°	3186	2553	262
55°	1565	464	98
60°	758	224	29
65°	698	34	34
70°	657	42	42
75°	652	55	55
80°	645	83	0
85°	642	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 9523 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.8	3.2
10°-20°	765.3	9.4
20°-30°	1112.7	13.6
30°-40°	1107.3	13.6
40°-50°	486.9	6.0
50°-60°	71.9	0.9
60°-70°	16.4	0.2
70°-80°	6.1	0.1
80°-90°	3.2	0.0
90°-100°	99.0	1.2
100°-110°	705.5	8.6
110°-120°	957.8	11.7
120°-130°	779.6	9.6
130°-140°	627.0	7.7
140°-150°	494.3	6.1
150°-160°	361.4	4.4
160°-170°	224.5	2.8
170°-180°	76.6	0.9
0°-30°	2141.8	26.2
0°-40°	3249.1	39.8
0°-60°	3808.0	46.7
0°-90°	3833.7	47.0
90°-120°	1762.4	21.6
90°-150°	3663.3	44.9
90°-180°	4326.0	53.0
0°-180°	8159.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2762	2762	2762	2762	2762	
5°	2723	2771	2762	2769	2815	260
15°	2708	2765	2721	2695	2735	761
25°	2459	2505	2430	2366	2401	1124
35°	1894	1889	1867	1828	1822	1160
45°	823	936	938	62	43	637
55°	125	135	37	14	8	126
65°	41	35	2	2	2	41
75°	24	4	2	2	2	25
85°	8	0	0	0	0	8
90°	0	5	10	15	15	2
95°	40	75	40	46	56	45
105°	157	241	917	1171	775	166
115°	279	338	790	1642	1920	277
125°	400	455	744	1302	1540	356
135°	496	551	750	1072	1231	382
145°	588	637	755	934	1033	369
155°	689	714	770	847	886	316
165°	765	775	790	811	826	215
175°	805	810	805	800	795	76
180°	805	805	805	805	805	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2762.4	2762.4	2762.4	2762.4	2762.4
2.5°	2731.1	2772.4	2757.7	2756.7	2781.2
5°	2723.3	2771.1	2762.4	2769.3	2815.2
7.5°	2717.8	2766.0	2765.9	2762.7	2808.5
10°	2719.4	2769.1	2756.5	2751.7	2797.6
12.5°	2719.4	2772.1	2745.6	2733.0	2780.4
15°	2707.7	2765.0	2721.3	2694.9	2735.0
17.5°	2665.4	2727.7	2667.8	2616.1	2649.8
20°	2621.6	2688.5	2617.7	2552.0	2582.5
22.5°	2566.9	2626.2	2548.9	2480.0	2512.2
25°	2459.4	2505.3	2430.0	2366.3	2400.7
27.5°	2323.7	2348.9	2292.8	2231.5	2253.7
30°	2211.1	2230.2	2189.6	2131.2	2142.7
32.5°	2090.7	2103.7	2070.7	2020.1	2030.1
35°	1894.4	1888.6	1867.0	1827.8	1822.0
37.5°	1637.9	1627.9	1614.0	1462.3	1048.7
40°	1440.8	1444.6	1431.1	894.3	676.4
42.5°	1232.8	1256.5	1237.1	609.0	221.3
45°	823.0	935.8	938.4	62.1	43.0
47.5°	445.0	567.7	461.8	38.5	31.3
50°	285.4	356.2	228.7	29.2	23.5
52.5°	204.1	238.1	89.5	22.9	17.2
55°	125.1	134.7	37.1	13.6	7.8
57.5°	74.7	88.8	23.5	5.0	2.0
60°	52.8	62.3	15.6	2.0	2.0
62.5°	46.5	46.9	10.9	2.0	2.0
65°	41.1	35.3	2.0	2.0	2.0
67.5°	36.0	25.6	2.0	2.0	2.0
70°	31.3	17.9	2.0	2.0	2.0
72.5°	28.2	11.7	2.0	2.0	2.0
75°	23.5	4.3	2.0	2.0	2.0
77.5°	18.8	2.3	2.0	1.6	1.6
80°	15.6	2.3	2.0	0.0	0.0
82.5°	12.5	2.2	0.4	0.0	0.0
85°	7.8	0.2	0.0	0.0	0.0
87.5°	3.1	1.1	2.0	3.0	3.0
90°	0.0	5.0	10.1	15.2	15.2
92.5°	12.2	17.1	22.3	31.5	35.5
95°	40.5	75.2	40.5	45.8	55.7
97.5°	71.9	144.2	297.8	87.9	76.0
100°	96.2	180.4	597.6	175.9	116.5
102.5°	120.5	208.7	808.3	464.2	254.2
105°	157.0	241.2	916.7	1171.1	774.9
107.5°	193.5	256.9	875.2	1704.4	1596.4
110°	217.8	277.2	850.9	1790.9	1924.6



TEST NUMBER: P622063

CATALOG NUMBER: VLT-WB-M-125U-100D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	242.1	301.5	826.6	1740.3	1965.1
115°	278.6	338.0	790.1	1642.2	1919.5
117.5°	316.0	374.5	781.0	1536.0	1821.3
120°	344.4	398.9	764.8	1455.3	1752.4
122.5°	364.7	423.1	744.5	1385.8	1659.2
125°	400.1	454.6	744.5	1302.0	1539.7
127.5°	429.5	485.0	745.5	1204.7	1439.4
130°	445.7	505.1	749.6	1139.6	1362.4
132.5°	466.0	525.4	749.6	1110.3	1293.5
135°	496.3	550.8	749.6	1072.3	1230.7
137.5°	521.7	580.1	749.6	1030.2	1165.9
140°	541.9	596.4	749.6	1005.6	1129.4
142.5°	562.2	612.7	753.6	977.1	1093.0
145°	587.5	637.0	754.6	934.2	1033.2
147.5°	617.9	661.5	760.7	903.3	979.5
150°	638.2	677.8	764.8	882.7	947.1
152.5°	658.4	694.1	764.8	866.2	918.7
155°	688.8	713.6	769.8	846.7	886.3
157.5°	713.1	736.9	775.9	834.3	863.0
160°	729.3	749.1	780.0	826.1	850.9
162.5°	741.5	761.3	784.0	821.9	838.7
165°	764.8	774.7	790.1	810.7	825.6
167.5°	777.9	786.9	795.2	805.5	814.4
170°	790.1	795.1	795.2	805.4	810.4
172.5°	794.2	803.1	799.2	801.4	806.3
175°	805.3	810.2	805.3	800.1	795.2
177.5°	805.3	809.3	805.3	805.2	801.2
180°	805.3	805.3	805.3	805.3	805.3



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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	2.03	2.71	3.05	3.71	5.04	0.00	0.00	0.00	0.00	0.00
	3H	2.47	3.07	3.50	4.08	5.43	0.00	0.00	0.00	0.00	0.00
	4H	2.63	3.20	3.67	4.21	5.57	0.00	0.00	0.00	0.00	0.00
	6H	2.81	3.33	3.86	4.35	5.72	0.00	0.00	0.00	0.00	0.00
	8H	2.89	3.39	3.95	4.42	5.78	0.00	0.00	0.00	0.00	0.00
	12H	2.96	3.43	4.02	4.45	5.84	0.00	0.00	0.00	0.00	0.00
4H	2H	1.73	2.29	2.78	3.31	4.67	0.00	0.00	0.00	0.00	0.00
	3H	2.20	2.67	3.25	3.71	5.08	0.00	0.00	0.00	0.00	0.00
	4H	2.38	2.80	3.43	3.84	5.23	0.00	0.00	0.00	0.00	0.00
	6H	2.61	2.97	3.67	4.03	5.42	0.00	0.00	0.00	0.00	0.00
	8H	2.73	3.06	3.79	4.11	5.51	0.00	0.00	0.00	0.00	0.00
	12H	2.83	3.14	3.91	4.20	5.60	0.00	0.00	0.00	0.00	0.00
8H	4H	2.20	2.54	3.27	3.59	4.99	0.00	0.00	0.00	0.00	0.00
	6H	2.44	2.71	3.52	3.81	5.20	0.00	0.00	0.00	0.00	0.00
	8H	2.57	2.82	3.67	3.89	5.31	0.00	0.00	0.00	0.00	0.00
	12H	2.71	2.92	3.80	3.99	5.45	0.00	0.00	0.00	0.00	0.00
12H	4H	2.13	2.44	3.21	3.50	4.90	0.00	0.00	0.00	0.00	0.00
	6H	2.38	2.62	3.47	3.70	5.12	0.00	0.00	0.00	0.00	0.00
	8H	2.51	2.72	3.60	3.79	5.25	0.00	0.00	0.00	0.00	0.00