

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: P622068

Luminaire Tested: VLT-WB-M-125U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622068  
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-125D-940-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

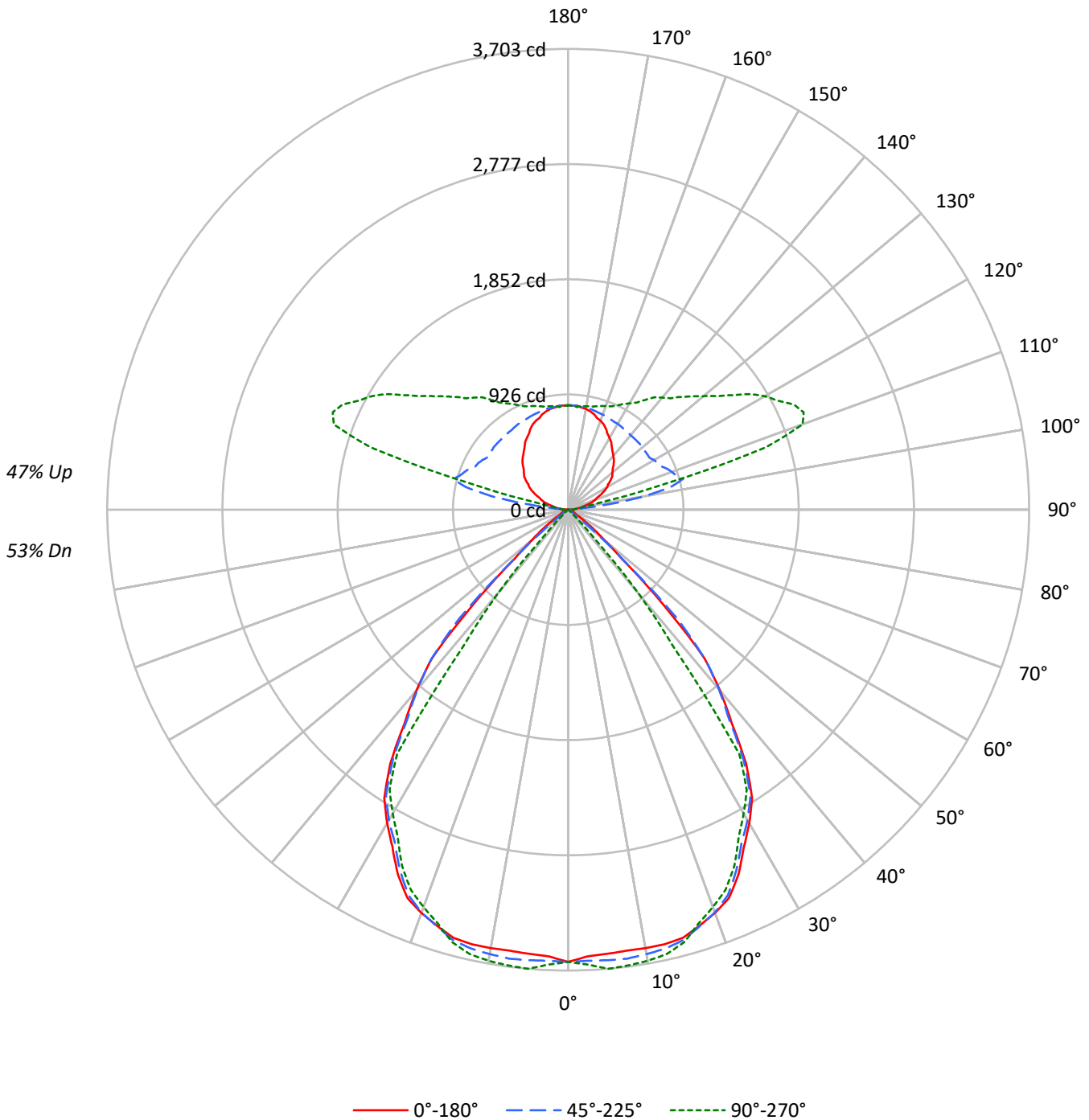
Lumens per Lamp: N/A  
Luminaire Lumens: 9547.4 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 93.2  
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	71	71	71	59	59	59	53				
1	100	97	94	91	93	90	88	85	78	76	74	66	65	64	55	54	54	49				
2	93	87	82	78	87	82	77	74	71	68	65	61	59	57	51	50	49	45				
3	87	79	73	68	81	74	69	65	65	61	58	56	53	51	48	46	44	41				
4	81	72	65	60	75	67	62	57	59	55	51	52	48	46	44	42	41	37				
5	75	65	58	53	70	62	55	51	54	50	46	48	44	42	41	39	37	34				
6	70	60	53	48	65	56	50	46	50	45	42	44	40	38	39	36	34	31				
7	65	55	48	43	61	52	46	41	46	41	38	41	37	34	36	33	31	29				
8	61	50	44	39	57	48	42	37	43	38	34	38	34	32	34	31	29	27				
9	57	47	40	35	54	44	38	34	40	35	32	35	32	29	31	29	27	25				
10	54	43	37	32	51	41	35	31	37	32	29	33	29	27	29	27	25	23				

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

	0°	45°	90°
0°	26073	26073	26073
5°	25802	26173	26673
10°	26064	26419	26813
15°	26458	26592	26725
20°	26333	26294	25940
25°	25613	25308	25002
30°	24098	23864	23353
35°	21828	21512	20995
40°	17752	17632	8334
45°	10987	12526	574
50°	4191	3359	345
55°	2059	612	129
60°	996	296	37
65°	917	44	44
70°	862	55	55
75°	857	72	72
80°	851	107	0
85°	848	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 12526 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.0	3.6
10°-20°	1006.6	10.5
20°-30°	1463.6	15.3
30°-40°	1456.5	15.3
40°-50°	640.5	6.7
50°-60°	94.6	1.0
60°-70°	21.6	0.2
70°-80°	8.1	0.1
80°-90°	3.7	0.0
90°-100°	103.1	1.1
100°-110°	734.8	7.7
110°-120°	997.6	10.4
120°-130°	811.9	8.5
130°-140°	653.0	6.8
140°-150°	514.8	5.4
150°-160°	376.4	3.9
160°-170°	233.8	2.4
170°-180°	79.7	0.8
0°-30°	2817.2	29.5
0°-40°	4273.7	44.8
0°-60°	5008.7	52.5
0°-90°	5042.1	52.8
90°-120°	1835.5	19.2
90°-150°	3815.3	40.0
90°-180°	4505.0	47.2
0°-180°	9547.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3633	3633	3633	3633	3633	
5°	3582	3645	3633	3642	3703	342
15°	3561	3637	3579	3545	3597	1001
25°	3235	3295	3196	3112	3158	1479
35°	2492	2484	2456	2404	2397	1525
45°	1083	1231	1234	82	57	838
55°	165	177	49	18	10	166
65°	54	46	3	3	3	54
75°	31	6	3	3	3	33
85°	10	0	0	0	0	11
90°	0	5	10	16	16	2
95°	42	78	42	48	58	47
105°	164	251	955	1220	807	172
115°	290	352	823	1710	1999	288
125°	417	473	775	1356	1604	370
135°	517	574	781	1117	1282	398
145°	612	664	786	973	1076	384
155°	717	743	802	882	923	329
165°	796	807	823	844	860	224
175°	839	844	839	833	828	79
180°	839	839	839	839	839	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3633.4	3633.4	3633.4	3633.4	3633.4
2.5°	3592.3	3646.6	3627.3	3625.9	3658.1
5°	3582.0	3644.9	3633.4	3642.5	3702.9
7.5°	3574.8	3638.2	3638.1	3633.8	3694.1
10°	3576.9	3642.2	3625.7	3619.4	3679.7
12.5°	3576.9	3646.3	3611.3	3594.7	3657.1
15°	3561.4	3636.9	3579.4	3544.6	3597.4
17.5°	3505.9	3587.9	3509.0	3441.1	3485.3
20°	3448.3	3536.3	3443.2	3356.6	3396.9
22.5°	3376.3	3454.2	3352.6	3262.1	3304.3
25°	3234.9	3295.2	3196.3	3112.5	3157.7
27.5°	3056.4	3089.6	3015.8	2935.2	2964.4
30°	2908.3	2933.4	2880.0	2803.2	2818.3
32.5°	2749.9	2767.0	2723.7	2657.1	2670.2
35°	2491.7	2484.2	2455.7	2404.1	2396.6
37.5°	2154.4	2141.3	2123.0	1923.4	1379.3
40°	1895.1	1900.2	1882.3	1176.3	889.7
42.5°	1621.5	1652.7	1627.2	801.0	291.1
45°	1082.6	1230.9	1234.3	81.7	56.6
47.5°	585.3	746.7	607.4	50.7	41.1
50°	375.4	468.5	300.9	38.4	30.9
52.5°	268.5	313.2	117.8	30.2	22.6
55°	164.6	177.1	48.9	17.8	10.3
57.5°	98.2	116.8	30.9	6.6	2.6
60°	69.4	82.0	20.6	2.6	2.6
62.5°	61.2	61.7	14.4	2.6	2.6
65°	54.0	46.5	2.6	2.6	2.6
67.5°	47.3	33.7	2.6	2.6	2.6
70°	41.1	23.5	2.6	2.6	2.6
72.5°	37.0	15.4	2.6	2.6	2.6
75°	30.9	5.7	2.6	2.6	2.6
77.5°	24.7	3.1	2.6	2.1	2.1
80°	20.6	3.0	2.6	0.0	0.0
82.5°	16.5	2.9	0.5	0.0	0.0
85°	10.3	0.2	0.0	0.0	0.0
87.5°	4.1	1.1	2.1	3.2	3.2
90°	0.0	5.2	10.5	15.8	15.8
92.5°	12.7	17.8	23.2	32.8	36.9
95°	42.2	78.3	42.2	47.7	58.0
97.5°	74.9	150.2	310.2	91.5	79.1
100°	100.2	187.9	622.4	183.2	121.3
102.5°	125.5	217.3	841.9	483.5	264.8
105°	163.5	251.2	954.8	1219.7	807.1
107.5°	201.5	267.5	911.5	1775.1	1662.6
110°	226.8	288.7	886.2	1865.2	2004.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	252.1	314.0	860.9	1812.5	2046.7
115°	290.1	352.0	822.9	1710.4	1999.2
117.5°	329.2	390.0	813.4	1599.8	1896.8
120°	358.7	415.4	796.5	1515.6	1825.1
122.5°	379.8	440.7	775.4	1443.3	1728.1
125°	416.7	473.4	775.4	1356.0	1603.6
127.5°	447.3	505.1	776.5	1254.6	1499.1
130°	464.2	526.1	780.7	1186.8	1418.9
132.5°	485.3	547.2	780.7	1156.4	1347.2
135°	516.9	573.7	780.7	1116.8	1281.8
137.5°	543.3	604.2	780.7	1073.0	1214.3
140°	564.4	621.1	780.7	1047.4	1176.3
142.5°	585.5	638.1	784.9	1017.6	1138.3
145°	611.9	663.5	786.0	972.9	1076.1
147.5°	643.5	688.9	792.3	940.7	1020.2
150°	664.6	705.9	796.5	919.4	986.4
152.5°	685.7	722.9	796.5	902.2	956.9
155°	717.4	743.2	801.8	881.8	923.1
157.5°	742.7	767.5	808.1	868.9	898.8
160°	759.6	780.2	812.3	860.4	886.2
162.5°	772.2	792.9	816.6	856.0	873.5
165°	796.5	806.8	822.9	844.3	859.8
167.5°	810.2	819.5	828.2	838.9	848.2
170°	822.9	828.0	828.2	838.8	844.0
172.5°	827.1	836.4	832.4	834.6	839.8
175°	838.7	843.9	838.7	833.3	828.2
177.5°	838.7	842.8	838.7	838.6	834.5
180°	838.7	838.7	838.7	838.7	838.7



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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	3.56	4.26	4.53	5.22	6.47	0.00	0.00	0.00	0.00	0.00
	3H	4.00	4.62	4.98	5.59	6.86	0.00	0.00	0.00	0.00	0.00
	4H	4.16	4.74	5.15	5.71	6.99	0.00	0.00	0.00	0.00	0.00
	6H	4.34	4.88	5.35	5.86	7.14	0.00	0.00	0.00	0.00	0.00
	8H	4.43	4.93	5.44	5.93	7.21	0.00	0.00	0.00	0.00	0.00
	12H	4.49	4.97	5.50	5.96	7.26	0.00	0.00	0.00	0.00	0.00
4H	2H	3.26	3.84	4.26	4.81	6.09	0.00	0.00	0.00	0.00	0.00
	3H	3.73	4.21	4.74	5.22	6.50	0.00	0.00	0.00	0.00	0.00
	4H	3.91	4.35	4.92	5.34	6.65	0.00	0.00	0.00	0.00	0.00
	6H	4.14	4.51	5.16	5.53	6.84	0.00	0.00	0.00	0.00	0.00
	8H	4.26	4.61	5.28	5.62	6.94	0.00	0.00	0.00	0.00	0.00
	12H	4.36	4.68	5.40	5.70	7.03	0.00	0.00	0.00	0.00	0.00
8H	4H	3.73	4.08	4.76	5.09	6.42	0.00	0.00	0.00	0.00	0.00
	6H	3.97	4.25	5.01	5.31	6.63	0.00	0.00	0.00	0.00	0.00
	8H	4.11	4.36	5.16	5.39	6.74	0.00	0.00	0.00	0.00	0.00
	12H	4.24	4.46	5.29	5.49	6.88	0.00	0.00	0.00	0.00	0.00
12H	4H	3.66	3.97	4.70	5.00	6.33	0.00	0.00	0.00	0.00	0.00
	6H	3.91	4.16	4.96	5.20	6.54	0.00	0.00	0.00	0.00	0.00
	8H	4.04	4.26	5.09	5.29	6.68	0.00	0.00	0.00	0.00	0.00