

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: P622070

Luminaire Tested: VLT-WB-M-150U-050D-935-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622070  
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-150U-050D-935-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

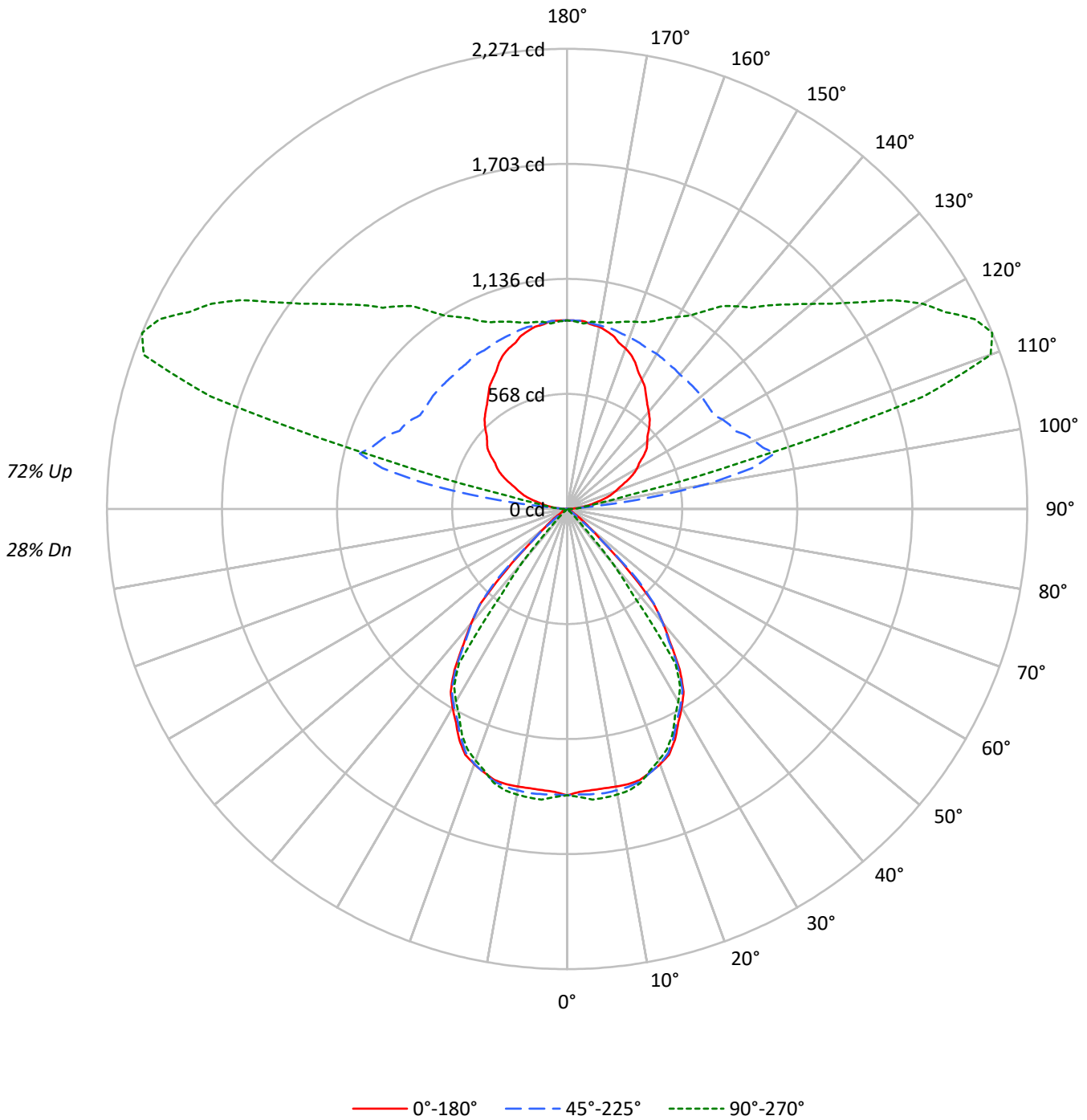
Lumens per Lamp: N/A  
Luminaire Lumens: 6961.2 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 74.6  
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	50	30	10	0	
RCR																						
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28				
1	94	90	87	84	84	81	78	76	64	62	61	48	47	46	34	33	33	26				
2	87	80	75	71	78	72	68	64	57	55	52	44	42	40	31	30	29	24				
3	80	72	65	60	72	65	59	55	52	48	45	40	38	36	29	28	27	22				
4	74	64	57	52	66	58	52	48	47	43	40	36	34	32	27	25	24	20				
5	68	58	51	45	61	53	46	42	43	38	35	33	31	28	25	23	22	18				
6	63	52	45	40	57	48	41	37	39	34	31	31	28	25	23	21	20	17				
7	58	47	40	35	53	43	37	33	35	31	28	28	25	23	21	19	18	15				
8	54	43	36	32	49	40	34	29	33	28	25	26	23	21	20	18	17	14				
9	51	40	33	28	46	36	31	26	30	26	23	24	21	19	18	17	15	13				
10	47	37	30	26	43	34	28	24	28	24	21	22	19	17	17	15	14	12				

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

	0°	45°	90°
0°	10140	10140	10140
5°	10034	10178	10373
10°	10136	10274	10427
15°	10289	10341	10393
20°	10241	10225	10088
25°	9961	9842	9723
30°	9372	9280	9082
35°	8489	8366	8165
40°	6904	6857	3241
45°	4272	4871	223
50°	1630	1306	134
55°	801	238	50
60°	388	115	14
65°	357	17	17
70°	336	21	21
75°	333	28	28
80°	331	41	0
85°	329	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 4871 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.9	1.9
10°-20°	391.5	5.6
20°-30°	569.2	8.2
30°-40°	566.4	8.1
40°-50°	249.1	3.6
50°-60°	36.8	0.5
60°-70°	8.4	0.1
70°-80°	3.1	0.0
80°-90°	2.8	0.0
90°-100°	114.4	1.6
100°-110°	815.3	11.7
110°-120°	1106.9	15.9
120°-130°	900.9	12.9
130°-140°	724.6	10.4
140°-150°	571.2	8.2
150°-160°	417.7	6.0
160°-170°	259.4	3.7
170°-180°	88.5	1.3
0°-30°	1095.6	15.7
0°-40°	1662.0	23.9
0°-60°	1947.8	28.0
0°-90°	1962.2	28.2
90°-120°	2036.7	29.3
90°-150°	4233.4	60.8
90°-180°	4999.0	71.8
0°-180°	6961.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1413	1413	1413	1413	1413	
5°	1393	1417	1413	1416	1440	133
15°	1385	1414	1392	1378	1399	389
25°	1258	1282	1243	1210	1228	575
35°	969	966	955	935	932	593
45°	421	479	480	32	22	326
55°	64	69	19	7	4	65
65°	21	18	1	1	1	21
75°	12	2	1	1	1	13
85°	4	0	0	0	0	4
90°	0	6	12	18	18	2
95°	47	87	47	53	64	52
105°	181	279	1059	1353	896	191
115°	322	391	913	1898	2218	320
125°	462	525	860	1505	1779	411
135°	574	636	866	1239	1422	441
145°	679	736	872	1080	1194	426
155°	796	825	890	978	1024	365
165°	884	895	913	937	954	248
175°	931	936	931	925	919	88
180°	931	931	931	931	931	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1413.0	1413.0	1413.0	1413.0	1413.0
2.5°	1397.0	1418.1	1410.6	1410.1	1422.6
5°	1393.0	1417.4	1413.0	1416.5	1440.0
7.5°	1390.2	1414.8	1414.8	1413.1	1436.6
10°	1391.0	1416.4	1410.0	1407.5	1431.0
12.5°	1391.0	1418.0	1404.4	1397.9	1422.2
15°	1385.0	1414.3	1392.0	1378.5	1399.0
17.5°	1363.4	1395.3	1364.6	1338.2	1355.4
20°	1341.0	1375.2	1339.0	1305.4	1321.0
22.5°	1313.0	1343.3	1303.8	1268.6	1285.0
25°	1258.0	1281.5	1243.0	1210.4	1228.0
27.5°	1188.6	1201.5	1172.8	1141.5	1152.8
30°	1131.0	1140.8	1120.0	1090.1	1096.0
32.5°	1069.4	1076.0	1059.2	1033.3	1038.4
35°	969.0	966.1	955.0	934.9	932.0
37.5°	837.8	832.7	825.6	748.0	536.4
40°	737.0	739.0	732.0	457.5	346.0
42.5°	630.6	642.7	632.8	311.5	113.2
45°	421.0	478.7	480.0	31.8	22.0
47.5°	227.6	290.4	236.2	19.7	16.0
50°	146.0	182.2	117.0	14.9	12.0
52.5°	104.4	121.8	45.8	11.7	8.8
55°	64.0	68.9	19.0	6.9	4.0
57.5°	38.2	45.4	12.0	2.6	1.0
60°	27.0	31.9	8.0	1.0	1.0
62.5°	23.8	24.0	5.6	1.0	1.0
65°	21.0	18.1	1.0	1.0	1.0
67.5°	18.4	13.1	1.0	1.0	1.0
70°	16.0	9.2	1.0	1.0	1.0
72.5°	14.4	6.0	1.0	1.0	1.0
75°	12.0	2.2	1.0	1.0	1.0
77.5°	9.6	1.2	1.0	0.8	0.8
80°	8.0	1.2	1.0	0.0	0.0
82.5°	6.4	1.1	0.2	0.0	0.0
85°	4.0	0.1	0.0	0.0	0.0
87.5°	1.6	1.2	2.3	3.5	3.5
90°	0.0	5.7	11.7	17.6	17.6
92.5°	14.0	19.8	25.8	36.4	41.0
95°	46.8	86.9	46.8	52.9	64.4
97.5°	83.1	166.7	344.2	101.5	87.8
100°	111.2	208.5	690.6	203.3	134.6
102.5°	139.3	241.2	934.1	536.5	293.8
105°	181.4	278.7	1059.4	1353.3	895.5
107.5°	223.6	296.8	1011.4	1969.6	1844.8
110°	251.7	320.4	983.3	2069.6	2224.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	279.8	348.4	955.2	2011.1	2270.9
115°	321.9	390.6	913.1	1897.8	2218.3
117.5°	365.2	432.8	902.5	1775.1	2104.7
120°	398.0	461.0	883.8	1681.7	2025.1
122.5°	421.4	488.9	860.4	1601.5	1917.4
125°	462.4	525.3	860.4	1504.6	1779.3
127.5°	496.3	560.4	861.6	1392.1	1663.4
130°	515.1	583.7	866.2	1316.9	1574.4
132.5°	538.5	607.1	866.2	1283.1	1494.8
135°	573.6	636.5	866.2	1239.1	1422.3
137.5°	602.9	670.4	866.2	1190.5	1347.3
140°	626.3	689.2	866.2	1162.1	1305.2
142.5°	649.7	708.0	870.9	1129.1	1263.1
145°	678.9	736.2	872.1	1079.5	1194.0
147.5°	714.1	764.4	879.1	1043.8	1132.0
150°	737.5	783.3	883.8	1020.1	1094.5
152.5°	760.9	802.1	883.8	1001.1	1061.7
155°	796.0	824.6	889.6	978.5	1024.3
157.5°	824.1	851.6	896.7	964.1	997.3
160°	842.8	865.7	901.4	954.7	983.3
162.5°	856.9	879.8	906.0	949.8	969.2
165°	883.8	895.2	913.1	936.9	954.0
167.5°	899.0	909.3	918.9	930.9	941.2
170°	913.1	918.8	918.9	930.7	936.5
172.5°	917.7	928.0	923.6	926.1	931.8
175°	930.6	936.3	930.6	924.6	918.9
177.5°	930.6	935.2	930.6	930.5	925.9
180°	930.6	930.6	930.6	930.6	930.6



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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	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.00