

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: P622022

Luminaire Tested: VLT-WB-M-075U-050D-935-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622022  
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-075U-050D-935-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

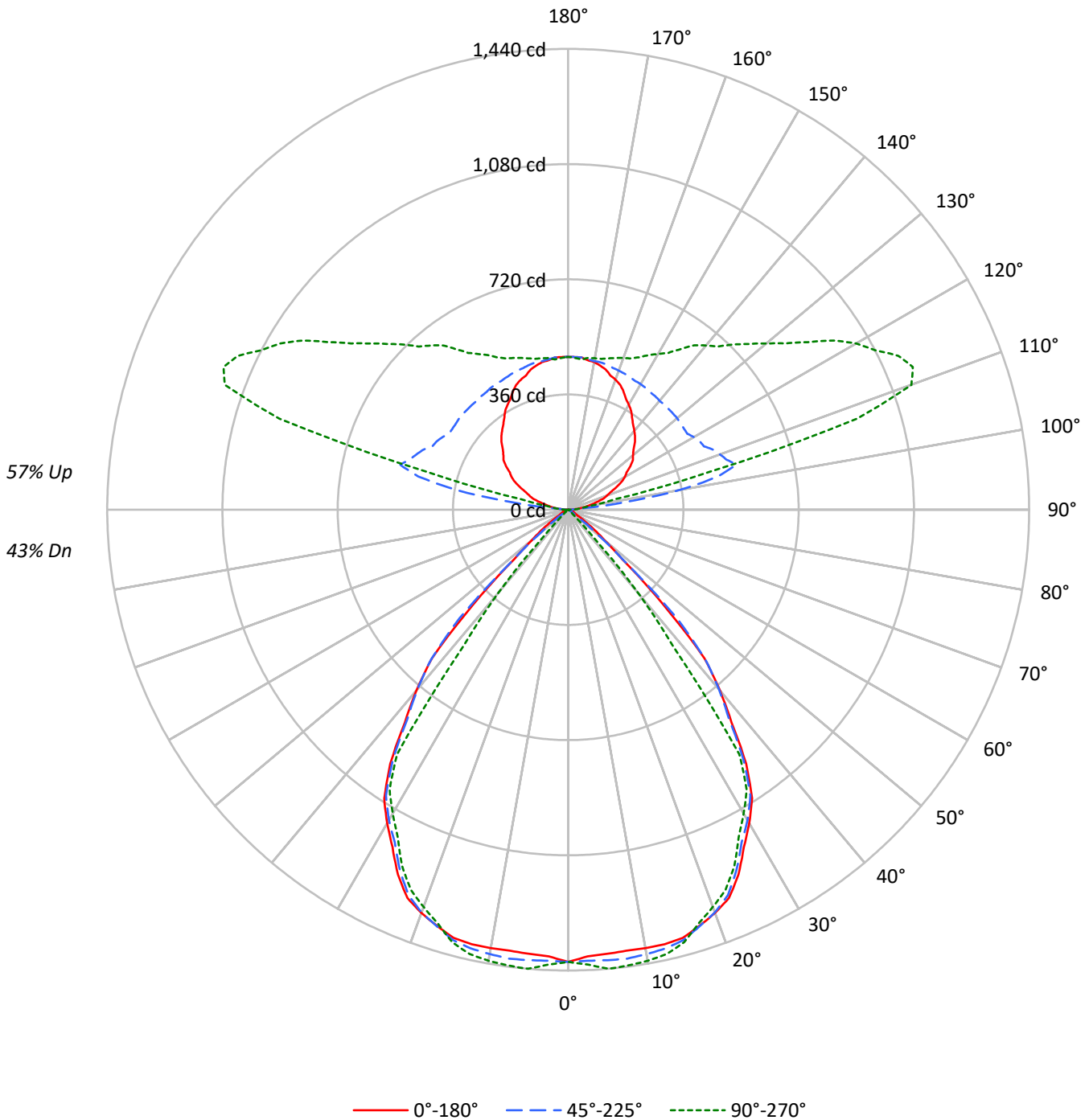
Lumens per Lamp: N/A  
Luminaire Lumens: 4525.9 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 42  
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43				
1	98	94	91	88	90	87	84	82	72	71	69	59	58	57	47	46	46	40				
2	91	85	80	75	83	78	74	70	66	63	60	54	52	51	44	42	41	37				
3	84	76	70	65	77	70	65	61	60	56	53	50	47	45	40	39	38	33				
4	78	69	62	57	72	64	58	54	54	50	47	46	43	40	38	36	34	31				
5	72	62	55	50	67	58	52	47	50	45	42	42	39	36	35	33	31	28				
6	67	57	50	45	62	53	47	42	46	41	38	39	36	33	32	30	29	26				
7	63	52	45	40	58	49	42	38	42	37	34	36	33	30	30	28	26	24				
8	59	48	41	36	54	45	39	34	39	34	31	33	30	27	28	26	24	22				
9	55	44	37	33	51	41	35	31	36	31	28	31	28	25	26	24	22	20				
10	51	41	34	30	48	38	32	28	33	29	26	29	26	23	25	22	21	19				

**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	3.0
10°-20°	391.5	8.6
20°-30°	569.2	12.6
30°-40°	566.4	12.5
40°-50°	249.1	5.5
50°-60°	36.8	0.8
60°-70°	8.4	0.2
70°-80°	3.1	0.1
80°-90°	1.8	0.0
90°-100°	58.7	1.3
100°-110°	418.3	9.2
110°-120°	567.9	12.5
120°-130°	462.2	10.2
130°-140°	371.7	8.2
140°-150°	293.1	6.5
150°-160°	214.3	4.7
160°-170°	133.1	2.9
170°-180°	45.4	1.0
0°-30°	1095.6	24.2
0°-40°	1662.0	36.7
0°-60°	1947.8	43.0
0°-90°	1961.1	43.3
90°-120°	1044.9	23.1
90°-150°	2171.9	48.0
90°-180°	2565.0	56.7
0°-180°	4525.9	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	3	6	9	9	1
95°	24	45	24	27	33	27
105°	93	143	544	694	459	98
115°	165	200	468	974	1138	164
125°	237	270	441	772	913	211
135°	294	327	444	636	730	226
145°	348	378	447	554	613	219
155°	408	423	456	502	526	187
165°	453	459	468	481	490	127
175°	478	480	478	474	471	45
180°	478	478	478	478	478	



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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	0.6	1.2	1.8	1.8
90°	0.0	2.9	6.0	9.0	9.0
92.5°	7.2	10.1	13.2	18.7	21.0
95°	24.0	44.6	24.0	27.2	33.0
97.5°	42.6	85.5	176.6	52.1	45.0
100°	57.1	107.0	354.3	104.3	69.1
102.5°	71.5	123.7	479.3	275.2	150.7
105°	93.1	143.0	543.5	694.3	459.4
107.5°	114.7	152.3	518.9	1010.5	946.5
110°	129.1	164.4	504.5	1061.8	1141.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	143.5	178.8	490.1	1031.8	1165.1
115°	165.2	200.4	468.4	973.7	1138.1
117.5°	187.4	222.0	463.0	910.7	1079.8
120°	204.2	236.5	453.4	862.8	1039.0
122.5°	216.2	250.9	441.4	821.7	983.7
125°	237.2	269.5	441.4	771.9	912.9
127.5°	254.6	287.5	442.0	714.2	853.4
130°	264.3	299.5	444.4	675.6	807.8
132.5°	276.3	311.5	444.4	658.3	766.9
135°	294.3	326.6	444.4	635.7	729.7
137.5°	309.3	343.9	444.4	610.8	691.3
140°	321.3	353.6	444.4	596.2	669.6
142.5°	333.3	363.3	446.8	579.3	648.0
145°	348.3	377.7	447.4	553.9	612.6
147.5°	366.3	392.2	451.0	535.5	580.8
150°	378.4	401.8	453.4	523.4	561.5
152.5°	390.4	411.5	453.4	513.6	544.7
155°	408.4	423.1	456.4	502.0	525.5
157.5°	422.8	436.9	460.0	494.7	511.7
160°	432.4	444.2	462.4	489.8	504.5
162.5°	439.6	451.4	464.8	487.3	497.3
165°	453.4	459.3	468.4	480.7	489.5
167.5°	461.2	466.5	471.4	477.6	482.9
170°	468.4	471.4	471.4	477.5	480.5
172.5°	470.8	476.1	473.8	475.1	478.1
175°	477.5	480.4	477.5	474.4	471.4
177.5°	477.5	479.8	477.5	477.4	475.1
180°	477.5	477.5	477.5	477.5	477.5



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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	0.37	1.01	2.39	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.35	0.82	1.39	2.78	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.47	0.99	1.51	2.92	0.00	0.00	0.00	0.00	0.00
	6H	0.10	0.61	1.18	1.65	3.07	0.00	0.00	0.00	0.00	0.00
	8H	0.18	0.67	1.26	1.72	3.13	0.00	0.00	0.00	0.00	0.00
	12H	0.25	0.71	1.33	1.76	3.19	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.09	0.61	2.02	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.57	1.02	2.43	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.08	0.75	1.14	2.58	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.25	0.99	1.33	2.77	0.00	0.00	0.00	0.00	0.00
	8H	0.02	0.35	1.10	1.42	2.87	0.00	0.00	0.00	0.00	0.00
	12H	0.12	0.42	1.23	1.51	2.96	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.58	0.90	2.34	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.84	1.11	2.56	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.10	0.98	1.20	2.67	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.21	1.12	1.30	2.80	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.52	0.81	2.25	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.79	1.01	2.47	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.01	0.92	1.10	2.60	0.00	0.00	0.00	0.00	0.00