

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: P622045

Luminaire Tested: VLT-WB-M-100U-050D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622045  
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-050D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

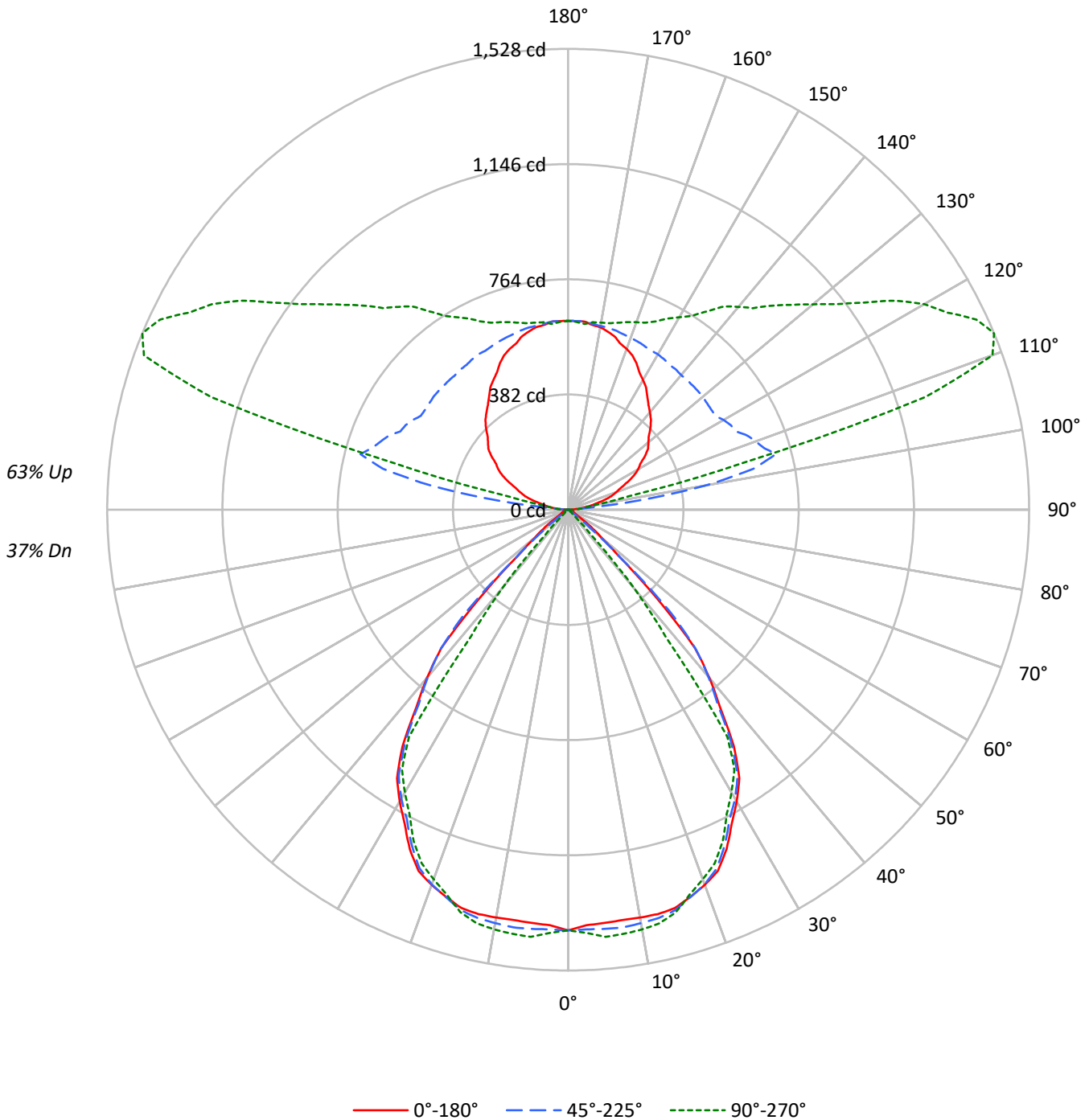
Lumens per Lamp: N/A  
Luminaire Lumens: 5299.9 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 51.6  
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																		
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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37																												
1	96	93	89	86	87	84	82	79	69	67	65	54	53	52	41	40	40	34																												
2	89	83	78	73	81	75	71	67	62	59	56	50	48	46	38	37	36	31																												
3	82	74	68	63	75	68	63	58	56	53	49	45	43	41	35	34	33	28																												
4	76	67	60	55	69	61	56	51	51	47	44	42	39	37	33	31	30	26																												
5	70	60	53	48	64	56	49	45	47	42	39	38	35	33	30	28	27	24																												
6	65	55	48	43	60	51	44	40	43	38	35	35	32	30	28	26	25	22																												
7	61	50	43	38	56	46	40	36	39	35	31	32	29	27	26	24	23	20																												
8	57	46	39	34	52	42	36	32	36	32	28	30	27	24	24	22	21	18																												
9	53	42	35	31	49	39	33	29	33	29	26	28	25	22	23	21	19	17																												
10	50	39	32	28	46	36	30	26	31	26	23	26	23	21	21	19	18	16																												

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

	0°	45°	90°
0°	10010	10010	10010
5°	9907	10049	10241
10°	10007	10144	10295
15°	10159	10210	10261
20°	10110	10095	9959
25°	9834	9717	9600
30°	9252	9162	8966
35°	8381	8259	8060
40°	6816	6770	3200
45°	4218	4809	220
50°	1609	1289	132
55°	791	235	49
60°	383	113	14
65°	351	17	17
70°	332	21	21
75°	327	28	28
80°	326	41	0
85°	321	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 4809 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.2	2.5
10°-20°	386.5	7.3
20°-30°	561.9	10.6
30°-40°	559.2	10.6
40°-50°	245.9	4.6
50°-60°	36.3	0.7
60°-70°	8.3	0.2
70°-80°	3.1	0.1
80°-90°	2.1	0.0
90°-100°	77.0	1.5
100°-110°	548.6	10.4
110°-120°	744.7	14.1
120°-130°	606.1	11.4
130°-140°	487.5	9.2
140°-150°	384.3	7.3
150°-160°	281.0	5.3
160°-170°	174.6	3.3
170°-180°	59.5	1.1
0°-30°	1081.6	20.4
0°-40°	1640.8	31.0
0°-60°	1923.0	36.3
0°-90°	1936.5	36.5
90°-120°	1370.3	25.9
90°-150°	2848.3	53.7
90°-180°	3363.0	63.5
0°-180°	5299.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1375	1399	1395	1398	1422	131
15°	1367	1396	1374	1361	1381	384
25°	1242	1265	1227	1195	1212	568
35°	957	954	943	923	920	586
45°	416	473	474	31	22	322
55°	63	68	19	7	4	64
65°	21	18	1	1	1	21
75°	12	2	1	1	1	12
85°	4	0	0	0	0	4
90°	0	4	8	12	12	2
95°	32	58	32	36	43	35
105°	122	188	713	910	602	129
115°	217	263	614	1277	1492	215
125°	311	353	579	1012	1197	276
135°	386	428	583	834	957	297
145°	457	495	587	726	803	287
155°	536	555	599	658	689	246
165°	595	602	614	630	642	167
175°	626	630	626	622	618	59
180°	626	626	626	626	626	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1379.2	1400.1	1392.6	1392.1	1404.5
5°	1375.3	1399.4	1395.0	1398.5	1421.7
7.5°	1372.5	1396.8	1396.8	1395.2	1418.3
10°	1373.3	1398.4	1392.1	1389.6	1412.8
12.5°	1373.3	1399.9	1386.5	1380.2	1404.1
15°	1367.4	1396.3	1374.3	1360.9	1381.2
17.5°	1346.0	1377.5	1347.2	1321.2	1338.2
20°	1323.9	1357.7	1322.0	1288.7	1304.2
22.5°	1296.3	1326.2	1287.2	1252.4	1268.6
25°	1242.0	1265.2	1227.2	1195.0	1212.4
27.5°	1173.5	1186.2	1157.9	1126.9	1138.1
30°	1116.6	1126.3	1105.7	1076.3	1082.1
32.5°	1055.8	1062.4	1045.7	1020.2	1025.2
35°	956.7	953.8	942.8	923.0	920.1
37.5°	827.1	822.1	815.1	738.5	529.6
40°	727.6	729.6	722.7	451.6	341.6
42.5°	622.6	634.5	624.7	307.5	111.8
45°	415.6	472.6	473.9	31.4	21.7
47.5°	224.7	286.7	233.2	19.5	15.8
50°	144.1	179.9	115.5	14.7	11.8
52.5°	103.1	120.3	45.2	11.6	8.7
55°	63.2	68.0	18.8	6.8	3.9
57.5°	37.7	44.9	11.8	2.5	1.0
60°	26.7	31.5	7.9	1.0	1.0
62.5°	23.5	23.7	5.5	1.0	1.0
65°	20.7	17.8	1.0	1.0	1.0
67.5°	18.2	13.0	1.0	1.0	1.0
70°	15.8	9.0	1.0	1.0	1.0
72.5°	14.2	5.9	1.0	1.0	1.0
75°	11.8	2.2	1.0	1.0	1.0
77.5°	9.5	1.2	1.0	0.8	0.8
80°	7.9	1.1	1.0	0.0	0.0
82.5°	6.3	1.1	0.2	0.0	0.0
85°	3.9	0.1	0.0	0.0	0.0
87.5°	1.6	0.8	1.6	2.4	2.4
90°	0.0	3.9	7.9	11.8	11.8
92.5°	9.5	13.3	17.3	24.5	27.6
95°	31.5	58.5	31.5	35.6	43.3
97.5°	55.9	112.1	231.5	68.3	59.1
100°	74.8	140.3	464.7	136.8	90.6
102.5°	93.7	162.3	628.5	360.9	197.7
105°	122.1	187.5	712.8	910.5	602.5
107.5°	150.4	199.7	680.5	1325.2	1241.2
110°	169.3	215.5	661.6	1392.4	1496.4



TEST NUMBER: P622045

CATALOG NUMBER: VLT-WB-M-100U-050D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	188.2	234.4	642.7	1353.1	1527.9
115°	216.6	262.8	614.3	1276.8	1492.5
117.5°	245.7	291.2	607.2	1194.3	1416.1
120°	267.8	310.1	594.6	1131.5	1362.5
122.5°	283.5	329.0	578.9	1077.5	1290.0
125°	311.1	353.4	578.9	1012.3	1197.1
127.5°	333.9	377.1	579.7	936.6	1119.1
130°	346.5	392.7	582.8	886.0	1059.3
132.5°	362.3	408.5	582.8	863.3	1005.7
135°	385.9	428.3	582.8	833.7	956.9
137.5°	405.6	451.0	582.8	801.0	906.5
140°	421.4	463.7	582.8	781.9	878.1
142.5°	437.1	476.4	586.0	759.7	849.8
145°	456.8	495.3	586.7	726.3	803.3
147.5°	480.4	514.3	591.5	702.3	761.6
150°	496.2	527.0	594.6	686.3	736.4
152.5°	511.9	539.6	594.6	673.5	714.3
155°	535.6	554.8	598.6	658.3	689.1
157.5°	554.5	572.9	603.3	648.7	671.0
160°	567.1	582.5	606.4	642.3	661.6
162.5°	576.5	591.9	609.6	639.0	652.1
165°	594.6	602.3	614.3	630.3	641.9
167.5°	604.9	611.8	618.2	626.3	633.2
170°	614.3	618.2	618.2	626.2	630.1
172.5°	617.5	624.4	621.4	623.1	626.9
175°	626.1	630.0	626.1	622.1	618.2
177.5°	626.1	629.2	626.1	626.1	623.0
180°	626.1	626.1	626.1	626.1	626.1



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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	0.21	1.68	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.04	0.59	2.07	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.21	0.71	2.20	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.39	0.85	2.35	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.48	0.92	2.41	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.54	0.95	2.46	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.22	1.72	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.34	1.86	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.20	0.53	2.05	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.32	0.62	2.15	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.43	0.70	2.23	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.10	1.63	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.05	0.32	1.84	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.19	0.40	1.94	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.32	0.50	2.08	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.01	1.54	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.21	1.75	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.12	0.30	1.88	0.00	0.00	0.00	0.00	0.00