

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: P622050

Luminaire Tested: VLT-WB-M-100U-075D-940-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622050  
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-075D-940-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

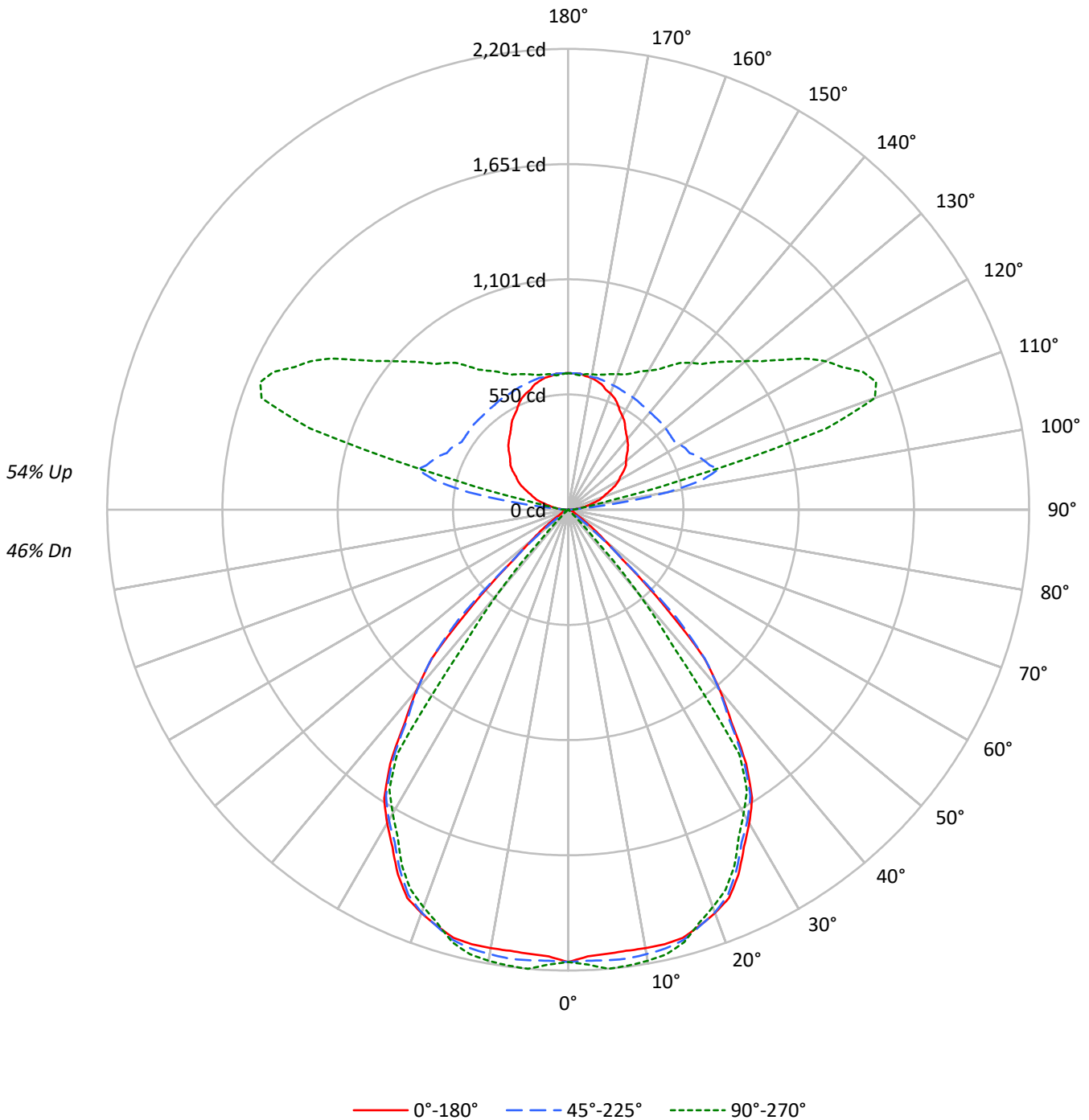
Lumens per Lamp: N/A  
Luminaire Lumens: 6500.4 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 61.3  
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	81	81	81	66	66	66	53	53	53	46				
1	99	95	92	89	91	88	85	83	74	72	70	61	60	59	49	49	48	43				
2	92	85	80	76	84	79	75	71	67	64	62	56	54	52	46	45	44	39				
3	85	77	71	66	78	72	66	62	61	57	54	52	49	47	43	41	40	36				
4	79	70	63	58	73	65	59	55	56	52	48	47	44	42	40	38	36	33				
5	73	63	56	51	68	59	53	48	51	47	43	44	40	38	37	35	33	30				
6	68	58	51	46	63	54	48	43	47	42	39	40	37	34	34	32	30	27				
7	64	53	46	41	59	49	43	39	43	39	35	37	34	31	32	29	28	25				
8	59	48	42	37	55	46	39	35	40	35	32	35	31	29	30	27	25	23				
9	56	45	38	33	52	42	36	32	37	32	29	32	29	26	28	25	23	21				
10	52	41	35	30	49	39	33	29	34	30	27	30	27	24	26	24	22	20				

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

	0°	45°	90°
0°	15499	15499	15499
5°	15338	15559	15856
10°	15494	15705	15939
15°	15728	15808	15887
20°	15653	15630	15420
25°	15226	15044	14862
30°	14325	14186	13882
35°	12976	12788	12480
40°	10553	10481	4954
45°	6530	7446	341
50°	2492	1996	204
55°	1224	363	76
60°	593	175	22
65°	545	25	25
70°	514	31	31
75°	507	42	42
80°	504	62	0
85°	502	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 7446 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.3	3.2
10°-20°	598.4	9.2
20°-30°	870.0	13.4
30°-40°	865.8	13.3
40°-50°	380.7	5.9
50°-60°	56.2	0.9
60°-70°	12.8	0.2
70°-80°	4.8	0.1
80°-90°	2.6	0.0
90°-100°	80.2	1.2
100°-110°	571.3	8.8
110°-120°	775.6	11.9
120°-130°	631.3	9.7
130°-140°	507.7	7.8
140°-150°	400.3	6.2
150°-160°	292.7	4.5
160°-170°	181.8	2.8
170°-180°	62.0	1.0
0°-30°	1674.7	25.8
0°-40°	2540.5	39.1
0°-60°	2977.4	45.8
0°-90°	2997.6	46.1
90°-120°	1427.1	22.0
90°-150°	2966.4	45.6
90°-180°	3503.0	53.9
0°-180°	6500.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2160	2160	2160	2160	2160	
5°	2129	2167	2160	2165	2201	203
15°	2117	2162	2128	2107	2138	595
25°	1923	1959	1900	1850	1877	879
35°	1481	1477	1460	1429	1425	907
45°	644	732	734	49	34	498
55°	98	105	29	11	6	99
65°	32	28	2	2	2	32
75°	18	3	2	2	2	19
85°	6	0	0	0	0	6
90°	0	4	8	12	12	2
95°	33	61	33	37	45	37
105°	127	195	742	948	628	134
115°	226	274	640	1330	1554	224
125°	324	368	603	1054	1247	288
135°	402	446	607	868	997	309
145°	476	516	611	756	837	299
155°	558	578	623	686	718	256
165°	619	627	640	656	668	174
175°	652	656	652	648	644	62
180°	652	652	652	652	652	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2159.9	2159.9	2159.9	2159.9	2159.9
2.5°	2135.4	2167.7	2156.2	2155.4	2174.6
5°	2129.3	2166.7	2159.9	2165.3	2201.2
7.5°	2125.0	2162.7	2162.6	2160.1	2196.0
10°	2126.3	2165.1	2155.3	2151.5	2187.4
12.5°	2126.3	2167.5	2146.8	2136.9	2174.0
15°	2117.1	2161.9	2127.8	2107.1	2138.5
17.5°	2084.1	2132.8	2085.9	2045.5	2071.9
20°	2049.8	2102.2	2046.8	1995.4	2019.3
22.5°	2007.0	2053.4	1993.0	1939.1	1964.2
25°	1923.0	1958.8	1900.0	1850.2	1877.1
27.5°	1816.9	1836.6	1792.7	1744.8	1762.2
30°	1728.8	1743.8	1712.0	1666.4	1675.3
32.5°	1634.7	1644.8	1619.1	1579.5	1587.3
35°	1481.2	1476.7	1459.8	1429.1	1424.6
37.5°	1280.7	1272.9	1262.0	1143.4	819.9
40°	1126.6	1129.6	1118.9	699.3	528.9
42.5°	963.9	982.5	967.3	476.1	173.0
45°	643.5	731.7	733.7	48.6	33.6
47.5°	347.9	443.9	361.1	30.1	24.5
50°	223.2	278.5	178.8	22.8	18.3
52.5°	159.6	186.2	70.0	17.9	13.5
55°	97.8	105.3	29.0	10.6	6.1
57.5°	58.4	69.5	18.3	3.9	1.5
60°	41.3	48.7	12.2	1.5	1.5
62.5°	36.4	36.7	8.6	1.5	1.5
65°	32.1	27.6	1.5	1.5	1.5
67.5°	28.1	20.1	1.5	1.5	1.5
70°	24.5	14.0	1.5	1.5	1.5
72.5°	22.0	9.2	1.5	1.5	1.5
75°	18.3	3.4	1.5	1.5	1.5
77.5°	14.7	1.8	1.5	1.2	1.2
80°	12.2	1.8	1.5	0.0	0.0
82.5°	9.8	1.7	0.3	0.0	0.0
85°	6.1	0.1	0.0	0.0	0.0
87.5°	2.4	0.9	1.6	2.5	2.5
90°	0.0	4.0	8.2	12.3	12.3
92.5°	9.8	13.9	18.0	25.5	28.7
95°	32.8	60.9	32.8	37.1	45.1
97.5°	58.2	116.8	241.2	71.1	61.5
100°	77.9	146.1	483.9	142.5	94.3
102.5°	97.6	169.0	654.6	375.9	205.9
105°	127.1	195.3	742.3	948.3	627.5
107.5°	156.7	208.0	708.7	1380.1	1292.7
110°	176.4	224.5	689.0	1450.2	1558.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	196.0	244.2	669.3	1409.2	1591.3
115°	225.6	273.7	639.8	1329.8	1554.4
117.5°	255.9	303.2	632.4	1243.8	1474.8
120°	278.9	323.0	619.3	1178.4	1419.0
122.5°	295.3	342.6	602.9	1122.2	1343.6
125°	324.0	368.1	602.9	1054.3	1246.8
127.5°	347.8	392.7	603.7	975.5	1165.6
130°	360.9	409.0	607.0	922.8	1103.2
132.5°	377.3	425.4	607.0	899.1	1047.5
135°	401.9	446.0	607.0	868.3	996.6
137.5°	422.4	469.7	607.0	834.2	944.1
140°	438.8	482.9	607.0	814.3	914.6
142.5°	455.2	496.1	610.3	791.2	885.1
145°	475.7	515.8	611.1	756.5	836.7
147.5°	500.4	535.6	616.0	731.4	793.2
150°	516.8	548.8	619.3	714.8	766.9
152.5°	533.2	562.0	619.3	701.5	744.0
155°	557.8	577.8	623.4	685.6	717.7
157.5°	577.5	596.7	628.3	675.6	698.9
160°	590.6	606.6	631.6	669.0	689.0
162.5°	600.4	616.5	634.9	665.5	679.2
165°	619.3	627.3	639.8	656.5	668.5
167.5°	630.0	637.2	643.9	652.3	659.5
170°	639.8	643.8	643.9	652.2	656.2
172.5°	643.1	650.3	647.2	648.9	652.9
175°	652.1	656.1	652.1	647.9	643.9
177.5°	652.1	655.3	652.1	652.0	648.8
180°	652.1	652.1	652.1	652.1	652.1



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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	1.09	1.76	2.11	2.77	4.11	0.00	0.00	0.00	0.00	0.00
	3H	1.53	2.12	2.56	3.14	4.50	0.00	0.00	0.00	0.00	0.00
	4H	1.68	2.25	2.73	3.27	4.64	0.00	0.00	0.00	0.00	0.00
	6H	1.86	2.38	2.92	3.41	4.79	0.00	0.00	0.00	0.00	0.00
	8H	1.95	2.44	3.01	3.48	4.85	0.00	0.00	0.00	0.00	0.00
	12H	2.01	2.48	3.07	3.51	4.90	0.00	0.00	0.00	0.00	0.00
4H	2H	0.78	1.35	1.84	2.37	3.74	0.00	0.00	0.00	0.00	0.00
	3H	1.26	1.72	2.31	2.77	4.15	0.00	0.00	0.00	0.00	0.00
	4H	1.43	1.85	2.49	2.89	4.30	0.00	0.00	0.00	0.00	0.00
	6H	1.66	2.02	2.73	3.08	4.48	0.00	0.00	0.00	0.00	0.00
	8H	1.78	2.12	2.85	3.17	4.58	0.00	0.00	0.00	0.00	0.00
	12H	1.88	2.19	2.97	3.26	4.67	0.00	0.00	0.00	0.00	0.00
8H	4H	1.26	1.59	2.33	2.65	4.06	0.00	0.00	0.00	0.00	0.00
	6H	1.49	1.77	2.58	2.86	4.27	0.00	0.00	0.00	0.00	0.00
	8H	1.63	1.87	2.73	2.95	4.38	0.00	0.00	0.00	0.00	0.00
	12H	1.76	1.97	2.86	3.05	4.52	0.00	0.00	0.00	0.00	0.00
12H	4H	1.18	1.49	2.27	2.56	3.97	0.00	0.00	0.00	0.00	0.00
	6H	1.43	1.67	2.53	2.76	4.18	0.00	0.00	0.00	0.00	0.00
	8H	1.56	1.77	2.66	2.85	4.32	0.00	0.00	0.00	0.00	0.00