

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: P622074

Luminaire Tested: VLT-WB-M-150U-075D-940-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622074  
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-075D-940-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

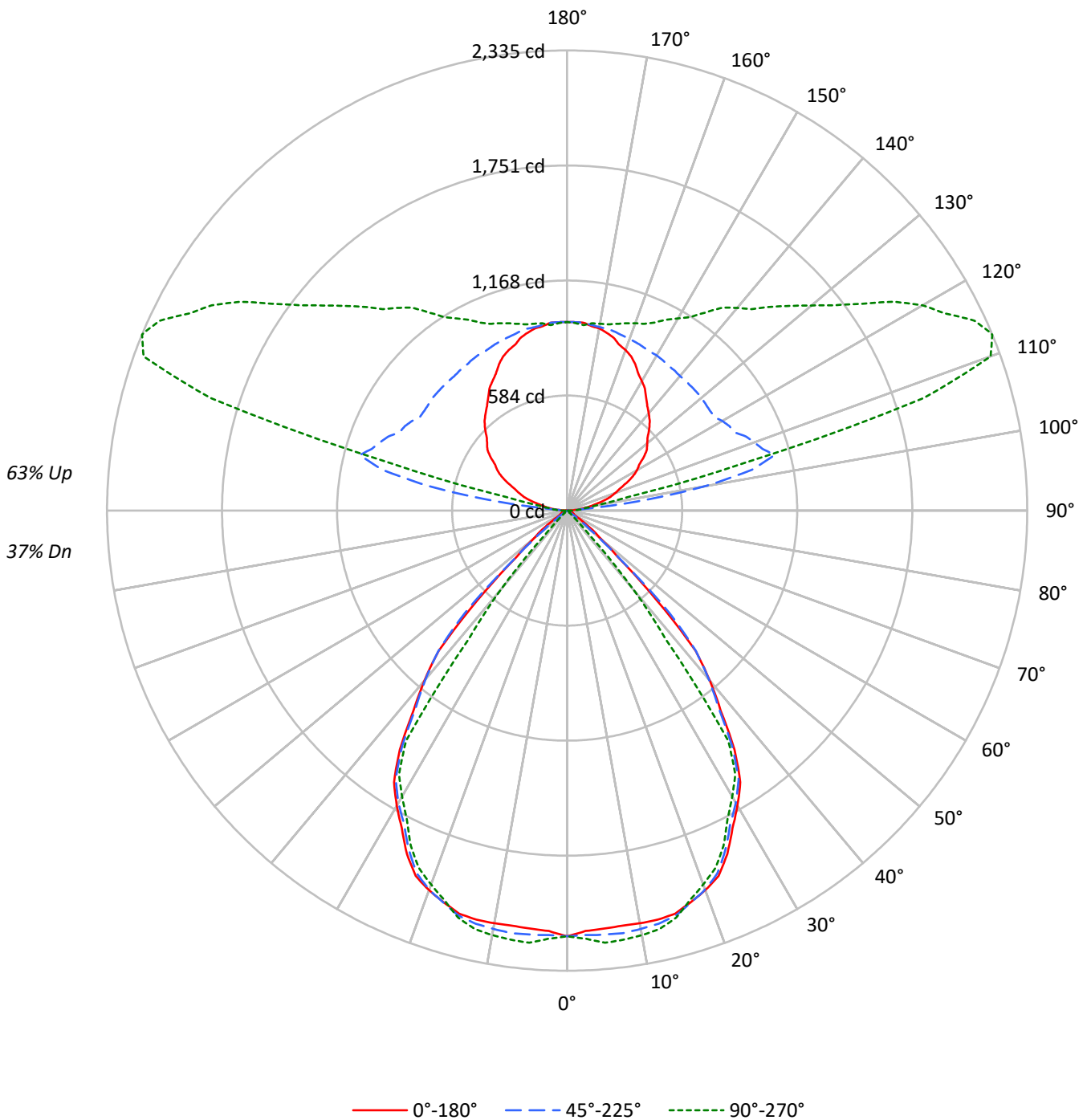
Lumens per Lamp: N/A  
Luminaire Lumens: 8138.4 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 84.3  
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	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	41	40	34
2	89	83	78	73	81	76	71	68	62	59	57	50	48	46	38	37	36	31
3	82	74	68	63	75	68	63	59	56	53	50	46	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	71	60	53	48	64	56	50	45	47	42	39	38	35	33	31	29	27	24
6	65	55	48	43	60	51	45	40	43	38	35	35	32	30	28	26	25	22
7	61	50	43	38	56	46	40	36	39	35	31	33	29	27	26	24	23	20
8	57	46	39	34	52	42	36	32	36	32	28	30	27	25	25	22	21	19
9	53	42	35	31	49	39	33	29	33	29	26	28	25	23	23	21	19	17
10	50	39	32	28	46	36	30	26	31	27	24	26	23	21	22	19	18	16

**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	2.5
10°-20°	598.4	7.4
20°-30°	870.0	10.7
30°-40°	865.8	10.6
40°-50°	380.7	4.7
50°-60°	56.2	0.7
60°-70°	12.8	0.2
70°-80°	4.8	0.1
80°-90°	3.2	0.0
90°-100°	117.7	1.4
100°-110°	838.3	10.3
110°-120°	1138.2	14.0
120°-130°	926.4	11.4
130°-140°	745.1	9.2
140°-150°	587.4	7.2
150°-160°	429.5	5.3
160°-170°	266.8	3.3
170°-180°	91.0	1.1
0°-30°	1674.7	20.6
0°-40°	2540.5	31.2
0°-60°	2977.4	36.6
0°-90°	2998.2	36.8
90°-120°	2094.2	25.7
90°-150°	4353.0	53.5
90°-180°	5140.0	63.2
0°-180°	8138.4	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	6	12	18	18	2
95°	48	89	48	54	66	54
105°	187	287	1089	1392	921	197
115°	331	402	939	1951	2281	329
125°	475	540	885	1547	1830	422
135°	590	654	891	1274	1462	454
145°	698	757	897	1110	1228	438
155°	818	848	915	1006	1053	376
165°	909	920	939	963	981	255
175°	957	963	957	951	945	90
180°	957	957	957	957	957	



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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	1.2	2.4	3.6	3.6
90°	0.0	5.9	12.0	18.1	18.1
92.5°	14.4	20.3	26.5	37.4	42.1
95°	48.1	89.3	48.1	54.4	66.2
97.5°	85.5	171.4	353.9	104.4	90.3
100°	114.3	214.4	710.2	209.0	138.4
102.5°	143.2	248.0	960.5	551.6	302.1
105°	186.6	286.6	1089.3	1391.5	920.8
107.5°	229.9	305.2	1039.9	2025.2	1896.9
110°	258.8	329.4	1011.1	2128.0	2286.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	287.7	358.3	982.2	2067.9	2335.1
115°	331.0	401.6	938.8	1951.4	2280.9
117.5°	375.5	445.0	928.0	1825.2	2164.2
120°	409.2	474.0	908.8	1729.2	2082.3
122.5°	433.3	502.7	884.7	1646.7	1971.6
125°	475.4	540.2	884.7	1547.1	1829.5
127.5°	510.3	576.3	885.9	1431.5	1710.4
130°	529.6	600.2	890.7	1354.1	1618.9
132.5°	553.7	624.3	890.7	1319.3	1537.1
135°	589.8	654.5	890.7	1274.1	1462.4
137.5°	619.9	689.3	890.7	1224.2	1385.4
140°	643.9	708.7	890.7	1195.0	1342.1
142.5°	668.0	728.0	895.5	1161.0	1298.7
145°	698.1	757.0	896.7	1110.0	1227.7
147.5°	734.2	786.0	903.9	1073.3	1163.9
150°	758.3	805.4	908.8	1048.9	1125.4
152.5°	782.4	824.7	908.8	1029.3	1091.7
155°	818.5	847.9	914.8	1006.1	1053.2
157.5°	847.4	875.6	922.0	991.4	1025.5
160°	866.6	890.2	926.8	981.6	1011.1
162.5°	881.1	904.6	931.6	976.6	996.6
165°	908.8	920.5	938.8	963.3	981.0
167.5°	924.4	935.0	944.9	957.1	967.7
170°	938.8	944.7	944.9	957.0	962.9
172.5°	943.7	954.2	949.7	952.2	958.1
175°	956.9	962.8	956.9	950.7	944.9
177.5°	956.9	961.6	956.9	956.8	952.1
180°	956.9	956.9	956.9	956.9	956.9



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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	0.05	0.69	1.15	1.76	3.22	0.00	0.00	0.00	0.00	0.00
	3H	0.49	1.06	1.59	2.14	3.62	0.00	0.00	0.00	0.00	0.00
	4H	0.65	1.18	1.76	2.27	3.75	0.00	0.00	0.00	0.00	0.00
	6H	0.83	1.32	1.95	2.41	3.90	0.00	0.00	0.00	0.00	0.00
	8H	0.91	1.38	2.03	2.48	3.96	0.00	0.00	0.00	0.00	0.00
	12H	0.97	1.42	2.10	2.51	4.02	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.28	0.87	1.36	2.85	0.00	0.00	0.00	0.00	0.00
	3H	0.22	0.66	1.34	1.77	3.27	0.00	0.00	0.00	0.00	0.00
	4H	0.39	0.80	1.52	1.90	3.41	0.00	0.00	0.00	0.00	0.00
	6H	0.62	0.97	1.75	2.09	3.60	0.00	0.00	0.00	0.00	0.00
	8H	0.74	1.07	1.87	2.18	3.70	0.00	0.00	0.00	0.00	0.00
	12H	0.85	1.14	1.99	2.26	3.79	0.00	0.00	0.00	0.00	0.00
8H	4H	0.22	0.54	1.35	1.66	3.18	0.00	0.00	0.00	0.00	0.00
	6H	0.45	0.72	1.60	1.87	3.39	0.00	0.00	0.00	0.00	0.00
	8H	0.59	0.82	1.75	1.96	3.50	0.00	0.00	0.00	0.00	0.00
	12H	0.72	0.93	1.88	2.06	3.63	0.00	0.00	0.00	0.00	0.00
12H	4H	0.15	0.44	1.29	1.56	3.09	0.00	0.00	0.00	0.00	0.00
	6H	0.40	0.63	1.55	1.76	3.30	0.00	0.00	0.00	0.00	0.00
	8H	0.52	0.73	1.68	1.86	3.43	0.00	0.00	0.00	0.00	0.00