

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: P621883

Luminaire Tested: VLT-FB-125U-125D-830-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621883  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: VLT-FB-125U-125D-830-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

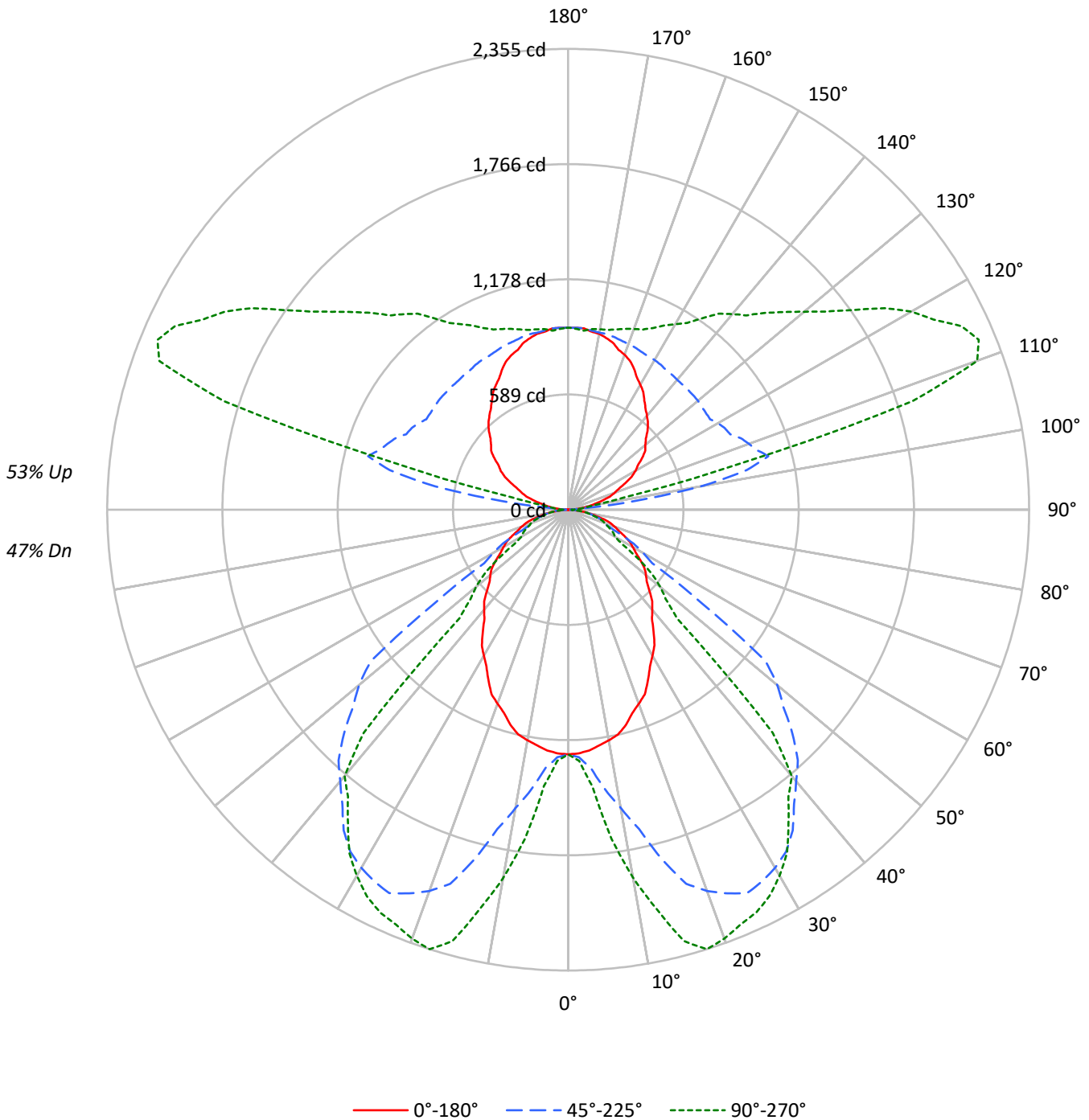
Lumens per Lamp: N/A  
Luminaire Lumens: 9479.0 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 76.9  
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	98	98	98	98	82	82	82	67	67	67	54	54	54	47				47
1	98	94	90	87	90	86	83	80	73	70	68	60	58	57	48	47	46				41	
2	89	82	77	72	82	76	71	67	64	61	57	53	51	49	43	41	40				35	
3	82	73	66	60	75	67	61	57	57	53	49	48	44	42	39	37	35				31	
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30				27	
5	69	58	50	44	63	54	47	42	46	41	37	39	35	32	32	29	27				23	
6	64	52	44	39	59	48	41	36	41	36	32	35	31	28	29	26	24				21	
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21				18	
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19				16	
9	51	39	32	27	47	36	30	25	31	26	22	27	23	20	22	19	17				15	
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	15				13	

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

	0°	45°	90°
0°	8971	8971	8971
5°	8895	9536	10214
10°	8721	11275	13923
15°	8457	13742	16952
20°	8053	15833	17813
25°	7625	17121	17986
30°	7138	17518	17896
35°	6655	17518	17184
40°	6260	16971	16638
45°	5957	16451	7968
50°	5787	15573	6865
55°	5626	10427	5436
60°	5470	6345	3938
65°	5350	4832	4099
70°	5279	4211	4211
75°	5143	4367	4228
80°	4517	4409	4199
85°	3351	4603	3977

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 16451 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.8	1.4
10°-20°	497.1	5.2
20°-30°	841.9	8.9
30°-40°	1021.3	10.8
40°-50°	899.0	9.5
50°-60°	556.3	5.9
60°-70°	301.6	3.2
70°-80°	171.8	1.8
80°-90°	58.3	0.6
90°-100°	114.4	1.2
100°-110°	815.0	8.6
110°-120°	1106.4	11.7
120°-130°	900.5	9.5
130°-140°	724.3	7.6
140°-150°	571.0	6.0
150°-160°	417.5	4.4
160°-170°	259.3	2.7
170°-180°	88.4	0.9
0°-30°	1473.8	15.5
0°-40°	2495.2	26.3
0°-60°	3950.4	41.7
0°-90°	4482.1	47.3
90°-120°	2035.8	21.5
90°-150°	4231.6	44.6
90°-180°	4997.0	52.7
0°-180°	9479.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1235	1275	1324	1381	1418	117
15°	1138	1312	1850	2187	2282	319
25°	963	1318	2162	2227	2272	442
35°	760	1222	2000	1972	1962	476
45°	587	1004	1621	1374	785	455
55°	450	701	833	482	434	403
65°	315	395	285	244	241	313
75°	186	163	158	155	152	194
85°	41	56	56	51	48	50
90°	0	6	12	18	18	4
95°	47	87	47	53	64	52
105°	181	279	1059	1353	895	191
115°	322	390	913	1897	2217	319
125°	462	525	860	1504	1778	411
135°	573	636	866	1239	1422	441
145°	679	736	872	1079	1194	426
155°	796	824	889	978	1024	365
165°	883	895	913	936	954	248
175°	930	936	930	924	918	88
180°	930	930	930	930	930	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1250.2	1250.2	1250.2	1250.2	1250.2
2.5°	1246.1	1260.0	1266.4	1278.7	1284.7
5°	1234.9	1274.7	1323.8	1380.6	1417.9
7.5°	1215.1	1286.1	1441.7	1620.8	1697.4
10°	1196.8	1293.7	1547.4	1806.5	1910.8
12.5°	1176.5	1301.2	1671.4	1985.4	2091.7
15°	1138.3	1312.3	1849.8	2187.4	2281.8
17.5°	1089.1	1319.1	2004.3	2294.3	2355.0
20°	1054.5	1320.3	2073.4	2307.8	2332.6
22.5°	1022.0	1321.6	2122.2	2275.1	2296.0
25°	963.0	1318.3	2162.4	2226.9	2271.6
27.5°	904.1	1303.6	2142.5	2194.6	2226.9
30°	861.4	1288.7	2114.1	2157.3	2159.8
32.5°	820.7	1264.0	2071.4	2084.0	2080.5
35°	759.7	1221.9	1999.7	1971.6	1961.6
37.5°	702.8	1165.9	1895.0	1849.8	1847.3
40°	668.3	1125.4	1811.7	1768.7	1776.1
42.5°	635.7	1079.0	1736.5	1686.1	1546.4
45°	587.0	1004.4	1621.1	1374.0	785.2
47.5°	544.8	919.4	1490.5	736.0	675.9
50°	518.4	861.2	1395.0	647.2	614.9
52.5°	491.9	807.0	1271.0	581.9	539.7
55°	449.7	700.7	833.4	481.7	434.5
57.5°	409.6	589.0	509.2	374.4	323.2
60°	381.1	522.8	442.1	301.8	274.4
62.5°	354.7	468.5	377.1	267.7	262.2
65°	315.1	394.6	284.6	243.9	241.4
67.5°	278.0	324.2	217.0	219.5	217.0
70°	251.6	273.9	200.7	203.2	200.7
72.5°	227.2	225.7	184.5	182.9	180.4
75°	185.5	163.1	157.5	154.9	152.5
77.5°	141.8	120.4	127.0	124.5	122.0
80°	109.3	101.8	106.7	104.1	101.6
82.5°	80.8	83.3	86.4	81.8	79.3
85°	40.7	55.6	55.9	50.8	48.3
87.5°	12.2	25.3	24.7	21.8	19.8
90°	0.0	5.7	11.7	17.6	17.6
92.5°	14.0	19.8	25.7	36.4	41.0
95°	46.8	86.8	46.8	52.9	64.4
97.5°	83.1	166.6	344.0	101.5	87.8
100°	111.2	208.4	690.3	203.2	134.6
102.5°	139.2	241.1	933.7	536.2	293.7
105°	181.4	278.6	1058.9	1352.7	895.1
107.5°	223.5	296.7	1011.0	1968.8	1844.0
110°	251.6	320.2	982.9	2068.7	2223.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	279.6	348.3	954.8	2010.3	2270.0
115°	321.8	390.4	912.7	1897.0	2217.3
117.5°	365.1	432.6	902.1	1774.3	2103.8
120°	397.8	460.8	883.4	1681.0	2024.2
122.5°	421.2	488.7	860.0	1600.8	1916.6
125°	462.2	525.1	860.0	1503.9	1778.5
127.5°	496.1	560.2	861.2	1391.5	1662.7
130°	514.8	583.5	865.9	1316.3	1573.8
132.5°	538.2	606.9	865.9	1282.5	1494.2
135°	573.3	636.3	865.9	1238.6	1421.7
137.5°	602.6	670.1	865.9	1190.0	1346.8
140°	626.0	688.9	865.9	1161.6	1304.6
142.5°	649.4	707.7	870.5	1128.7	1262.5
145°	678.6	735.9	871.7	1079.1	1193.5
147.5°	713.8	764.1	878.7	1043.4	1131.5
150°	737.2	782.9	883.4	1019.7	1094.0
152.5°	760.6	801.7	883.4	1000.6	1061.3
155°	795.7	824.3	889.3	978.1	1023.8
157.5°	823.7	851.2	896.3	963.7	996.9
160°	842.5	865.3	901.0	954.3	982.9
162.5°	856.5	879.4	905.6	949.4	968.8
165°	883.4	894.9	912.7	936.5	953.6
167.5°	898.6	908.9	918.5	930.4	940.7
170°	912.7	918.4	918.5	930.3	936.1
172.5°	917.3	927.6	923.2	925.7	931.4
175°	930.2	935.9	930.2	924.2	918.5
177.5°	930.2	934.8	930.2	930.1	925.5
180°	930.2	930.2	930.2	930.2	930.2

(END OF REPORT)