

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: P621812

Luminaire Tested: VLT-FB-075U-125D-835-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621812  
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-075U-125D-835-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

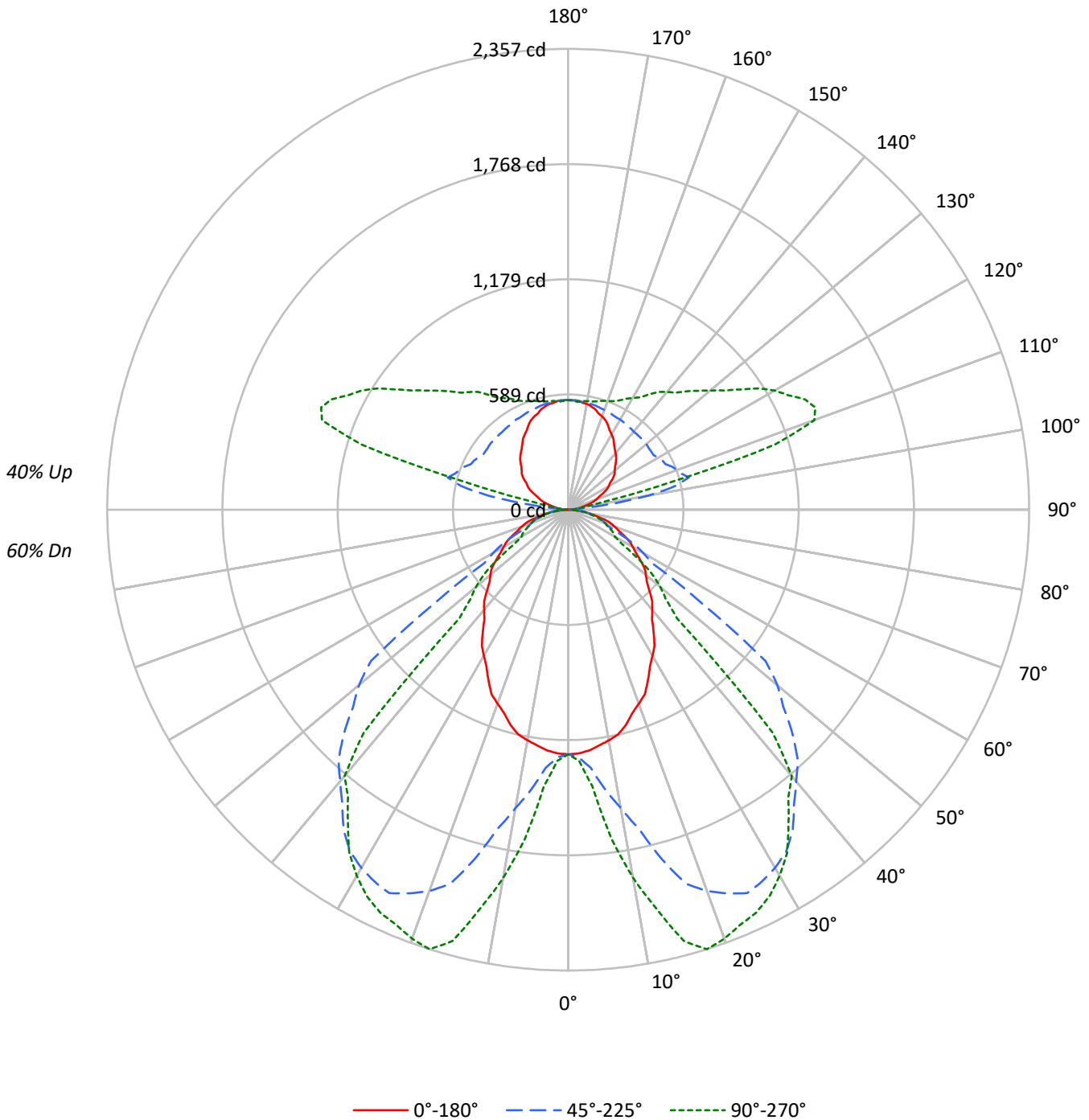
Lumens per Lamp: N/A  
Luminaire Lumens: 7495.0 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 59.5  
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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	101	97	93	90	94	90	87	84	79	77	75	68	67	65	59	58	56	52
2	92	85	79	74	86	80	75	70	70	66	63	61	58	56	53	51	49	45
3	85	76	68	63	79	71	65	60	62	58	54	55	51	48	47	45	42	39
4	78	67	60	54	73	63	57	51	56	51	46	49	45	42	43	39	37	34
5	72	60	52	46	67	57	50	44	50	45	40	44	40	36	39	35	32	30
6	66	54	46	41	62	51	44	39	46	40	35	40	36	32	35	32	29	26
7	61	49	41	36	57	46	39	34	41	36	31	37	32	29	32	28	26	23
8	57	45	37	32	53	42	35	30	38	32	28	34	29	26	30	26	23	21
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	27	24	21	19
10	50	37	30	25	46	36	29	25	32	26	23	28	24	21	25	22	19	17

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

	0°	45°	90°
0°	8979	8979	8979
5°	8903	9544	10222
10°	8729	11286	13936
15°	8465	13755	16967
20°	8060	15848	17829
25°	7632	17136	18003
30°	7144	17533	17913
35°	6661	17534	17200
40°	6266	16986	16653
45°	5962	16467	7976
50°	5792	15587	6871
55°	5632	10437	5441
60°	5475	6351	3942
65°	5355	4836	4102
70°	5283	4215	4215
75°	5149	4372	4231
80°	4521	4413	4203
85°	3351	4611	3977

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 16467 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.9	1.8
10°-20°	497.5	6.6
20°-30°	842.7	11.2
30°-40°	1022.3	13.6
40°-50°	899.8	12.0
50°-60°	556.8	7.4
60°-70°	301.9	4.0
70°-80°	172.0	2.3
80°-90°	57.5	0.8
90°-100°	68.9	0.9
100°-110°	490.9	6.5
110°-120°	666.4	8.9
120°-130°	542.4	7.2
130°-140°	436.2	5.8
140°-150°	343.9	4.6
150°-160°	251.5	3.4
160°-170°	156.2	2.1
170°-180°	53.3	0.7
0°-30°	1475.2	19.7
0°-40°	2497.4	33.3
0°-60°	3954.0	52.8
0°-90°	4485.4	59.8
90°-120°	1226.2	16.4
90°-150°	2548.7	34.0
90°-180°	3010.0	40.2
0°-180°	7495.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1236	1276	1325	1382	1419	117
15°	1139	1313	1852	2189	2284	319
25°	964	1320	2164	2229	2274	443
35°	760	1223	2002	1973	1963	477
45°	588	1005	1623	1375	786	456
55°	450	701	834	482	435	403
65°	315	395	285	244	242	313
75°	186	163	158	155	153	194
85°	41	56	56	51	48	50
90°	0	3	7	11	11	3
95°	28	52	28	32	39	32
105°	109	168	638	815	539	115
115°	194	235	550	1143	1336	192
125°	278	316	518	906	1071	247
135°	345	383	522	746	856	266
145°	409	443	525	650	719	257
155°	479	496	536	589	617	220
165°	532	539	550	564	574	149
175°	560	564	560	557	553	53
180°	560	560	560	560	560	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1251.3	1251.3	1251.3	1251.3	1251.3
2.5°	1247.2	1261.1	1267.6	1279.9	1285.9
5°	1236.0	1275.8	1325.0	1381.8	1419.1
7.5°	1216.2	1287.3	1443.0	1622.3	1698.9
10°	1197.9	1294.9	1548.8	1808.1	1912.5
12.5°	1177.5	1302.4	1673.0	1987.2	2093.6
15°	1139.4	1313.4	1851.5	2189.3	2283.8
17.5°	1090.0	1320.3	2006.1	2296.4	2357.1
20°	1055.4	1321.5	2075.3	2309.8	2334.7
22.5°	1022.9	1322.8	2124.1	2277.2	2298.1
25°	963.9	1319.5	2164.3	2228.9	2273.7
27.5°	904.9	1304.8	2144.5	2196.6	2228.9
30°	862.2	1289.9	2116.0	2159.3	2161.8
32.5°	821.5	1265.1	2073.3	2085.9	2082.4
35°	760.4	1223.0	2001.5	1973.3	1963.4
37.5°	703.5	1167.0	1896.8	1851.4	1848.9
40°	668.9	1126.4	1813.3	1770.3	1777.7
42.5°	636.3	1080.0	1738.1	1687.6	1547.8
45°	587.5	1005.3	1622.6	1375.2	785.9
47.5°	545.3	920.3	1491.9	736.7	676.5
50°	518.8	862.0	1396.2	647.8	615.5
52.5°	492.4	807.7	1272.1	582.5	540.2
55°	450.2	701.3	834.2	482.1	434.9
57.5°	410.0	589.5	509.7	374.7	323.5
60°	381.5	523.2	442.5	302.0	274.7
62.5°	355.0	468.9	377.4	267.9	262.5
65°	315.4	394.9	284.8	244.1	241.6
67.5°	278.2	324.5	217.2	219.7	217.2
70°	251.8	274.2	200.9	203.4	200.9
72.5°	227.4	225.9	184.6	183.1	180.6
75°	185.7	163.3	157.7	155.1	152.6
77.5°	141.9	120.5	127.2	124.6	122.1
80°	109.4	101.9	106.8	104.2	101.7
82.5°	80.9	83.4	86.5	81.8	79.3
85°	40.7	55.6	56.0	50.8	48.3
87.5°	12.2	24.8	23.8	20.4	18.4
90°	0.0	3.4	7.0	10.6	10.6
92.5°	8.5	11.9	15.5	21.9	24.7
95°	28.2	52.3	28.2	31.9	38.8
97.5°	50.0	100.3	207.2	61.1	52.9
100°	67.0	125.5	415.8	122.4	81.0
102.5°	83.9	145.2	562.4	323.0	176.9
105°	109.2	167.8	637.8	814.8	539.1
107.5°	134.6	178.7	608.9	1185.8	1110.7
110°	151.5	192.9	592.0	1246.0	1339.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	168.4	209.8	575.1	1210.8	1367.2
115°	193.8	235.2	549.7	1142.6	1335.5
117.5°	219.9	260.5	543.4	1068.7	1267.1
120°	239.6	277.5	532.1	1012.5	1219.2
122.5°	253.7	294.4	518.0	964.2	1154.4
125°	278.4	316.3	518.0	905.8	1071.2
127.5°	298.8	337.4	518.7	838.1	1001.5
130°	310.1	351.4	521.5	792.8	947.9
132.5°	324.2	365.5	521.5	772.5	900.0
135°	345.3	383.2	521.5	746.0	856.3
137.5°	362.9	403.6	521.5	716.8	811.2
140°	377.0	414.9	521.5	699.7	785.8
142.5°	391.1	426.3	524.3	679.8	760.4
145°	408.8	443.2	525.0	649.9	718.8
147.5°	429.9	460.2	529.3	628.4	681.5
150°	444.0	471.6	532.1	614.2	658.9
152.5°	458.1	482.9	532.1	602.7	639.2
155°	479.2	496.5	535.6	589.1	616.7
157.5°	496.1	512.7	539.8	580.5	600.4
160°	507.4	521.2	542.7	574.8	592.0
162.5°	515.9	529.7	545.5	571.8	583.5
165°	532.1	539.0	549.7	564.0	574.4
167.5°	541.2	547.5	553.2	560.4	566.6
170°	549.7	553.2	553.2	560.4	563.8
172.5°	552.5	558.7	556.0	557.5	561.0
175°	560.3	563.7	560.3	556.7	553.2
177.5°	560.3	563.0	560.3	560.2	557.5
180°	560.3	560.3	560.3	560.3	560.3

(END OF REPORT)