

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: P621813

Luminaire Tested: VLT-FB-075U-125D-840-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621813  
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-840-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

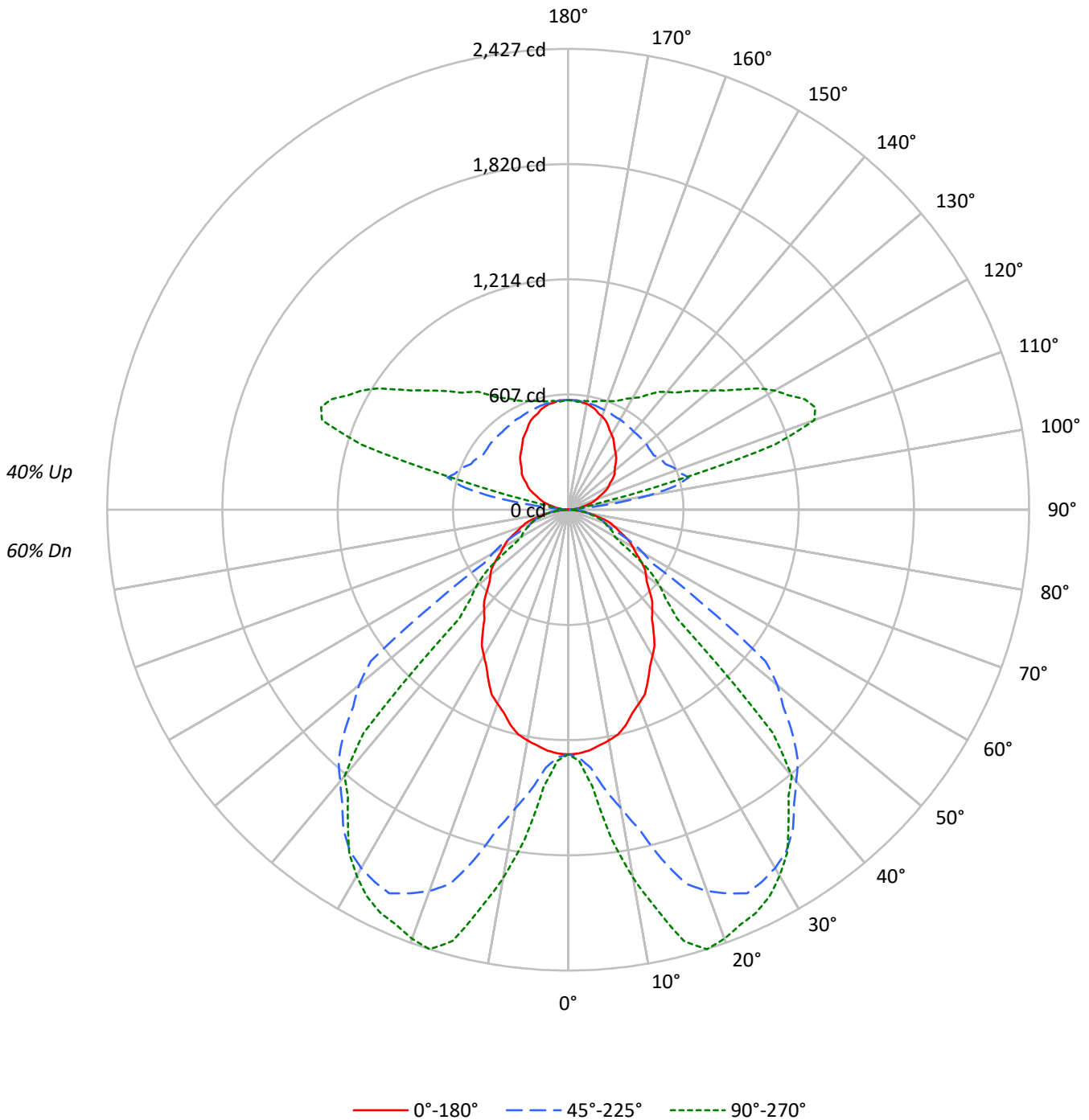
Lumens per Lamp: N/A  
Luminaire Lumens: 7718.4 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

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°	9247	9247	9247
5°	9169	9829	10527
10°	8989	11622	14351
15°	8717	14165	17472
20°	8300	16321	18360
25°	7859	17647	18539
30°	7357	18056	18446
35°	6860	18057	17712
40°	6452	17493	17149
45°	6140	16958	8213
50°	5965	16052	7076
55°	5800	10748	5604
60°	5639	6540	4060
65°	5515	4980	4225
70°	5440	4341	4341
75°	5301	4503	4356
80°	4653	4546	4331
85°	3450	4742	4100

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 16958 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.0	1.8
10°-20°	512.4	6.6
20°-30°	867.8	11.2
30°-40°	1052.7	13.6
40°-50°	926.6	12.0
50°-60°	573.4	7.4
60°-70°	310.9	4.0
70°-80°	177.1	2.3
80°-90°	59.2	0.8
90°-100°	70.9	0.9
100°-110°	505.5	6.5
110°-120°	686.3	8.9
120°-130°	558.6	7.2
130°-140°	449.3	5.8
140°-150°	354.2	4.6
150°-160°	259.0	3.4
160°-170°	160.9	2.1
170°-180°	54.9	0.7
0°-30°	1519.1	19.7
0°-40°	2571.9	33.3
0°-60°	4071.9	52.8
0°-90°	4619.1	59.8
90°-120°	1262.7	16.4
90°-150°	2624.7	34.0
90°-180°	3099.0	40.2
0°-180°	7718.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1273	1314	1364	1423	1461	120
15°	1173	1353	1907	2255	2352	329
25°	993	1359	2229	2295	2342	456
35°	783	1259	2061	2032	2022	491
45°	605	1035	1671	1416	809	469
55°	464	722	859	496	448	415
65°	325	407	293	251	249	322
75°	191	168	162	160	157	200
85°	42	57	58	52	50	51
90°	0	4	7	11	11	3
95°	29	54	29	33	40	32
105°	112	173	657	839	555	119
115°	200	242	566	1177	1375	198
125°	287	326	533	933	1103	255
135°	356	395	537	768	882	274
145°	421	456	541	669	740	264
155°	494	511	552	607	635	227
165°	548	555	566	581	592	154
175°	577	580	577	573	570	55
180°	577	577	577	577	577	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1288.6	1288.6	1288.6	1288.6	1288.6
2.5°	1284.4	1298.7	1305.3	1318.1	1324.2
5°	1272.9	1313.8	1364.5	1423.0	1461.4
7.5°	1252.4	1325.7	1486.1	1670.7	1749.5
10°	1233.6	1333.5	1595.0	1862.0	1969.5
12.5°	1212.6	1341.2	1722.8	2046.4	2156.0
15°	1173.3	1352.6	1906.7	2254.6	2351.9
17.5°	1122.5	1359.7	2065.9	2364.9	2427.4
20°	1086.9	1360.9	2137.2	2378.7	2404.3
22.5°	1053.4	1362.2	2187.4	2345.1	2366.6
25°	992.6	1358.8	2228.8	2295.4	2341.5
27.5°	931.9	1343.7	2208.4	2262.1	2295.4
30°	887.9	1328.3	2179.1	2223.7	2226.2
32.5°	846.0	1302.8	2135.1	2148.1	2144.5
35°	783.1	1259.4	2061.2	2032.2	2021.9
37.5°	724.4	1201.8	1953.3	1906.6	1904.1
40°	688.8	1160.0	1867.4	1823.0	1830.7
42.5°	655.3	1112.2	1789.9	1737.9	1594.0
45°	605.0	1035.2	1671.0	1416.2	809.3
47.5°	561.5	947.7	1536.3	758.6	696.7
50°	534.3	887.7	1437.9	667.1	633.8
52.5°	507.1	831.8	1310.1	599.8	556.3
55°	463.6	722.2	859.1	496.5	447.9
57.5°	422.2	607.1	524.9	385.9	333.1
60°	392.9	538.8	455.7	311.0	282.9
62.5°	365.6	482.9	388.7	275.9	270.3
65°	324.8	406.7	293.3	251.4	248.8
67.5°	286.5	334.2	223.7	226.2	223.7
70°	259.3	282.3	206.9	209.5	206.9
72.5°	234.1	232.6	190.1	188.5	186.0
75°	191.2	168.1	162.4	159.7	157.1
77.5°	146.1	124.1	131.0	128.3	125.7
80°	112.6	104.9	110.0	107.3	104.8
82.5°	83.3	85.8	89.0	84.3	81.7
85°	41.9	57.3	57.6	52.3	49.8
87.5°	12.6	25.6	24.5	21.0	18.9
90°	0.0	3.5	7.3	10.9	10.9
92.5°	8.7	12.3	16.0	22.6	25.4
95°	29.0	53.9	29.0	32.8	39.9
97.5°	51.5	103.3	213.4	62.9	54.4
100°	68.9	129.3	428.2	126.0	83.5
102.5°	86.4	149.5	579.2	332.6	182.2
105°	112.5	172.8	656.8	839.1	555.2
107.5°	138.6	184.0	627.1	1221.2	1143.8
110°	156.0	198.6	609.6	1283.1	1378.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	173.5	216.0	592.2	1246.9	1408.0
115°	199.6	242.2	566.1	1176.6	1375.3
117.5°	226.4	268.3	559.6	1100.5	1304.9
120°	246.8	285.8	548.0	1042.7	1255.6
122.5°	261.3	303.1	533.4	992.9	1188.8
125°	286.7	325.7	533.4	932.8	1103.2
127.5°	307.7	347.5	534.2	863.1	1031.3
130°	319.3	361.9	537.1	816.5	976.2
132.5°	333.9	376.4	537.1	795.5	926.8
135°	355.6	394.7	537.1	768.3	881.8
137.5°	373.8	415.6	537.1	738.1	835.4
140°	388.3	427.3	537.1	720.5	809.2
142.5°	402.8	439.0	540.0	700.1	783.1
145°	420.9	456.4	540.7	669.3	740.3
147.5°	442.7	473.9	545.0	647.2	701.8
150°	457.2	485.6	548.0	632.5	678.6
152.5°	471.7	497.3	548.0	620.7	658.3
155°	493.5	511.3	551.6	606.7	635.0
157.5°	510.9	528.0	555.9	597.8	618.3
160°	522.5	536.7	558.8	591.9	609.6
162.5°	531.3	545.5	561.7	588.9	600.9
165°	548.0	555.0	566.1	580.9	591.5
167.5°	557.4	563.8	569.7	577.1	583.5
170°	566.1	569.6	569.7	577.1	580.6
172.5°	569.0	575.4	572.6	574.2	577.7
175°	577.0	580.5	577.0	573.3	569.7
177.5°	577.0	579.8	577.0	576.9	574.1
180°	577.0	577.0	577.0	577.0	577.0

(END OF REPORT)