

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: P621796

Luminaire Tested: VLT-FB-075U-050D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621796  
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-050D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

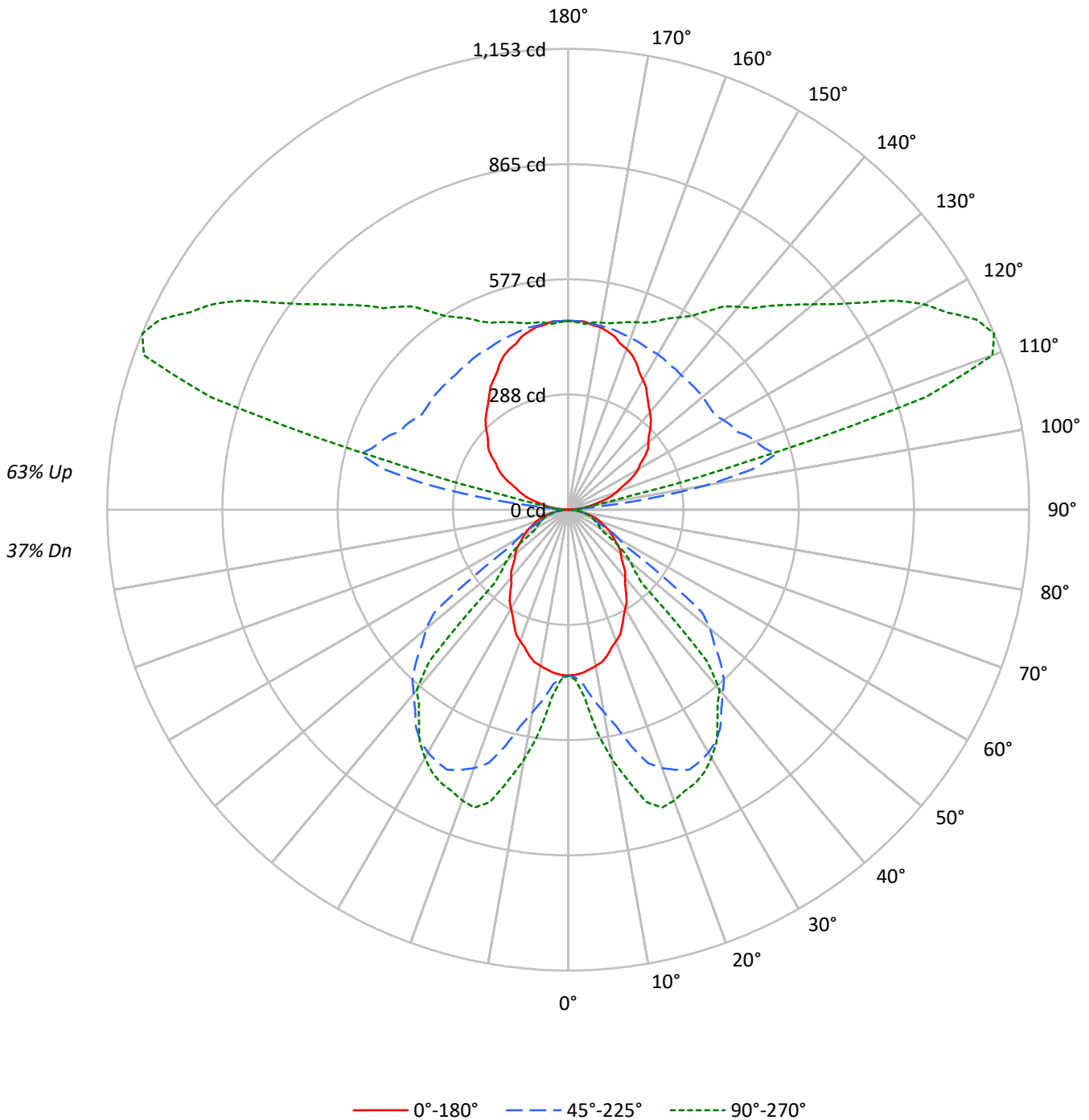
Lumens per Lamp: N/A  
Luminaire Lumens: 4025.4 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 35.2  
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									
RC	80									70									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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	95	91	88	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32																			
2	87	80	74	70	79	73	68	64	59	56	53	47	45	43	35	34	33	28																			
3	80	71	64	58	72	65	59	54	53	49	45	42	39	37	32	30	28	24																			
4	73	63	55	50	66	57	51	46	47	42	39	38	34	32	29	27	25	21																			
5	67	56	48	43	61	51	45	40	42	37	33	34	30	28	26	24	22	18																			
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	24	21	19	16																			
7	57	45	38	32	52	42	35	30	34	29	26	28	24	21	22	19	17	14																			
8	53	41	34	29	48	38	31	27	31	26	23	25	22	19	20	17	15	13																			
9	49	37	30	25	45	34	28	24	29	24	20	23	20	17	18	16	14	12																			
10	46	34	27	23	42	32	25	21	26	22	18	21	18	15	17	14	13	11																			

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

	0°	45°	90°
0°	2977	2977	2977
5°	2952	3164	3389
10°	2894	3742	4620
15°	2806	4560	5625
20°	2672	5254	5911
25°	2531	5682	5968
30°	2368	5813	5939
35°	2208	5813	5702
40°	2078	5632	5521
45°	1977	5460	2644
50°	1920	5168	2279
55°	1867	3461	1804
60°	1816	2105	1307
65°	1776	1603	1360
70°	1752	1397	1397
75°	1708	1450	1403
80°	1500	1463	1393
85°	1112	1531	1317

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 5460 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.7	1.1
10°-20°	165.0	4.1
20°-30°	279.4	6.9
30°-40°	338.9	8.4
40°-50°	298.3	7.4
50°-60°	184.6	4.6
60°-70°	100.1	2.5
70°-80°	57.0	1.4
80°-90°	19.7	0.5
90°-100°	58.1	1.4
100°-110°	413.9	10.3
110°-120°	561.9	14.0
120°-130°	457.3	11.4
130°-140°	367.8	9.1
140°-150°	290.0	7.2
150°-160°	212.0	5.3
160°-170°	131.7	3.3
170°-180°	44.9	1.1
0°-30°	489.1	12.1
0°-40°	828.0	20.6
0°-60°	1310.9	32.6
0°-90°	1487.7	37.0
90°-120°	1033.9	25.7
90°-150°	2149.1	53.4
90°-180°	2538.0	63.0
0°-180°	4025.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	410	423	439	458	470	39
15°	378	436	614	726	757	106
25°	320	438	718	739	754	147
35°	252	406	664	654	651	158
45°	195	333	538	456	260	151
55°	149	232	277	160	144	134
65°	105	131	94	81	80	104
75°	62	54	52	51	51	64
85°	14	18	19	17	16	16
90°	0	3	6	9	9	2
95°	24	44	24	27	33	27
105°	92	142	538	687	455	97
115°	163	198	464	963	1126	162
125°	235	267	437	764	903	209
135°	291	323	440	629	722	224
145°	345	374	443	548	606	216
155°	404	419	452	497	520	186
165°	449	454	464	476	484	126
175°	472	475	472	469	466	45
180°	472	472	472	472	472	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	414.8	414.8	414.8	414.8	414.8
2.5°	413.5	418.1	420.2	424.3	426.3
5°	409.8	423.0	439.3	458.1	470.5
7.5°	403.2	426.8	478.4	537.9	563.3
10°	397.1	429.3	513.5	599.5	634.1
12.5°	390.4	431.8	554.7	658.8	694.1
15°	377.7	435.5	613.8	725.9	757.2
17.5°	361.4	437.7	665.1	761.4	781.5
20°	349.9	438.1	688.0	765.8	774.0
22.5°	339.1	438.6	704.2	755.0	761.9
25°	319.6	437.5	717.6	739.0	753.8
27.5°	300.0	432.6	711.0	728.3	739.0
30°	285.8	427.6	701.5	715.9	716.7
32.5°	272.4	419.4	687.4	691.6	690.4
35°	252.1	405.5	663.6	654.2	650.9
37.5°	233.2	386.9	628.9	613.8	613.0
40°	221.8	373.5	601.2	586.9	589.4
42.5°	211.0	358.0	576.2	559.5	513.2
45°	194.8	333.3	538.0	455.9	260.5
47.5°	180.8	305.1	494.6	244.2	224.3
50°	172.0	285.8	462.9	214.8	204.1
52.5°	163.2	267.8	421.8	193.1	179.1
55°	149.2	232.5	276.6	159.9	144.2
57.5°	135.9	195.4	169.0	124.2	107.3
60°	126.5	173.5	146.7	100.1	91.1
62.5°	117.7	155.5	125.1	88.8	87.0
65°	104.6	130.9	94.4	80.9	80.1
67.5°	92.2	107.6	72.0	72.8	72.0
70°	83.5	90.9	66.6	67.4	66.6
72.5°	75.4	74.9	61.2	60.7	59.9
75°	61.6	54.1	52.3	51.4	50.6
77.5°	47.0	40.0	42.2	41.3	40.5
80°	36.3	33.8	35.4	34.6	33.7
82.5°	26.8	27.6	28.7	27.1	26.3
85°	13.5	18.4	18.6	16.8	16.0
87.5°	4.0	8.6	8.6	7.8	7.2
90°	0.0	2.9	5.9	8.9	8.9
92.5°	7.1	10.0	13.1	18.5	20.8
95°	23.8	44.1	23.8	26.9	32.7
97.5°	42.2	84.6	174.7	51.5	44.6
100°	56.5	105.8	350.6	103.2	68.3
102.5°	70.7	122.4	474.2	272.3	149.2
105°	92.1	141.5	537.8	687.0	454.6
107.5°	113.5	150.7	513.4	999.9	936.5
110°	127.8	162.6	499.2	1050.6	1129.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	142.0	176.9	484.9	1020.9	1152.8
115°	163.4	198.3	463.5	963.4	1126.1
117.5°	185.4	219.7	458.2	901.1	1068.4
120°	202.0	234.0	448.7	853.7	1028.0
122.5°	213.9	248.2	436.8	813.0	973.4
125°	234.7	266.7	436.8	763.8	903.2
127.5°	252.0	284.5	437.4	706.7	844.4
130°	261.5	296.3	439.7	668.5	799.3
132.5°	273.4	308.2	439.7	651.4	758.8
135°	291.2	323.1	439.7	629.0	722.0
137.5°	306.0	340.3	439.7	604.4	684.0
140°	317.9	349.9	439.7	589.9	662.6
142.5°	329.8	359.4	442.1	573.2	641.2
145°	344.7	373.7	442.7	548.0	606.1
147.5°	362.5	388.1	446.3	529.9	574.6
150°	374.4	397.6	448.7	517.8	555.6
152.5°	386.3	407.2	448.7	508.2	539.0
155°	404.1	418.6	451.6	496.7	520.0
157.5°	418.3	432.3	455.2	489.4	506.3
160°	427.9	439.5	457.6	484.6	499.2
162.5°	435.0	446.6	459.9	482.2	492.0
165°	448.7	454.5	463.5	475.6	484.3
167.5°	456.4	461.6	466.5	472.5	477.8
170°	463.5	466.4	466.5	472.5	475.4
172.5°	465.9	471.1	468.9	470.1	473.0
175°	472.4	475.3	472.4	469.4	466.5
177.5°	472.4	474.7	472.4	472.4	470.0
180°	472.4	472.4	472.4	472.4	472.4

(END OF REPORT)