

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: P621804

Luminaire Tested: VLT-FB-075U-075D-940-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621804  
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-075D-940-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

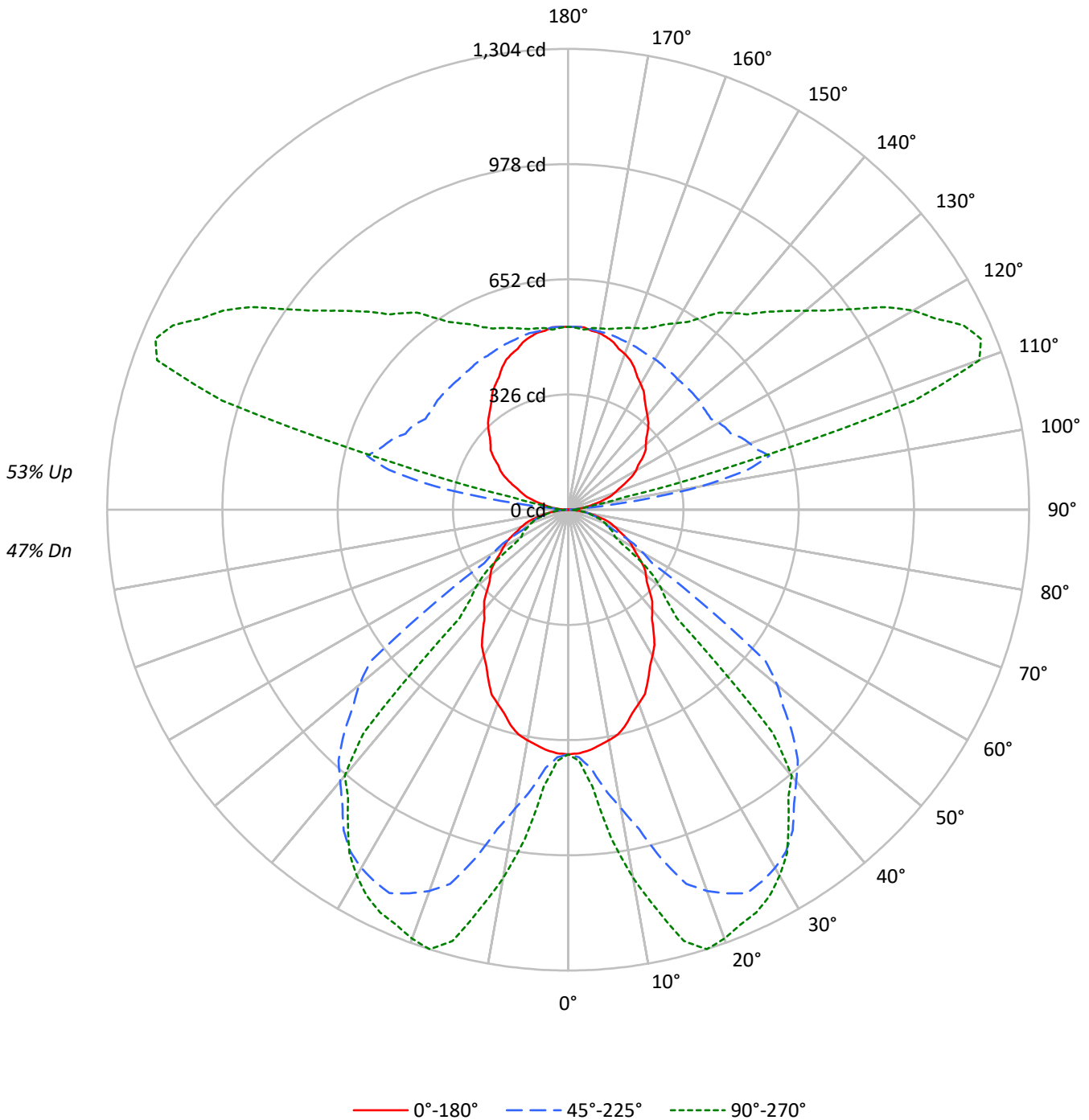
Lumens per Lamp: N/A  
Luminaire Lumens: 5263.0 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 42.4  
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	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	72	70	68	60	58	57	48	47	46				41	
2	89	82	77	72	82	76	71	67	64	61	57	53	51	48	43	41	40				35	
3	82	73	66	60	75	67	61	56	57	53	49	48	44	42	39	36	35				30	
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	38	35	31	32	29	27				23	
6	64	52	44	39	59	48	41	36	41	36	32	35	31	28	29	26	23				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°	4966	4966	4966
5°	4925	5279	5655
10°	4828	6242	7709
15°	4682	7608	9385
20°	4458	8766	9862
25°	4222	9479	9958
30°	3952	9699	9908
35°	3685	9698	9514
40°	3466	9396	9211
45°	3298	9108	4411
50°	3204	8622	3800
55°	3115	5773	3010
60°	3028	3513	2180
65°	2961	2676	2268
70°	2923	2331	2331
75°	2847	2418	2340
80°	2500	2442	2327
85°	1853	2544	2198

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 9108 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.6	1.4
10°-20°	275.2	5.2
20°-30°	466.1	8.9
30°-40°	565.5	10.7
40°-50°	497.7	9.5
50°-60°	308.0	5.9
60°-70°	167.0	3.2
70°-80°	95.1	1.8
80°-90°	32.3	0.6
90°-100°	63.7	1.2
100°-110°	453.7	8.6
110°-120°	615.9	11.7
120°-130°	501.3	9.5
130°-140°	403.2	7.7
140°-150°	317.8	6.0
150°-160°	232.4	4.4
160°-170°	144.4	2.7
170°-180°	49.2	0.9
0°-30°	816.0	15.5
0°-40°	1381.4	26.2
0°-60°	2187.1	41.6
0°-90°	2481.5	47.2
90°-120°	1133.2	21.5
90°-150°	2355.5	44.8
90°-180°	2781.0	52.8
0°-180°	5263.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	684	706	733	764	785	65
15°	630	726	1024	1211	1263	176
25°	533	730	1197	1233	1258	245
35°	421	676	1107	1092	1086	264
45°	325	556	898	761	435	252
55°	249	388	461	267	241	223
65°	174	218	158	135	134	173
75°	103	90	87	86	84	107
85°	22	31	31	28	27	27
90°	0	3	6	10	10	2
95°	26	48	26	30	36	29
105°	101	155	589	753	498	106
115°	179	217	508	1056	1234	178
125°	257	292	479	837	990	229
135°	319	354	482	689	791	246
145°	378	410	485	601	664	237
155°	443	459	495	544	570	203
165°	492	498	508	521	531	138
175°	518	521	518	514	511	49
180°	518	518	518	518	518	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	692.1	692.1	692.1	692.1	692.1
2.5°	689.9	697.6	701.1	708.0	711.3
5°	683.7	705.7	732.9	764.4	785.0
7.5°	672.7	712.1	798.2	897.4	939.7
10°	662.6	716.2	856.7	1000.1	1057.9
12.5°	651.3	720.4	925.4	1099.2	1158.1
15°	630.2	726.5	1024.1	1211.0	1263.3
17.5°	603.0	730.3	1109.7	1270.3	1303.8
20°	583.8	731.0	1147.9	1277.7	1291.4
22.5°	565.8	731.7	1175.0	1259.6	1271.2
25°	533.2	729.9	1197.2	1232.9	1257.7
27.5°	500.5	721.7	1186.2	1215.0	1232.9
30°	476.9	713.5	1170.5	1194.4	1195.8
32.5°	454.4	699.8	1146.8	1153.8	1151.9
35°	420.6	676.5	1107.1	1091.5	1086.0
37.5°	389.1	645.5	1049.2	1024.1	1022.7
40°	370.0	623.1	1003.0	979.2	983.3
42.5°	352.0	597.4	961.4	933.5	856.2
45°	325.0	556.1	897.5	760.7	434.7
47.5°	301.6	509.0	825.2	407.5	374.2
50°	287.0	476.8	772.3	358.3	340.4
52.5°	272.4	446.8	703.7	322.2	298.8
55°	249.0	387.9	461.4	266.7	240.6
57.5°	226.8	326.1	281.9	207.3	178.9
60°	211.0	289.4	244.8	167.1	151.9
62.5°	196.4	259.4	208.8	148.2	145.2
65°	174.4	218.5	157.6	135.0	133.6
67.5°	153.9	179.5	120.1	121.5	120.1
70°	139.3	151.7	111.1	112.5	111.1
72.5°	125.8	124.9	102.1	101.3	99.9
75°	102.7	90.3	87.2	85.8	84.4
77.5°	78.5	66.7	70.3	68.9	67.5
80°	60.5	56.4	59.1	57.6	56.3
82.5°	44.7	46.1	47.8	45.3	43.9
85°	22.5	30.8	30.9	28.1	26.7
87.5°	6.8	14.0	13.7	12.1	11.0
90°	0.0	3.2	6.5	9.8	9.8
92.5°	7.8	11.0	14.3	20.2	22.8
95°	26.1	48.3	26.1	29.5	35.8
97.5°	46.2	92.7	191.5	56.5	48.8
100°	61.9	116.0	384.3	113.1	74.9
102.5°	77.5	134.2	519.7	298.5	163.5
105°	101.0	155.1	589.4	753.0	498.3
107.5°	124.4	165.2	562.7	1095.9	1026.5
110°	140.0	178.2	547.1	1151.5	1237.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	155.7	193.9	531.5	1119.0	1263.5
115°	179.1	217.3	508.0	1055.9	1234.2
117.5°	203.2	240.8	502.2	987.6	1171.1
120°	221.4	256.5	491.7	935.7	1126.8
122.5°	234.5	272.0	478.7	891.1	1066.8
125°	257.3	292.3	478.7	837.2	990.0
127.5°	276.2	311.8	479.4	774.6	925.5
130°	286.6	324.8	482.0	732.7	876.0
132.5°	299.6	337.8	482.0	713.9	831.7
135°	319.1	354.2	482.0	689.4	791.3
137.5°	335.4	373.0	482.0	662.4	749.7
140°	348.5	383.5	482.0	646.6	726.2
142.5°	361.5	394.0	484.6	628.3	702.8
145°	377.8	409.6	485.2	600.7	664.3
147.5°	397.3	425.3	489.1	580.8	629.8
150°	410.3	435.8	491.7	567.6	609.0
152.5°	423.4	446.3	491.7	557.0	590.7
155°	442.9	458.8	495.0	544.4	569.9
157.5°	458.5	473.8	498.9	536.4	554.9
160°	468.9	481.7	501.5	531.2	547.1
162.5°	476.8	489.5	504.1	528.5	539.3
165°	491.7	498.1	508.0	521.3	530.8
167.5°	500.2	505.9	511.3	517.9	523.7
170°	508.0	511.2	511.3	517.9	521.0
172.5°	510.6	516.4	513.9	515.3	518.4
175°	517.8	521.0	517.8	514.5	511.3
177.5°	517.8	520.3	517.8	517.7	515.2
180°	517.8	517.8	517.8	517.8	517.8

(END OF REPORT)