

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: P621857

Luminaire Tested: VLT-FB-100U-100D-935-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621857  
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-100U-100D-935-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

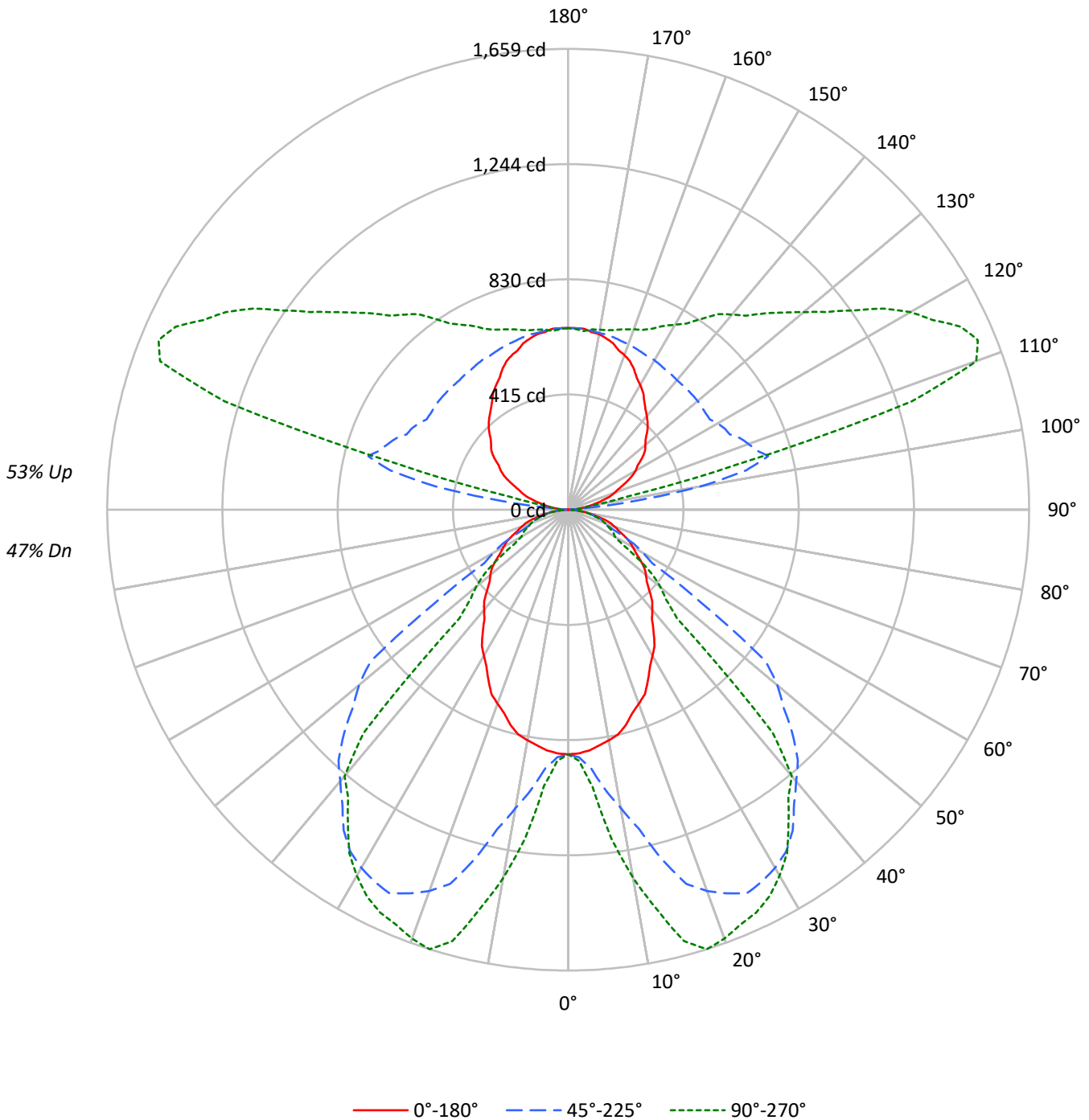
Lumens per Lamp: N/A  
Luminaire Lumens: 6670.1 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 58.2  
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	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	58	53	51	49	43	42	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	52	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°	6320	6320	6320
5°	6266	6718	7195
10°	6143	7943	9809
15°	5957	9681	11942
20°	5673	11154	12548
25°	5371	12061	12671
30°	5028	12340	12607
35°	4688	12341	12106
40°	4410	11956	11721
45°	4196	11589	5613
50°	4077	10971	4836
55°	3963	7345	3830
60°	3853	4471	2774
65°	3769	3404	2888
70°	3718	2967	2967
75°	3624	3078	2978
80°	3182	3108	2959
85°	2355	3244	2799

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 11589 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.0	1.4
10°-20°	350.2	5.2
20°-30°	593.1	8.9
30°-40°	719.5	10.8
40°-50°	633.3	9.5
50°-60°	391.9	5.9
60°-70°	212.5	3.2
70°-80°	121.0	1.8
80°-90°	41.1	0.6
90°-100°	80.4	1.2
100°-110°	572.9	8.6
110°-120°	777.8	11.7
120°-130°	633.0	9.5
130°-140°	509.1	7.6
140°-150°	401.4	6.0
150°-160°	293.5	4.4
160°-170°	182.3	2.7
170°-180°	62.2	0.9
0°-30°	1038.2	15.6
0°-40°	1757.7	26.4
0°-60°	2782.9	41.7
0°-90°	3157.5	47.3
90°-120°	1431.1	21.5
90°-150°	2974.6	44.6
90°-180°	3513.0	52.7
0°-180°	6670.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	881	881	881	881	881	
5°	870	898	933	973	999	82
15°	802	924	1303	1541	1607	225
25°	678	929	1523	1569	1600	312
35°	535	861	1409	1389	1382	335
45°	414	708	1142	968	553	321
55°	317	494	587	339	306	284
65°	222	278	200	172	170	220
75°	131	115	111	109	107	137
85°	29	39	39	36	34	35
90°	0	4	8	12	12	3
95°	33	61	33	37	45	37
105°	128	196	744	951	629	134
115°	226	274	642	1334	1559	225
125°	325	369	604	1057	1250	289
135°	403	447	609	871	999	310
145°	477	517	613	758	839	300
155°	559	579	625	688	720	257
165°	621	629	642	658	670	174
175°	654	658	654	650	646	62
180°	654	654	654	654	654	



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CATALOG NUMBER: VLT-FB-100U-100D-935-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	880.7	880.7	880.7	880.7	880.7
2.5°	877.8	887.6	892.1	900.8	905.0
5°	869.9	897.9	932.6	972.6	998.8
7.5°	856.0	906.0	1015.6	1141.8	1195.7
10°	843.1	911.3	1090.1	1272.6	1346.1
12.5°	828.8	916.6	1177.5	1398.6	1473.5
15°	801.9	924.4	1303.1	1540.9	1607.4
17.5°	767.2	929.3	1412.0	1616.3	1659.0
20°	742.9	930.1	1460.6	1625.7	1643.2
22.5°	719.9	931.0	1495.0	1602.7	1617.4
25°	678.4	928.7	1523.3	1568.8	1600.3
27.5°	636.9	918.3	1509.3	1546.0	1568.8
30°	606.8	907.8	1489.3	1519.8	1521.5
32.5°	578.2	890.4	1459.2	1468.1	1465.7
35°	535.2	860.8	1408.7	1388.9	1381.9
37.5°	495.1	821.4	1335.0	1303.1	1301.3
40°	470.8	792.8	1276.3	1246.0	1251.2
42.5°	447.9	760.1	1223.3	1187.8	1089.4
45°	413.5	707.5	1142.0	967.9	553.1
47.5°	383.8	647.7	1050.0	518.5	476.1
50°	365.2	606.7	982.7	455.9	433.2
52.5°	346.5	568.5	895.4	410.0	380.2
55°	316.8	493.6	587.1	339.3	306.1
57.5°	288.5	414.9	358.7	263.7	227.7
60°	268.5	368.3	311.5	212.6	193.3
62.5°	249.9	330.0	265.6	188.6	184.7
65°	222.0	278.0	200.5	171.8	170.1
67.5°	195.8	228.4	152.9	154.6	152.9
70°	177.2	193.0	141.4	143.2	141.4
72.5°	160.0	159.0	130.0	128.8	127.1
75°	130.7	114.9	111.0	109.2	107.4
77.5°	99.9	84.8	89.5	87.7	85.9
80°	77.0	71.7	75.2	73.4	71.6
82.5°	56.9	58.7	60.9	57.6	55.8
85°	28.6	39.1	39.4	35.8	34.0
87.5°	8.6	17.8	17.4	15.3	13.9
90°	0.0	4.0	8.2	12.3	12.3
92.5°	9.9	13.9	18.1	25.6	28.8
95°	32.9	61.0	32.9	37.2	45.2
97.5°	58.4	117.1	241.8	71.3	61.7
100°	78.1	146.5	485.3	142.8	94.6
102.5°	97.9	169.5	656.4	376.9	206.5
105°	127.5	195.8	744.4	950.9	629.2
107.5°	157.1	208.6	710.6	1383.9	1296.3
110°	176.8	225.1	690.9	1454.2	1562.8



TEST NUMBER: P621857

CATALOG NUMBER: VLT-FB-100U-100D-935-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	196.6	244.8	671.2	1413.1	1595.7
115°	226.2	274.4	641.6	1333.5	1558.7
117.5°	256.6	304.1	634.2	1247.3	1478.9
120°	279.7	323.9	621.0	1181.7	1422.9
122.5°	296.1	343.6	604.5	1125.3	1347.3
125°	324.9	369.1	604.5	1057.2	1250.2
127.5°	348.7	393.8	605.4	978.2	1168.8
130°	361.9	410.2	608.7	925.3	1106.3
132.5°	378.4	426.6	608.7	901.6	1050.3
135°	403.0	447.3	608.7	870.7	999.3
137.5°	423.6	471.0	608.7	836.5	946.7
140°	440.0	484.3	608.7	816.6	917.1
142.5°	456.5	497.5	611.9	793.4	887.5
145°	477.1	517.3	612.8	758.5	839.0
147.5°	501.7	537.1	617.7	733.4	795.4
150°	518.2	550.4	621.0	716.8	769.0
152.5°	534.6	563.6	621.0	703.4	746.0
155°	559.3	579.4	625.1	687.5	719.7
157.5°	579.0	598.3	630.0	677.5	700.8
160°	592.2	608.3	633.3	670.8	690.9
162.5°	602.1	618.2	636.6	667.4	681.0
165°	621.0	629.0	641.6	658.3	670.3
167.5°	631.7	638.9	645.7	654.1	661.3
170°	641.6	645.6	645.7	654.0	658.0
172.5°	644.8	652.1	649.0	650.7	654.7
175°	653.9	657.9	653.9	649.7	645.7
177.5°	653.9	657.1	653.9	653.8	650.6
180°	653.9	653.9	653.9	653.9	653.9

(END OF REPORT)