

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: P621805

Luminaire Tested: VLT-FB-075U-100D-830-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621805  
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-100D-830-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

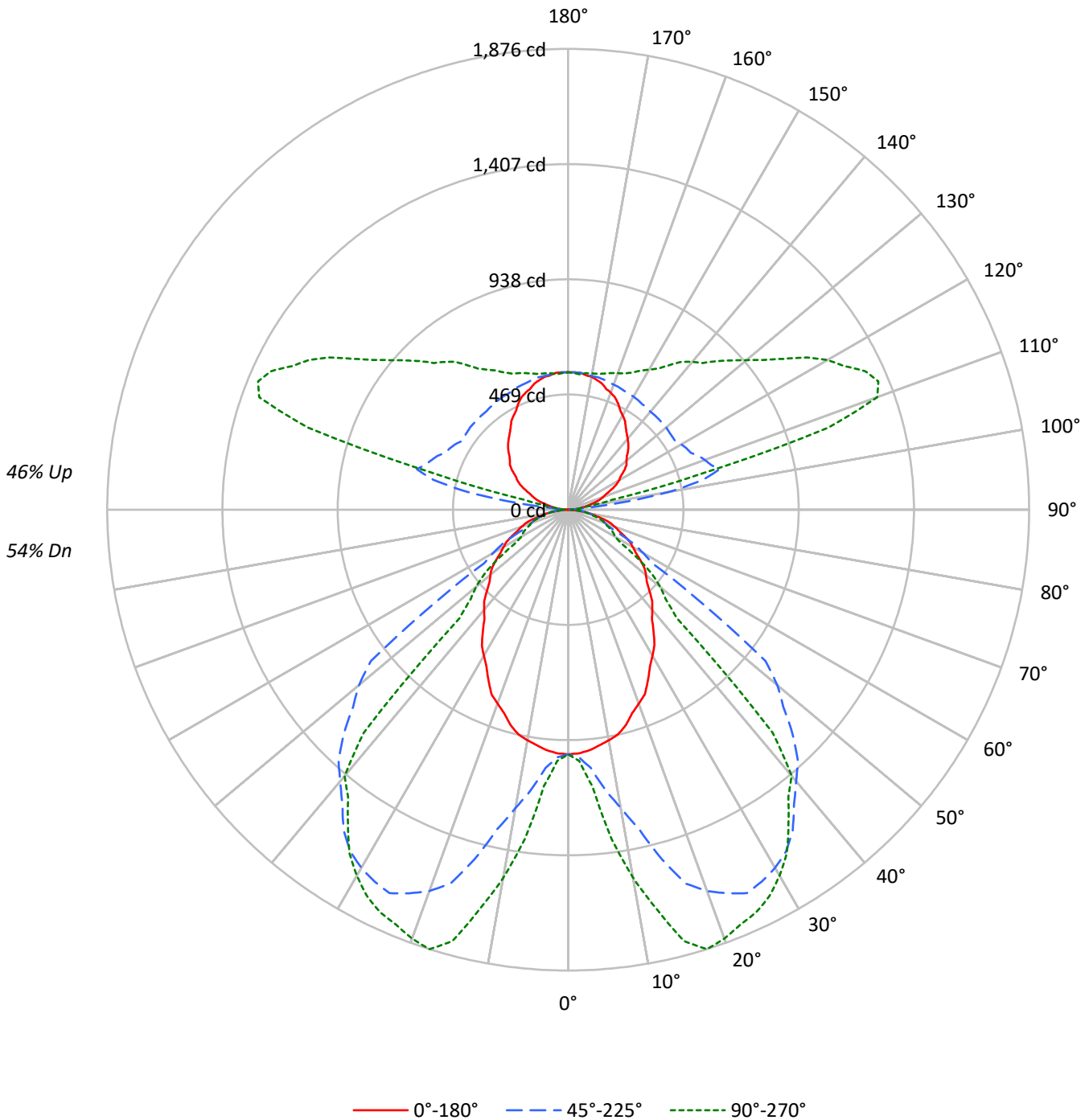
Lumens per Lamp: N/A  
Luminaire Lumens: 6576.5 lumens  
Efficiency: N/A  
Efficacy: 131.5 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 50  
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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	99	95	92	88	92	89	85	83	76	74	72	65	63	62	54	53	52	47
2	91	84	78	73	84	78	73	69	68	64	61	58	55	52	48	47	45	40
3	83	74	67	62	77	69	63	58	60	55	52	51	48	45	43	41	39	35
4	77	66	59	53	71	62	55	50	54	49	44	46	42	39	39	36	34	31
5	71	59	51	46	65	55	48	43	48	43	39	42	38	34	36	32	30	27
6	65	53	45	40	60	50	43	38	44	38	34	38	33	30	32	29	26	24
7	60	48	40	35	56	45	38	33	40	34	30	34	30	27	30	26	24	21
8	56	44	36	31	52	41	34	30	36	31	27	32	27	24	27	24	21	19
9	52	40	33	28	48	38	31	26	33	28	24	29	25	22	25	22	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	22	19	23	20	17	15

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

	0°	45°	90°
0°	7145	7145	7145
5°	7085	7595	8135
10°	6946	8981	11090
15°	6736	10946	13502
20°	6414	12612	14188
25°	6073	13637	14326
30°	5685	13952	14255
35°	5301	13953	13687
40°	4986	13517	13252
45°	4744	13104	6347
50°	4610	12404	5468
55°	4481	8305	4330
60°	4357	5055	3137
65°	4262	3849	3265
70°	4205	3355	3355
75°	4095	3480	3366
80°	3595	3513	3347
85°	2668	3664	3170

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 13104 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.4	1.6
10°-20°	395.9	6.0
20°-30°	670.6	10.2
30°-40°	813.5	12.4
40°-50°	716.0	10.9
50°-60°	443.1	6.7
60°-70°	240.2	3.7
70°-80°	136.8	2.1
80°-90°	46.0	0.7
90°-100°	68.8	1.0
100°-110°	490.4	7.5
110°-120°	665.8	10.1
120°-130°	541.9	8.2
130°-140°	435.8	6.6
140°-150°	343.6	5.2
150°-160°	251.2	3.8
160°-170°	156.1	2.4
170°-180°	53.2	0.8
0°-30°	1173.9	17.8
0°-40°	1987.4	30.2
0°-60°	3146.5	47.8
0°-90°	3569.5	54.3
90°-120°	1225.1	18.6
90°-150°	2546.4	38.7
90°-180°	3007.0	45.7
0°-180°	6576.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	984	1015	1054	1100	1129	93
15°	907	1045	1473	1742	1817	254
25°	767	1050	1722	1774	1809	352
35°	605	973	1593	1570	1562	379
45°	468	800	1291	1094	625	363
55°	358	558	664	384	346	321
65°	251	314	227	194	192	249
75°	148	130	126	123	121	154
85°	32	44	44	40	38	39
90°	0	3	7	11	11	2
95°	28	52	28	32	39	31
105°	109	168	637	814	539	115
115°	194	235	549	1142	1334	192
125°	278	316	518	905	1070	247
135°	345	383	521	745	856	265
145°	408	443	525	649	718	257
155°	479	496	535	589	616	220
165°	532	538	549	564	574	149
175°	560	563	560	556	553	53
180°	560	560	560	560	560	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	995.7	995.7	995.7	995.7	995.7
2.5°	992.5	1003.6	1008.7	1018.5	1023.3
5°	983.6	1015.3	1054.4	1099.6	1129.3
7.5°	967.8	1024.4	1148.3	1291.0	1351.9
10°	953.2	1030.4	1232.5	1438.8	1521.9
12.5°	937.0	1036.4	1331.3	1581.3	1666.0
15°	906.7	1045.2	1473.4	1742.2	1817.4
17.5°	867.4	1050.7	1596.4	1827.4	1875.7
20°	839.9	1051.6	1651.5	1838.1	1857.9
22.5°	814.0	1052.6	1690.3	1812.1	1828.8
25°	767.0	1050.0	1722.3	1773.7	1809.3
27.5°	720.1	1038.3	1706.5	1748.0	1773.7
30°	686.1	1026.5	1683.8	1718.3	1720.3
32.5°	653.7	1006.7	1649.8	1659.9	1657.1
35°	605.1	973.2	1592.8	1570.3	1562.4
37.5°	559.8	928.7	1509.4	1473.3	1471.3
40°	532.3	896.4	1443.0	1408.7	1414.7
42.5°	506.4	859.4	1383.1	1342.9	1231.7
45°	467.5	800.0	1291.2	1094.4	625.4
47.5°	433.9	732.3	1187.2	586.2	538.3
50°	412.9	686.0	1111.1	515.5	489.8
52.5°	391.8	642.7	1012.3	463.5	429.9
55°	358.2	558.1	663.8	383.7	346.1
57.5°	326.2	469.1	405.6	298.2	257.4
60°	303.6	416.4	352.2	240.3	218.6
62.5°	282.5	373.2	300.3	213.2	208.9
65°	251.0	314.3	226.7	194.2	192.3
67.5°	221.4	258.2	172.8	174.8	172.8
70°	200.4	218.2	159.9	161.9	159.9
72.5°	180.9	179.7	146.9	145.7	143.7
75°	147.7	129.9	125.5	123.4	121.4
77.5°	112.9	95.9	101.2	99.1	97.1
80°	87.0	81.1	85.0	82.9	81.0
82.5°	64.4	66.3	68.8	65.1	63.1
85°	32.4	44.3	44.5	40.4	38.5
87.5°	9.7	19.9	19.2	16.6	15.1
90°	0.0	3.4	7.0	10.6	10.6
92.5°	8.4	11.9	15.5	21.9	24.6
95°	28.2	52.3	28.2	31.8	38.7
97.5°	50.0	100.3	207.0	61.1	52.8
100°	66.9	125.4	415.4	122.3	81.0
102.5°	83.8	145.1	561.9	322.7	176.7
105°	109.1	167.7	637.2	814.0	538.6
107.5°	134.5	178.5	608.4	1184.7	1109.7
110°	151.4	192.7	591.5	1244.9	1337.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	168.3	209.6	574.6	1209.7	1366.0
115°	193.6	234.9	549.2	1141.5	1334.3
117.5°	219.7	260.3	542.9	1067.7	1266.0
120°	239.4	277.3	531.6	1011.6	1218.1
122.5°	253.5	294.1	517.5	963.3	1153.3
125°	278.1	316.0	517.5	905.0	1070.3
127.5°	298.5	337.1	518.2	837.4	1000.5
130°	309.8	351.1	521.0	792.1	947.0
132.5°	323.9	365.2	521.0	771.8	899.2
135°	345.0	382.9	521.0	745.3	855.5
137.5°	362.6	403.2	521.0	716.1	810.4
140°	376.7	414.6	521.0	699.0	785.1
142.5°	390.8	425.9	523.9	679.2	759.7
145°	408.4	442.8	524.6	649.4	718.2
147.5°	429.5	459.8	528.8	627.9	680.9
150°	443.6	471.1	531.6	613.6	658.3
152.5°	457.7	482.5	531.6	602.1	638.6
155°	478.8	496.0	535.1	588.6	616.1
157.5°	495.7	512.2	539.4	579.9	599.9
160°	507.0	520.7	542.2	574.2	591.5
162.5°	515.4	529.2	545.0	571.3	583.0
165°	531.6	538.5	549.2	563.5	573.9
167.5°	540.8	547.0	552.7	559.9	566.1
170°	549.2	552.7	552.7	559.9	563.3
172.5°	552.0	558.2	555.5	557.0	560.5
175°	559.8	563.2	559.8	556.2	552.7
177.5°	559.8	562.5	559.8	559.7	557.0
180°	559.8	559.8	559.8	559.8	559.8

(END OF REPORT)