

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: P621755

Luminaire Tested: VLT-FB-025U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621755  
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-025U-075D-935-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

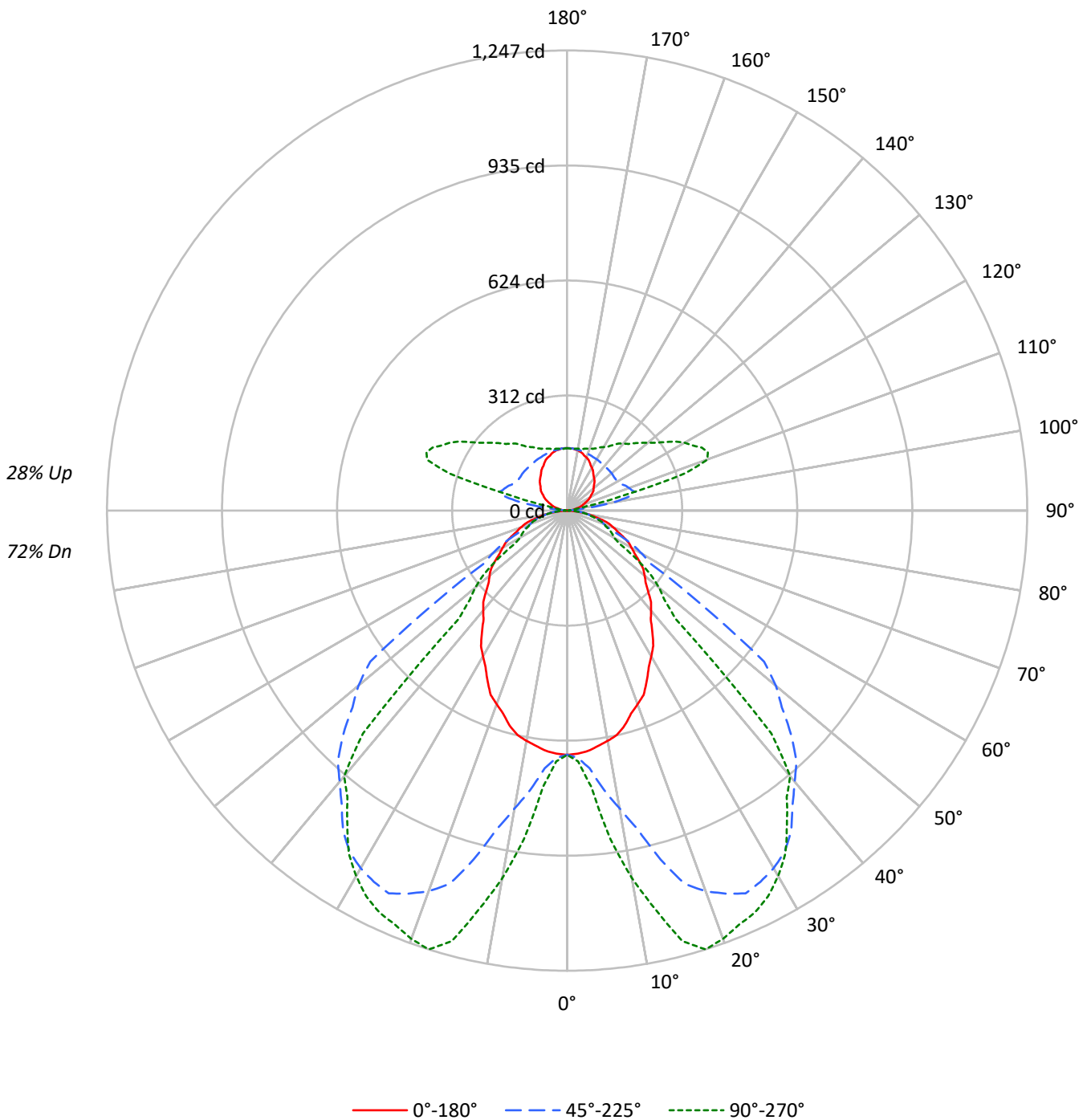
Lumens per Lamp: N/A  
Luminaire Lumens: 3280.1 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 29.9  
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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77	77	77	77	72	
1	104	100	96	92	98	95	91	88	85	83	81	77	75	73	69	68	66	66	66	66	63	
2	95	88	82	77	90	84	79	74	76	72	68	69	65	63	62	60	57	57	57	57	54	
3	87	78	71	65	83	75	68	63	68	63	58	61	57	54	56	52	50	50	50	50	47	
4	80	70	62	56	76	67	60	54	61	55	51	55	51	47	50	47	44	44	44	44	41	
5	74	63	55	49	70	60	53	47	55	49	44	50	45	41	46	42	38	38	38	38	36	
6	69	56	48	43	65	54	47	41	50	43	39	45	40	36	41	37	34	34	34	34	32	
7	64	51	43	38	60	49	42	37	45	39	34	41	36	32	38	34	30	30	30	30	28	
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	35	31	27	27	27	27	25	
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	25	25	25	25	23	
10	52	39	32	27	49	38	31	26	35	29	25	32	27	24	30	25	22	22	22	22	21	

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

	0°	45°	90°
0°	4749	4749	4749
5°	4709	5048	5407
10°	4617	5969	7370
15°	4477	7275	8974
20°	4263	8382	9430
25°	4036	9063	9521
30°	3778	9273	9474
35°	3523	9274	9097
40°	3314	8984	8807
45°	3153	8709	4218
50°	3063	8244	3634
55°	2979	5520	2878
60°	2896	3360	2085
65°	2832	2559	2170
70°	2795	2230	2230
75°	2723	2312	2237
80°	2389	2335	2223
85°	1770	2437	2108

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 8709 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.4	2.2
10°-20°	263.1	8.0
20°-30°	445.7	13.6
30°-40°	540.7	16.5
40°-50°	475.9	14.5
50°-60°	294.5	9.0
60°-70°	159.7	4.9
70°-80°	91.0	2.8
80°-90°	30.1	0.9
90°-100°	20.8	0.6
100°-110°	148.1	4.5
110°-120°	201.1	6.1
120°-130°	163.6	5.0
130°-140°	131.6	4.0
140°-150°	103.8	3.2
150°-160°	75.9	2.3
160°-170°	47.1	1.4
170°-180°	16.1	0.5
0°-30°	780.2	23.8
0°-40°	1320.9	40.3
0°-60°	2091.3	63.8
0°-90°	2372.0	72.3
90°-120°	369.9	11.3
90°-150°	769.0	23.4
90°-180°	908.0	27.7
0°-180°	3280.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	662	662	662	662	662	
5°	654	675	701	731	751	62
15°	603	695	979	1158	1208	169
25°	510	698	1145	1179	1202	234
35°	402	647	1059	1044	1038	252
45°	311	532	858	727	416	241
55°	238	371	441	255	230	213
65°	167	209	151	129	128	166
75°	98	86	83	82	81	103
85°	22	29	30	27	26	26
90°	0	1	2	3	3	1
95°	8	16	8	10	12	10
105°	33	51	192	246	163	35
115°	58	71	166	345	403	58
125°	84	95	156	273	323	75
135°	104	116	157	225	258	80
145°	123	134	158	196	217	77
155°	145	150	162	178	186	66
165°	160	163	166	170	173	45
175°	169	170	169	168	167	16
180°	169	169	169	169	169	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	661.8	661.8	661.8	661.8	661.8
2.5°	659.6	667.0	670.4	676.9	680.1
5°	653.7	674.8	700.8	730.8	750.6
7.5°	643.2	680.9	763.2	858.0	898.5
10°	633.6	684.8	819.2	956.3	1011.5
12.5°	622.8	688.8	884.8	1051.0	1107.3
15°	602.6	694.7	979.2	1157.9	1207.9
17.5°	576.5	698.3	1061.0	1214.6	1246.7
20°	558.2	699.0	1097.6	1221.7	1234.8
22.5°	541.0	699.6	1123.4	1204.4	1215.4
25°	509.8	697.9	1144.7	1178.9	1202.5
27.5°	478.6	690.1	1134.2	1161.8	1178.9
30°	456.0	682.2	1119.1	1142.0	1143.4
32.5°	434.5	669.1	1096.5	1103.2	1101.4
35°	402.2	646.8	1058.6	1043.7	1038.4
37.5°	372.1	617.2	1003.2	979.2	977.9
40°	353.8	595.8	959.1	936.3	940.2
42.5°	336.5	571.2	919.3	892.6	818.6
45°	310.7	531.7	858.2	727.4	415.6
47.5°	288.4	486.7	789.0	389.6	357.8
50°	274.4	455.9	738.5	342.6	325.5
52.5°	260.4	427.2	672.8	308.1	285.7
55°	238.1	370.9	441.2	255.0	230.0
57.5°	216.8	311.8	269.6	198.2	171.1
60°	201.8	276.7	234.1	159.7	145.3
62.5°	187.8	248.0	199.6	141.7	138.8
65°	166.8	208.9	150.7	129.1	127.8
67.5°	147.2	171.6	114.9	116.2	114.9
70°	133.2	145.0	106.3	107.6	106.3
72.5°	120.3	119.5	97.7	96.8	95.5
75°	98.2	86.4	83.4	82.0	80.7
77.5°	75.1	63.7	67.3	65.9	64.6
80°	57.8	53.9	56.5	55.1	53.8
82.5°	42.8	44.1	45.7	43.3	42.0
85°	21.5	29.4	29.6	26.9	25.6
87.5°	6.5	13.0	12.3	10.3	9.2
90°	0.0	1.0	2.1	3.2	3.2
92.5°	2.6	3.6	4.7	6.6	7.4
95°	8.5	15.8	8.5	9.6	11.7
97.5°	15.1	30.3	62.5	18.4	15.9
100°	20.2	37.9	125.5	36.9	24.5
102.5°	25.3	43.8	169.7	97.4	53.4
105°	33.0	50.6	192.4	245.8	162.7
107.5°	40.6	53.9	183.7	357.8	335.1
110°	45.7	58.2	178.6	375.9	404.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	50.8	63.3	173.5	365.3	412.5
115°	58.5	70.9	165.9	344.7	402.9
117.5°	66.3	78.6	163.9	322.4	382.3
120°	72.3	83.7	160.5	305.5	367.9
122.5°	76.5	88.8	156.3	290.9	348.3
125°	84.0	95.4	156.3	273.3	323.2
127.5°	90.2	101.8	156.5	252.9	302.2
130°	93.6	106.0	157.4	239.2	286.0
132.5°	97.8	110.3	157.4	233.1	271.5
135°	104.2	115.6	157.4	225.1	258.4
137.5°	109.5	121.8	157.4	216.3	244.7
140°	113.8	125.2	157.4	211.1	237.1
142.5°	118.0	128.6	158.2	205.1	229.4
145°	123.3	133.7	158.4	196.1	216.9
147.5°	129.7	138.9	159.7	189.6	205.6
150°	134.0	142.3	160.5	185.3	198.8
152.5°	138.2	145.7	160.5	181.8	192.9
155°	144.6	149.8	161.6	177.7	186.1
157.5°	149.7	154.7	162.9	175.1	181.2
160°	153.1	157.3	163.7	173.4	178.6
162.5°	155.7	159.8	164.6	172.5	176.1
165°	160.5	162.6	165.9	170.2	173.3
167.5°	163.3	165.2	166.9	169.1	171.0
170°	165.9	166.9	166.9	169.1	170.1
172.5°	166.7	168.6	167.8	168.2	169.3
175°	169.0	170.1	169.0	168.0	166.9
177.5°	169.0	169.9	169.0	169.0	168.2
180°	169.0	169.0	169.0	169.0	169.0

(END OF REPORT)