

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: P621752

Luminaire Tested: VLT-FB-025U-075D-835-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621752  
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-835-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, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

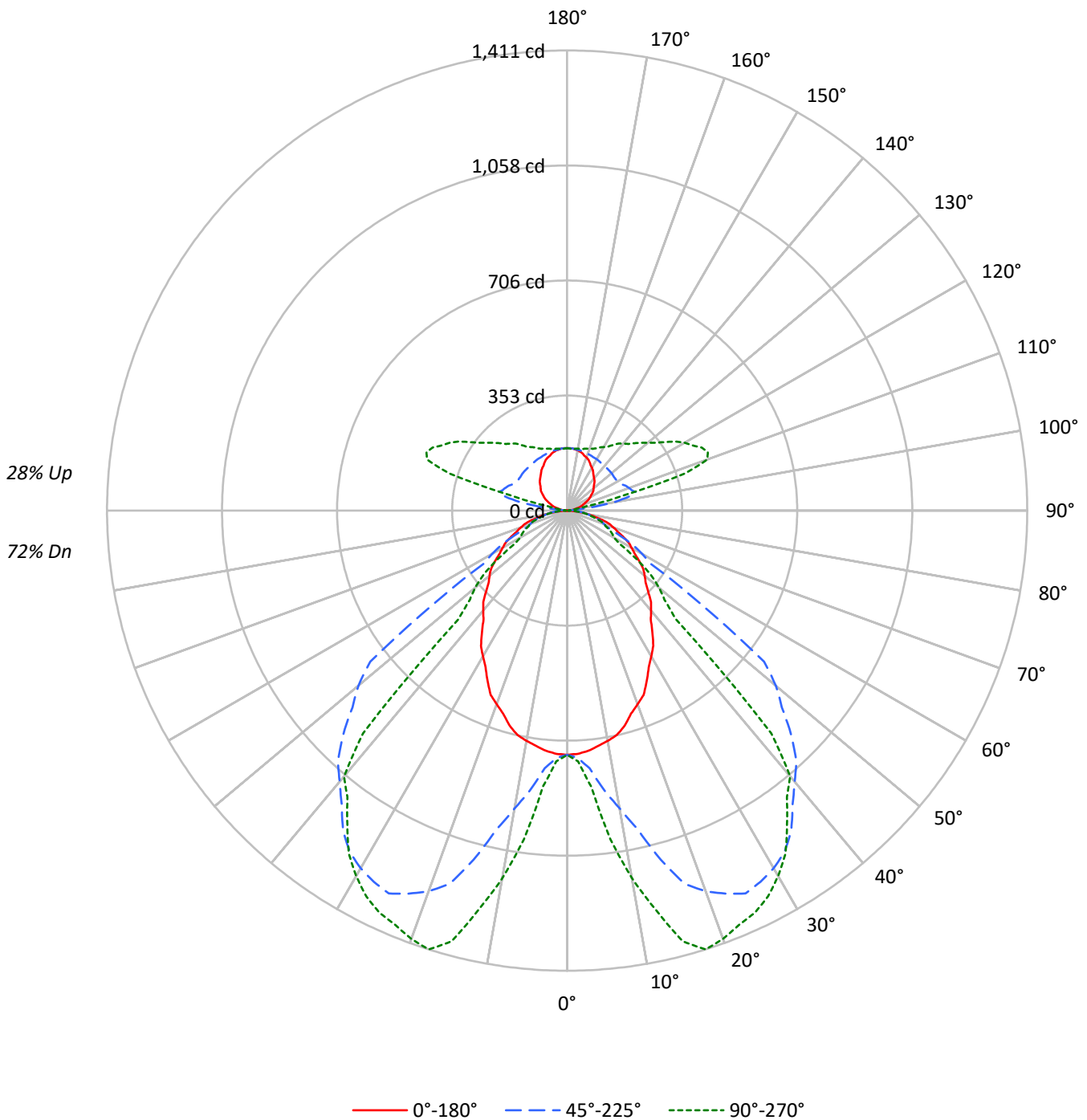
Lumens per Lamp: N/A  
Luminaire Lumens: 3712.0 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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°	5374	5374	5374
5°	5329	5713	6119
10°	5225	6755	8341
15°	5067	8233	10156
20°	4824	9485	10671
25°	4568	10257	10775
30°	4276	10494	10721
35°	3987	10495	10295
40°	3750	10167	9967
45°	3568	9856	4774
50°	3466	9330	4113
55°	3370	6247	3257
60°	3277	3802	2359
65°	3206	2895	2455
70°	3162	2524	2524
75°	3080	2617	2531
80°	2707	2641	2517
85°	2009	2758	2379

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 9856 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.8	2.2
10°-20°	297.8	8.0
20°-30°	504.4	13.6
30°-40°	611.9	16.5
40°-50°	538.6	14.5
50°-60°	333.3	9.0
60°-70°	180.7	4.9
70°-80°	102.9	2.8
80°-90°	34.1	0.9
90°-100°	23.5	0.6
100°-110°	167.6	4.5
110°-120°	227.5	6.1
120°-130°	185.2	5.0
130°-140°	149.0	4.0
140°-150°	117.4	3.2
150°-160°	85.9	2.3
160°-170°	53.3	1.4
170°-180°	18.2	0.5
0°-30°	882.9	23.8
0°-40°	1494.8	40.3
0°-60°	2366.6	63.8
0°-90°	2684.3	72.3
90°-120°	418.7	11.3
90°-150°	870.3	23.4
90°-180°	1028.0	27.7
0°-180°	3712.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	740	764	793	827	849	70
15°	682	786	1108	1310	1367	191
25°	577	790	1295	1334	1361	265
35°	455	732	1198	1181	1175	285
45°	352	602	971	823	470	273
55°	269	420	499	289	260	241
65°	189	236	170	146	145	187
75°	111	98	94	93	91	116
85°	24	33	34	30	29	30
90°	0	1	2	4	4	1
95°	10	18	10	11	13	11
105°	37	57	218	278	184	39
115°	66	80	188	390	456	66
125°	95	108	177	309	366	84
135°	118	131	178	255	292	91
145°	140	151	179	222	245	88
155°	164	170	183	201	211	75
165°	182	184	188	193	196	51
175°	191	192	191	190	189	18
180°	191	191	191	191	191	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	748.9	748.9	748.9	748.9	748.9
2.5°	746.5	754.8	758.7	766.1	769.6
5°	739.8	763.6	793.1	827.1	849.4
7.5°	727.9	770.5	863.7	971.0	1016.8
10°	717.0	775.0	927.0	1082.2	1144.7
12.5°	704.8	779.5	1001.3	1189.4	1253.1
15°	682.0	786.1	1108.2	1310.4	1367.0
17.5°	652.4	790.2	1200.7	1374.5	1410.8
20°	631.7	791.0	1242.1	1382.5	1397.4
22.5°	612.2	791.7	1271.4	1363.0	1375.5
25°	576.9	789.8	1295.4	1334.1	1360.9
27.5°	541.6	780.9	1283.5	1314.7	1334.1
30°	516.0	772.0	1266.5	1292.4	1293.9
32.5°	491.7	757.2	1240.9	1248.5	1246.4
35°	455.1	732.0	1198.0	1181.1	1175.2
37.5°	421.0	698.5	1135.3	1108.1	1106.7
40°	400.3	674.2	1085.3	1059.6	1064.0
42.5°	380.9	646.4	1040.3	1010.1	926.4
45°	351.6	601.7	971.2	823.1	470.4
47.5°	326.4	550.8	892.9	440.9	404.9
50°	310.5	515.9	835.7	387.7	368.4
52.5°	294.7	483.4	761.4	348.6	323.3
55°	269.4	419.8	499.3	288.6	260.3
57.5°	245.4	352.8	305.1	224.3	193.6
60°	228.3	313.2	264.9	180.8	164.4
62.5°	212.5	280.7	225.9	160.4	157.1
65°	188.8	236.4	170.5	146.1	144.6
67.5°	166.5	194.2	130.0	131.5	130.0
70°	150.7	164.1	120.3	121.7	120.3
72.5°	136.1	135.2	110.5	109.6	108.1
75°	111.1	97.7	94.4	92.8	91.3
77.5°	84.9	72.1	76.1	74.6	73.1
80°	65.5	61.0	63.9	62.4	60.9
82.5°	48.4	49.9	51.8	49.0	47.5
85°	24.4	33.3	33.5	30.4	28.9
87.5°	7.3	14.7	13.9	11.7	10.5
90°	0.0	1.2	2.4	3.6	3.6
92.5°	2.9	4.1	5.3	7.5	8.4
95°	9.6	17.9	9.6	10.9	13.2
97.5°	17.1	34.3	70.7	20.9	18.0
100°	22.9	42.9	142.0	41.8	27.7
102.5°	28.6	49.6	192.0	110.3	60.4
105°	37.3	57.3	217.8	278.2	184.1
107.5°	46.0	61.0	207.9	404.9	379.2
110°	51.7	65.9	202.1	425.4	457.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	57.5	71.6	196.4	413.4	466.8
115°	66.2	80.3	187.7	390.1	456.0
117.5°	75.1	89.0	185.5	364.9	432.7
120°	81.8	94.8	181.7	345.7	416.3
122.5°	86.6	100.5	176.9	329.2	394.2
125°	95.1	108.0	176.9	309.3	365.8
127.5°	102.0	115.2	177.1	286.2	341.9
130°	105.9	120.0	178.1	270.7	323.7
132.5°	110.7	124.8	178.1	263.8	307.3
135°	117.9	130.9	178.1	254.7	292.4
137.5°	123.9	137.8	178.1	244.7	277.0
140°	128.7	141.7	178.1	238.9	268.3
142.5°	133.6	145.6	179.0	232.1	259.6
145°	139.6	151.3	179.3	221.9	245.4
147.5°	146.8	157.1	180.7	214.6	232.7
150°	151.6	161.0	181.7	209.7	225.0
152.5°	156.4	164.9	181.7	205.8	218.3
155°	163.6	169.5	182.9	201.1	210.6
157.5°	169.4	175.1	184.3	198.2	205.0
160°	173.3	178.0	185.3	196.2	202.1
162.5°	176.1	180.8	186.3	195.2	199.2
165°	181.7	184.0	187.7	192.6	196.1
167.5°	184.8	186.9	188.9	191.4	193.5
170°	187.7	188.9	188.9	191.3	192.5
172.5°	188.7	190.8	189.9	190.4	191.5
175°	191.3	192.5	191.3	190.1	188.9
177.5°	191.3	192.2	191.3	191.3	190.3
180°	191.3	191.3	191.3	191.3	191.3

(END OF REPORT)