

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: P621878

Luminaire Tested: VLT-FB-125U-100D-835-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621878  
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-125U-100D-835-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

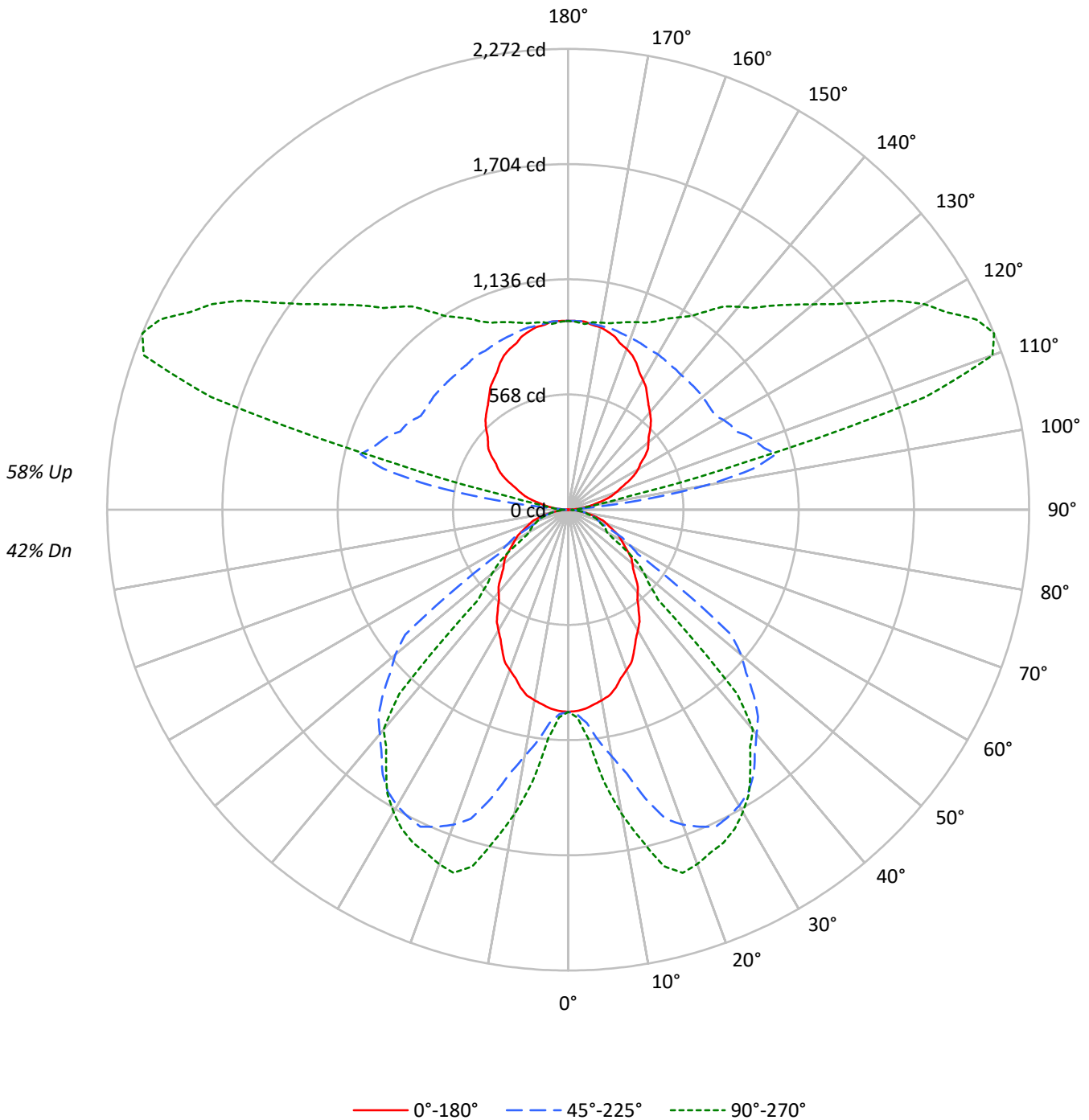
Lumens per Lamp: N/A  
Luminaire Lumens: 8575.0 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 67.4  
Input Voltage (V): 120  
Input Current (Ain): 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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	42				
1	96	92	89	85	88	84	81	79	70	68	66	56	55	53	44	43	42	36				
2	88	81	75	71	80	74	69	65	62	58	55	50	47	45	39	37	36	31				
3	81	72	65	59	74	66	60	55	55	50	47	45	41	39	35	33	31	27				
4	74	64	56	50	67	59	52	47	49	44	40	40	36	34	32	29	27	23				
5	68	57	49	43	62	52	46	41	44	39	35	36	32	29	29	26	24	21				
6	63	51	43	38	57	47	40	35	40	34	31	33	29	26	26	23	21	18				
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	20	17	15	13				
10	47	35	28	23	43	32	26	22	27	23	19	23	19	16	19	16	14	12				

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

	0°	45°	90°
0°	7152	7152	7152
5°	7092	7602	8142
10°	6952	8989	11100
15°	6742	10956	13514
20°	6420	12623	14201
25°	6078	13649	14339
30°	5690	13965	14267
35°	5306	13966	13699
40°	4991	13530	13264
45°	4748	13116	6352
50°	4613	12415	5472
55°	4485	8312	4334
60°	4362	5059	3140
65°	4265	3853	3267
70°	4207	3357	3357
75°	4101	3482	3369
80°	3599	3517	3347
85°	2668	3672	3170

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 13116 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.5	1.3
10°-20°	396.3	4.6
20°-30°	671.2	7.8
30°-40°	814.2	9.5
40°-50°	716.7	8.4
50°-60°	443.5	5.2
60°-70°	240.4	2.8
70°-80°	137.0	1.6
80°-90°	46.9	0.5
90°-100°	114.5	1.3
100°-110°	815.7	9.5
110°-120°	1107.4	12.9
120°-130°	901.3	10.5
130°-140°	724.9	8.5
140°-150°	571.5	6.7
150°-160°	417.9	4.9
160°-170°	259.6	3.0
170°-180°	88.5	1.0
0°-30°	1175.0	13.7
0°-40°	1989.2	23.2
0°-60°	3149.3	36.7
0°-90°	3573.7	41.7
90°-120°	2037.7	23.8
90°-150°	4235.4	49.4
90°-180°	5001.0	58.3
0°-180°	8575.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	997	997	997	997	997	
5°	984	1016	1055	1101	1130	93
15°	908	1046	1475	1744	1819	254
25°	768	1051	1724	1775	1811	353
35°	606	974	1594	1572	1564	380
45°	468	801	1292	1095	626	363
55°	358	559	664	384	346	321
65°	251	315	227	194	192	249
75°	148	130	126	124	122	154
85°	32	44	45	40	38	39
90°	0	6	12	18	18	3
95°	47	87	47	53	64	52
105°	182	279	1060	1354	896	191
115°	322	391	914	1899	2219	320
125°	463	526	861	1505	1780	411
135°	574	637	867	1240	1423	441
145°	679	736	872	1080	1195	427
155°	796	825	890	979	1025	366
165°	884	896	914	937	954	248
175°	931	937	931	925	919	88
180°	931	931	931	931	931	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	996.6	996.6	996.6	996.6	996.6
2.5°	993.4	1004.5	1009.6	1019.4	1024.2
5°	984.5	1016.2	1055.4	1100.6	1130.3
7.5°	968.7	1025.3	1149.4	1292.2	1353.2
10°	954.1	1031.3	1233.6	1440.1	1523.3
12.5°	937.9	1037.3	1332.5	1582.8	1667.5
15°	907.5	1046.2	1474.7	1743.8	1819.1
17.5°	868.2	1051.6	1597.9	1829.1	1877.4
20°	840.7	1052.6	1653.0	1839.8	1859.6
22.5°	814.7	1053.6	1691.8	1813.8	1830.4
25°	767.7	1051.0	1723.9	1775.3	1811.0
27.5°	720.7	1039.2	1708.1	1749.6	1775.3
30°	686.7	1027.4	1685.4	1719.8	1721.8
32.5°	654.3	1007.6	1651.3	1661.4	1658.6
35°	605.7	974.1	1594.2	1571.7	1563.8
37.5°	560.3	929.5	1510.8	1474.7	1472.7
40°	532.8	897.2	1444.3	1410.0	1416.0
42.5°	506.8	860.2	1384.4	1344.1	1232.8
45°	467.9	800.7	1292.4	1095.4	625.9
47.5°	434.3	733.0	1188.3	586.8	538.8
50°	413.2	686.6	1112.1	516.0	490.2
52.5°	392.2	643.3	1013.2	463.9	430.3
55°	358.5	558.6	664.4	384.0	346.4
57.5°	326.5	469.5	405.9	298.5	257.7
60°	303.9	416.7	352.5	240.6	218.8
62.5°	282.8	373.5	300.6	213.4	209.1
65°	251.2	314.6	226.9	194.4	192.4
67.5°	221.6	258.4	173.0	175.0	173.0
70°	200.5	218.4	160.0	162.0	160.0
72.5°	181.1	179.9	147.1	145.8	143.8
75°	147.9	130.0	125.6	123.5	121.5
77.5°	113.0	96.0	101.3	99.2	97.2
80°	87.1	81.2	85.1	83.0	81.0
82.5°	64.4	66.4	68.9	65.2	63.2
85°	32.4	44.3	44.6	40.5	38.5
87.5°	9.7	20.4	20.2	18.1	16.5
90°	0.0	5.7	11.7	17.6	17.6
92.5°	14.1	19.8	25.8	36.4	41.0
95°	46.8	86.9	46.8	53.0	64.4
97.5°	83.2	166.7	344.3	101.6	87.8
100°	111.3	208.6	691.0	203.4	134.7
102.5°	139.4	241.3	934.6	536.7	294.0
105°	181.5	278.9	1059.9	1354.0	895.9
107.5°	223.7	297.0	1011.9	1970.5	1845.7
110°	251.8	320.5	983.8	2070.6	2225.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	279.9	348.6	955.6	2012.1	2272.0
115°	322.1	390.8	913.5	1898.7	2219.3
117.5°	365.4	433.0	902.9	1775.9	2105.7
120°	398.2	461.2	884.2	1682.5	2026.1
122.5°	421.6	489.2	860.8	1602.3	1918.3
125°	462.6	525.6	860.8	1505.3	1780.1
127.5°	496.6	560.7	862.0	1392.8	1664.2
130°	515.3	584.0	866.6	1317.5	1575.2
132.5°	538.7	607.4	866.6	1283.7	1495.5
135°	573.9	636.8	866.6	1239.7	1422.9
137.5°	603.1	670.7	866.6	1191.1	1348.0
140°	626.6	689.5	866.6	1162.7	1305.8
142.5°	650.0	708.4	871.3	1129.7	1263.7
145°	679.3	736.5	872.5	1080.1	1194.6
147.5°	714.4	764.8	879.5	1044.3	1132.5
150°	737.8	783.6	884.2	1020.6	1095.0
152.5°	761.2	802.5	884.2	1001.5	1062.2
155°	796.4	825.0	890.1	978.9	1024.7
157.5°	824.5	852.0	897.1	964.6	997.8
160°	843.2	866.1	901.8	955.1	983.8
162.5°	857.3	880.2	906.5	950.2	969.7
165°	884.2	895.7	913.5	937.3	954.5
167.5°	899.4	909.7	919.3	931.3	941.6
170°	913.5	919.2	919.3	931.2	936.9
172.5°	918.2	928.5	924.0	926.5	932.2
175°	931.1	936.8	931.1	925.1	919.3
177.5°	931.1	935.6	931.1	931.0	926.4
180°	931.1	931.1	931.1	931.1	931.1

(END OF REPORT)