

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: P621526

Luminaire Tested: VLT-F-100U-125D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621526  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: VLT-F-100U-125D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
FROSTED LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

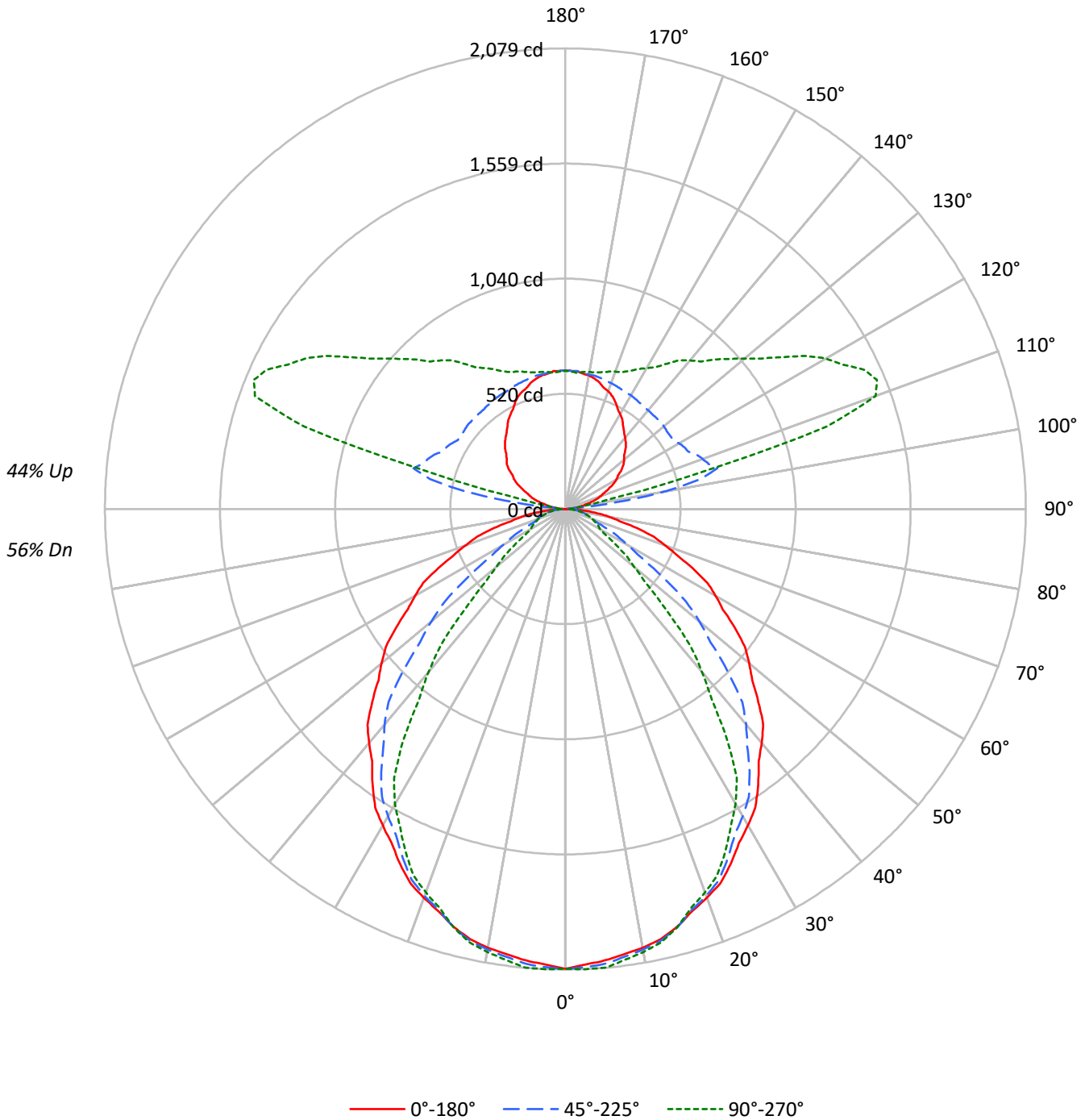
Lumens per Lamp: N/A  
Luminaire Lumens: 7586.0 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 67.7  
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	109	109	109	109	101	101	101	101	87	87	87	73	73	73	61	61	61	56		
1	100	96	92	89	93	89	86	83	77	75	73	66	64	63	56	54	53	49		
2	92	85	79	74	85	79	74	70	69	65	62	59	56	54	50	48	46	42		
3	84	75	68	63	78	70	64	59	61	57	53	53	49	46	45	42	40	37		
4	77	67	59	54	72	63	56	51	55	50	46	48	44	40	41	38	35	32		
5	71	60	52	47	66	56	50	44	50	44	40	43	39	36	37	34	31	28		
6	66	54	46	41	61	51	44	39	45	39	35	39	35	32	34	31	28	25		
7	61	49	42	36	57	46	39	35	41	35	31	36	32	28	31	28	25	23		
8	57	45	37	32	53	42	36	31	38	32	28	33	29	25	29	25	23	21		
9	53	41	34	29	50	39	32	28	35	29	25	30	26	23	27	23	21	19		
10	50	38	31	26	46	36	29	25	32	27	23	28	24	21	25	21	19	17		

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

	0°	45°	90°
0°	14896	14896	14896
5°	14737	14845	14969
10°	14657	14720	14798
15°	14498	14513	14513
20°	14263	14198	14067
25°	13991	13753	13516
30°	13665	13273	12741
35°	13301	12699	11177
40°	12917	11892	8999
45°	12514	10533	6528
50°	12089	8810	4525
55°	11670	6707	3380
60°	11233	4647	2555
65°	10741	3313	2622
70°	10033	2790	2700
75°	9274	2853	2734
80°	8062	3013	2835
85°	6529	3351	2824

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12514 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.6	2.6
10°-20°	550.1	7.3
20°-30°	800.1	10.5
30°-40°	885.2	11.7
40°-50°	760.0	10.0
50°-60°	526.2	6.9
60°-70°	313.6	4.1
70°-80°	154.5	2.0
80°-90°	49.1	0.6
90°-100°	76.7	1.0
100°-110°	546.7	7.2
110°-120°	742.1	9.8
120°-130°	604.0	8.0
130°-140°	485.8	6.4
140°-150°	383.0	5.0
150°-160°	280.1	3.7
160°-170°	173.9	2.3
170°-180°	59.3	0.8
0°-30°	1545.8	20.4
0°-40°	2431.0	32.0
0°-60°	3717.1	49.0
0°-90°	4234.3	55.8
90°-120°	1365.5	18.0
90°-150°	2838.4	37.4
90°-180°	3352.0	44.2
0°-180°	7586.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2076	2076	2076	2076	2076	
5°	2046	2077	2061	2059	2078	194
15°	1952	1977	1954	1943	1954	549
25°	1767	1780	1737	1707	1707	813
35°	1518	1514	1450	1333	1276	949
45°	1233	1212	1038	750	643	951
55°	933	893	536	308	270	834
65°	633	509	195	156	154	626
75°	334	146	103	101	99	353
85°	79	40	41	36	34	92
90°	0	4	8	12	12	5
95°	31	58	31	36	43	35
105°	122	187	710	907	600	128
115°	216	262	612	1272	1487	214
125°	310	352	577	1009	1193	275
135°	385	427	581	831	954	296
145°	455	494	585	724	800	286
155°	534	553	596	656	687	245
165°	593	600	612	628	640	166
175°	624	628	624	620	616	59
180°	624	624	624	624	624	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2075.8	2075.8	2075.8	2075.8	2075.8
2.5°	2058.7	2082.2	2070.7	2070.9	2079.3
5°	2045.8	2077.3	2060.8	2059.1	2078.0
7.5°	2026.9	2055.9	2038.9	2036.7	2053.1
10°	2011.5	2038.8	2020.1	2016.1	2030.8
12.5°	1989.2	2016.5	1996.1	1988.7	2003.3
15°	1951.5	1976.6	1953.6	1943.1	1953.6
17.5°	1903.8	1924.8	1898.7	1882.1	1888.4
20°	1867.8	1888.8	1859.2	1835.8	1842.1
22.5°	1828.4	1846.0	1812.9	1786.0	1790.6
25°	1767.0	1779.6	1737.0	1707.0	1707.0
27.5°	1698.8	1706.4	1656.8	1625.3	1616.5
30°	1649.1	1653.3	1601.9	1564.8	1537.6
32.5°	1597.6	1600.1	1541.9	1482.1	1439.8
35°	1518.3	1514.1	1449.6	1332.6	1275.9
37.5°	1433.8	1424.6	1348.4	1170.2	1085.9
40°	1378.9	1366.3	1269.5	1055.1	960.7
42.5°	1322.3	1304.7	1182.0	936.5	832.0
45°	1233.1	1212.1	1037.9	750.3	643.3
47.5°	1144.7	1117.0	890.4	581.2	489.4
50°	1082.9	1053.6	789.2	478.7	405.3
52.5°	1021.2	991.8	686.2	401.8	343.5
55°	932.8	893.0	536.1	307.9	270.2
57.5°	842.8	785.7	399.3	239.9	210.6
60°	782.7	707.2	323.8	199.0	178.0
62.5°	724.4	628.8	265.5	173.6	169.4
65°	632.6	508.9	195.1	156.5	154.4
67.5°	545.1	388.3	145.0	141.1	139.0
70°	478.2	306.3	133.0	130.8	128.7
72.5°	418.2	234.5	120.9	118.8	116.7
75°	334.5	145.8	102.9	100.7	98.6
77.5°	250.0	91.9	84.9	82.7	80.6
80°	195.1	75.6	72.9	70.7	68.6
82.5°	147.1	61.1	59.2	57.0	54.9
85°	79.3	39.5	40.7	36.4	34.3
87.5°	27.4	19.8	20.4	17.8	16.1
90°	0.0	3.8	7.8	11.8	11.8
92.5°	9.4	13.3	17.3	24.4	27.5
95°	31.4	58.3	31.4	35.5	43.2
97.5°	55.7	111.7	230.7	68.1	58.9
100°	74.6	139.8	463.1	136.3	90.3
102.5°	93.4	161.7	626.3	359.7	197.0
105°	121.7	186.9	710.3	907.4	600.4
107.5°	149.9	199.0	678.1	1320.6	1236.9
110°	168.7	214.8	659.3	1387.6	1491.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	187.6	233.6	640.4	1348.4	1522.6
115°	215.8	261.9	612.2	1272.4	1487.3
117.5°	244.9	290.1	605.1	1190.1	1411.2
120°	266.8	309.1	592.6	1127.6	1357.8
122.5°	282.5	327.8	576.9	1073.8	1285.6
125°	310.0	352.2	576.9	1008.8	1193.0
127.5°	332.8	375.7	577.6	933.4	1115.3
130°	345.3	391.4	580.8	883.0	1055.6
132.5°	361.0	407.1	580.8	860.3	1002.2
135°	384.6	426.8	580.8	830.8	953.6
137.5°	404.2	449.5	580.8	798.2	903.4
140°	419.9	462.1	580.8	779.2	875.1
142.5°	435.6	474.7	583.9	757.1	846.8
145°	455.2	493.6	584.7	723.8	800.5
147.5°	478.8	512.5	589.4	699.9	758.9
150°	494.5	525.1	592.6	683.9	733.8
152.5°	510.1	537.8	592.6	671.2	711.9
155°	533.7	552.9	596.5	656.0	686.7
157.5°	552.5	570.9	601.2	646.4	668.7
160°	565.1	580.4	604.3	640.1	659.3
162.5°	574.5	589.9	607.5	636.8	649.9
165°	592.6	600.2	612.2	628.1	639.6
167.5°	602.8	609.7	616.1	624.1	631.0
170°	612.2	616.0	616.1	624.0	627.9
172.5°	615.3	622.2	619.2	620.9	624.7
175°	624.0	627.8	624.0	619.9	616.1
177.5°	624.0	627.0	624.0	623.9	620.8
180°	624.0	624.0	624.0	624.0	624.0

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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.54	18.40	18.45	19.32	20.51	9.77	10.63	10.69	11.56	12.75
	3H	19.03	19.80	19.96	20.73	21.95	11.12	11.89	12.05	12.83	14.04
	4H	19.54	20.27	20.49	21.21	22.43	11.78	12.50	12.72	13.44	14.67
	6H	19.94	20.61	20.89	21.55	22.79	12.37	13.03	13.32	13.98	15.22
	8H	20.07	20.71	21.03	21.67	22.90	12.59	13.22	13.55	14.19	15.42
	12H	20.15	20.75	21.12	21.71	22.97	12.76	13.36	13.72	14.32	15.57
4H	2H	17.37	18.09	18.31	19.03	20.26	10.39	11.11	11.34	12.05	13.28
	3H	19.00	19.60	19.96	20.58	21.81	11.94	12.54	12.90	13.51	14.75
	4H	19.59	20.14	20.56	21.11	22.37	12.73	13.28	13.70	14.25	15.51
	6H	20.09	20.56	21.07	21.55	22.81	13.47	13.94	14.45	14.93	16.19
	8H	20.27	20.71	21.25	21.69	22.97	13.76	14.20	14.75	15.19	16.46
	12H	20.40	20.80	21.40	21.80	23.08	13.98	14.38	14.98	15.38	16.66
8H	4H	19.51	19.95	20.49	20.93	22.21	13.19	13.63	14.17	14.61	15.89
	6H	20.04	20.41	21.05	21.43	22.71	14.07	14.43	15.08	15.46	16.73
	8H	20.28	20.60	21.29	21.61	22.90	14.46	14.78	15.48	15.80	17.09
	12H	20.47	20.75	21.48	21.76	23.09	14.78	15.07	15.80	16.07	17.41
12H	4H	19.46	19.85	20.46	20.85	22.14	13.24	13.63	14.24	14.63	15.91
	6H	20.02	20.34	21.03	21.35	22.64	14.18	14.50	15.20	15.52	16.81
	8H	20.26	20.54	21.28	21.55	22.89	14.63	14.91	15.64	15.91	17.25