

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: P621502

Luminaire Tested: VLT-F-0U-125D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621502  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: VLT-F-0U-125D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
FROSTED LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

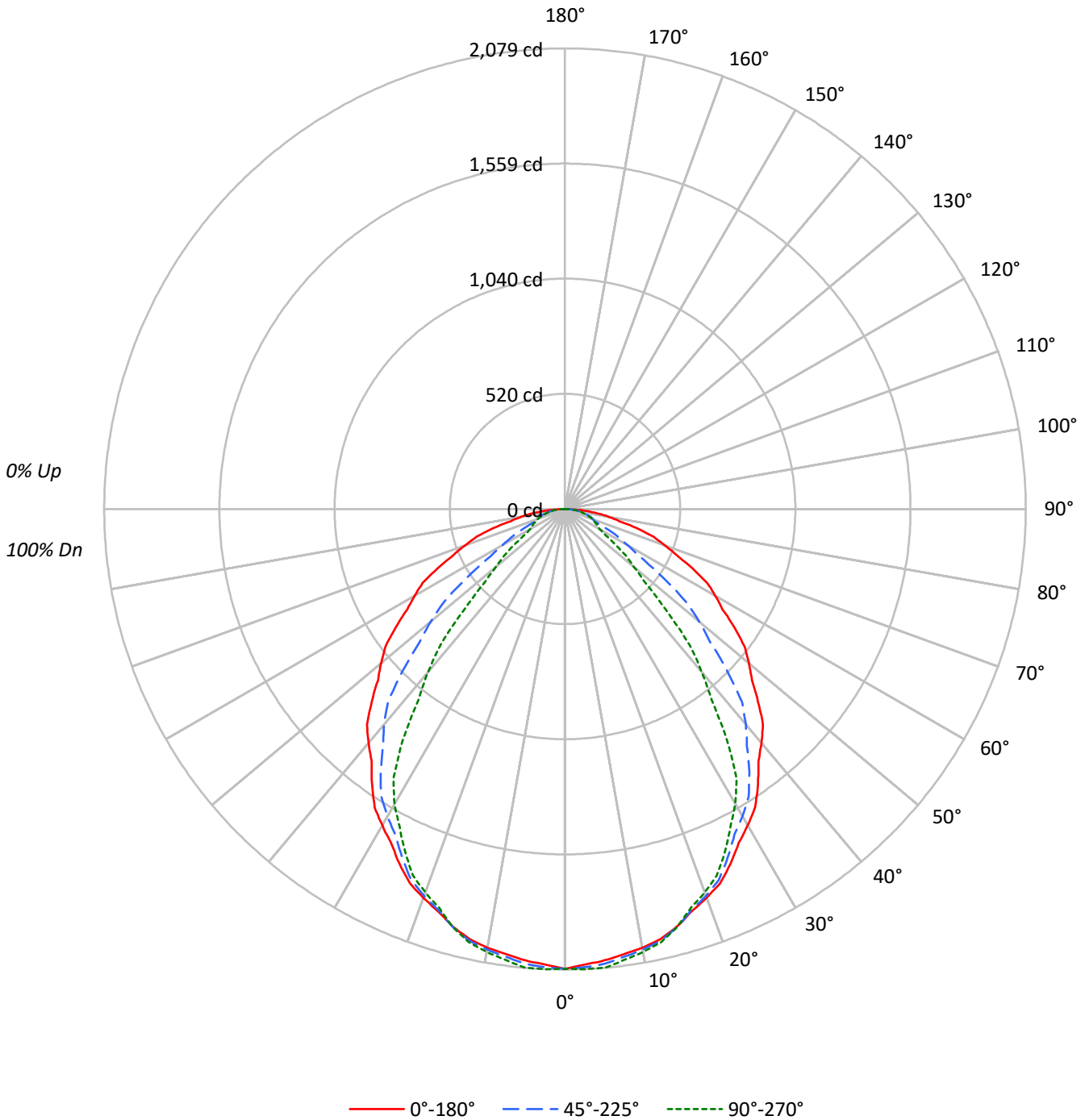
Lumens per Lamp: N/A  
Luminaire Lumens: 4232.9 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.7  
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					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	85	77	72	92	83	76	71	80	74	70	78	73	69	75	71	67	65								
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57								
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51								
6	75	63	54	49	73	62	54	48	60	53	48	58	52	48	57	51	47	45								
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	43	41								
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	39	37								
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33								
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31								

**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	4.6
10°-20°	550.1	13.0
20°-30°	800.1	18.9
30°-40°	885.2	20.9
40°-50°	760.0	18.0
50°-60°	526.2	12.4
60°-70°	313.6	7.4
70°-80°	154.5	3.6
80°-90°	47.7	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1545.8	36.5
0°-40°	2431.0	57.4
0°-60°	3717.1	87.8
0°-90°	4232.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4232.9	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	96
90°	0	0	0	0	0	



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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	19.1	18.9	15.4	13.7
90°	0.0	0.0	0.0	0.0	0.0



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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	20.95	22.42	21.32	22.73	23.05	13.18	14.66	13.55	14.97	15.28
	3H	22.49	23.80	22.87	24.13	24.49	14.58	15.90	14.96	16.23	16.59
	4H	23.03	24.26	23.43	24.61	24.99	15.26	16.49	15.66	16.84	17.22
	6H	23.45	24.59	23.87	24.96	25.35	15.88	17.01	16.29	17.38	17.77
	8H	23.60	24.68	24.03	25.07	25.47	16.12	17.20	16.55	17.59	17.99
	12H	23.70	24.73	24.13	25.11	25.54	16.30	17.34	16.74	17.72	18.15
4H	2H	20.85	22.08	21.25	22.43	22.81	13.87	15.10	14.27	15.45	15.83
	3H	22.54	23.56	22.95	23.96	24.36	15.48	16.49	15.89	16.89	17.30
	4H	23.15	24.06	23.58	24.48	24.92	16.29	17.21	16.73	17.62	18.06
	6H	23.67	24.47	24.13	24.91	25.37	17.06	17.85	17.52	18.30	18.76
	8H	23.87	24.61	24.33	25.06	25.52	17.36	18.10	17.83	18.55	19.02
	12H	24.03	24.69	24.51	25.17	25.64	17.60	18.27	18.09	18.74	19.22
8H	4H	23.11	23.85	23.57	24.29	24.76	16.79	17.53	17.25	17.97	18.44
	6H	23.66	24.27	24.16	24.76	25.24	17.69	18.30	18.18	18.79	19.27
	8H	23.89	24.44	24.41	24.96	25.44	18.08	18.63	18.60	19.14	19.63
	12H	24.11	24.59	24.62	25.09	25.65	18.42	18.91	18.93	19.40	19.97
12H	4H	23.08	23.74	23.57	24.22	24.70	16.86	17.52	17.34	18.00	18.47
	6H	23.63	24.18	24.15	24.69	25.18	17.80	18.35	18.32	18.86	19.35
	8H	23.90	24.39	24.41	24.88	25.45	18.27	18.75	18.78	19.25	19.81