

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: P621537

Luminaire Tested: VLT-F-125U-075D-840-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621537
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-125U-075D-840-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

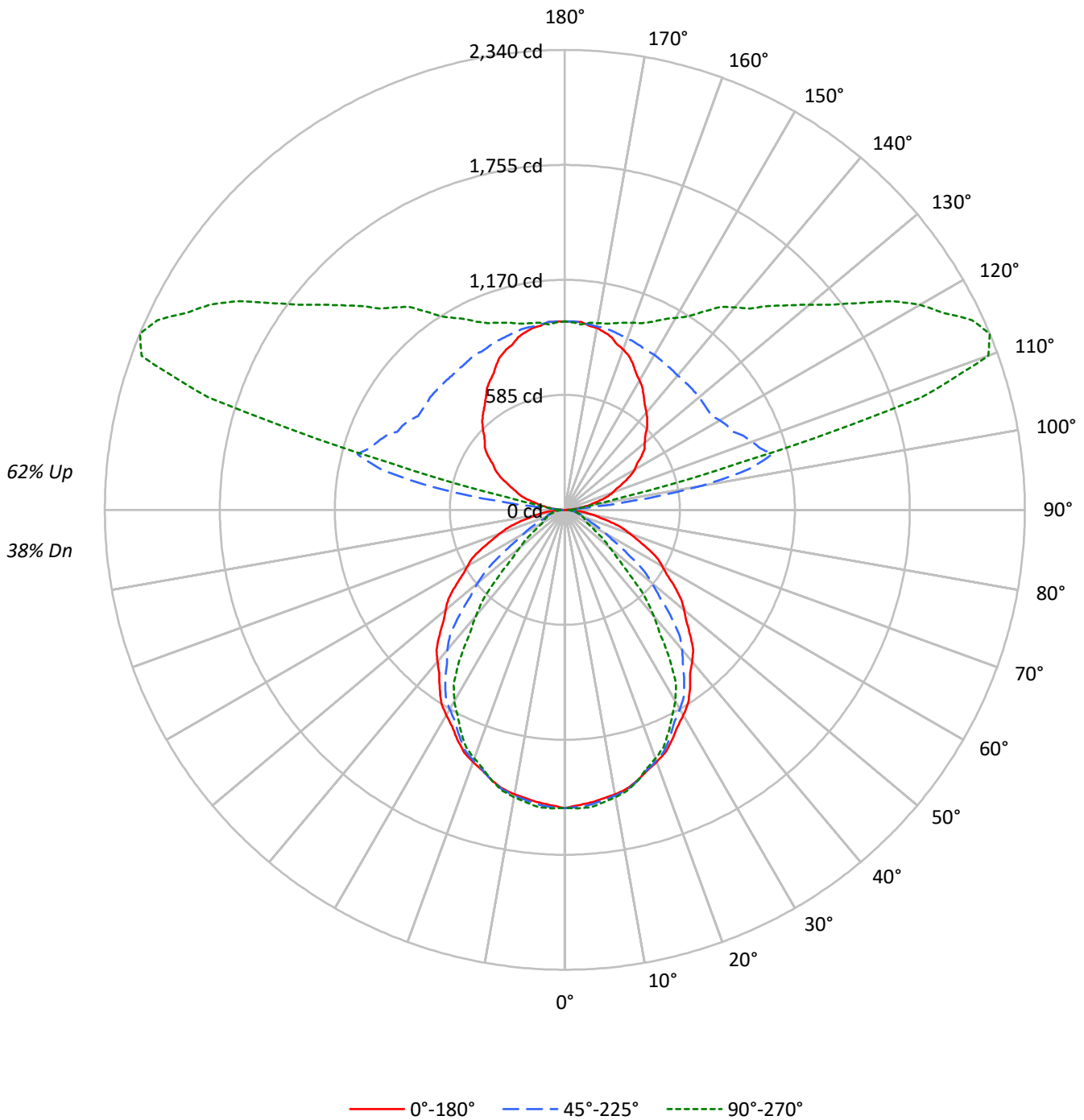
Lumens per Lamp: N/A
Luminaire Lumens: 8246.9 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 59.8
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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38
1	96	91	88	85	87	83	80	77	68	66	64	53	52	51	40	39	39	33
2	87	80	75	70	79	73	68	64	60	57	54	48	45	43	36	35	33	28
3	80	71	64	59	72	65	59	54	53	49	46	42	40	37	32	31	29	25
4	73	63	56	50	67	58	51	46	48	43	39	38	35	32	29	27	25	22
5	68	57	49	43	61	52	45	40	43	38	34	34	31	28	27	24	23	19
6	62	51	43	38	56	47	40	35	39	34	30	31	28	25	24	22	20	17
7	58	46	38	33	52	42	36	31	35	30	27	29	25	22	22	20	18	15
8	54	42	34	29	49	38	32	27	32	27	24	26	23	20	21	18	16	14
9	50	38	31	26	45	35	29	25	29	25	21	24	21	18	19	17	15	13
10	47	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10889	10889	10889
5°	10773	10852	10942
10°	10714	10760	10817
15°	10598	10609	10609
20°	10427	10379	10283
25°	10227	10054	9880
30°	9989	9703	9314
35°	9723	9283	8171
40°	9442	8693	6579
45°	9148	7700	4773
50°	8837	6440	3308
55°	8531	4903	2471
60°	8212	3397	1867
65°	7851	2423	1917
70°	7335	2039	1974
75°	6779	2085	1999
80°	5897	2203	2074
85°	4775	2454	2067

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9148 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	1.7
10°-20°	402.1	4.9
20°-30°	584.9	7.1
30°-40°	647.1	7.8
40°-50°	555.6	6.7
50°-60°	384.7	4.7
60°-70°	229.2	2.8
70°-80°	112.9	1.4
80°-90°	37.0	0.4
90°-100°	117.9	1.4
100°-110°	840.0	10.2
110°-120°	1140.5	13.8
120°-130°	928.2	11.3
130°-140°	746.5	9.1
140°-150°	588.6	7.1
150°-160°	430.4	5.2
160°-170°	267.3	3.2
170°-180°	91.2	1.1
0°-30°	1130.0	13.7
0°-40°	1777.1	21.5
0°-60°	2717.3	32.9
0°-90°	3096.5	37.5
90°-120°	2098.4	25.4
90°-150°	4361.7	52.9
90°-180°	5150.0	62.4
0°-180°	8246.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1496	1518	1506	1505	1519	142
15°	1426	1445	1428	1420	1428	402
25°	1292	1301	1270	1248	1248	594
35°	1110	1107	1060	974	933	694
45°	901	886	759	548	470	695
55°	682	653	392	225	198	609
65°	462	372	143	114	113	458
75°	244	107	75	74	72	258
85°	58	29	30	27	25	67
90°	0	6	12	18	18	5
95°	48	90	48	54	66	54
105°	187	287	1092	1394	923	197
115°	332	402	941	1955	2286	329
125°	476	541	886	1550	1833	423
135°	591	656	892	1277	1465	455
145°	700	758	898	1112	1230	439
155°	820	850	917	1008	1055	376
165°	911	922	941	965	983	256
175°	959	965	959	953	947	91
180°	959	959	959	959	959	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1517.4	1517.4	1517.4	1517.4	1517.4
2.5°	1504.9	1522.1	1513.7	1513.8	1520.0
5°	1495.5	1518.5	1506.5	1505.2	1519.0
7.5°	1481.7	1502.9	1490.5	1488.9	1500.8
10°	1470.4	1490.3	1476.7	1473.8	1484.5
12.5°	1454.1	1474.0	1459.1	1453.7	1464.5
15°	1426.5	1444.9	1428.1	1420.4	1428.1
17.5°	1391.7	1407.0	1388.0	1375.8	1380.4
20°	1365.4	1380.7	1359.1	1342.0	1346.6
22.5°	1336.5	1349.4	1325.3	1305.6	1309.0
25°	1291.7	1300.9	1269.8	1247.8	1247.8
27.5°	1241.9	1247.4	1211.1	1188.1	1181.7
30°	1205.5	1208.6	1171.0	1143.9	1124.0
32.5°	1167.9	1169.7	1127.1	1083.5	1052.5
35°	1109.9	1106.8	1059.7	974.1	932.7
37.5°	1048.1	1041.4	985.7	855.5	793.8
40°	1008.0	998.8	928.0	771.3	702.3
42.5°	966.6	953.7	864.1	684.6	608.2
45°	901.4	886.0	758.7	548.5	470.3
47.5°	836.8	816.6	650.9	424.9	357.7
50°	791.6	770.2	576.9	349.9	296.3
52.5°	746.5	725.0	501.6	293.7	251.1
55°	681.9	652.8	391.9	225.1	197.5
57.5°	616.1	574.4	291.9	175.4	153.9
60°	572.2	517.0	236.7	145.4	130.1
62.5°	529.5	459.6	194.1	126.9	123.8
65°	462.4	372.0	142.7	114.4	112.9
67.5°	398.5	283.8	106.0	103.1	101.6
70°	349.6	223.9	97.2	95.6	94.1
72.5°	305.7	171.4	88.4	86.8	85.3
75°	244.5	106.6	75.2	73.6	72.1
77.5°	182.8	67.2	62.1	60.5	58.9
80°	142.7	55.3	53.3	51.7	50.2
82.5°	107.5	44.7	43.3	41.7	40.1
85°	58.0	28.9	29.8	26.6	25.1
87.5°	20.1	15.1	16.2	14.9	13.7
90°	0.0	5.9	12.1	18.1	18.1
92.5°	14.5	20.4	26.5	37.5	42.2
95°	48.2	89.5	48.2	54.5	66.3
97.5°	85.6	171.7	354.6	104.6	90.5
100°	114.6	214.8	711.6	209.5	138.7
102.5°	143.5	248.5	962.4	552.7	302.7
105°	186.9	287.2	1091.5	1394.3	922.6
107.5°	230.4	305.8	1042.0	2029.3	1900.7
110°	259.3	330.1	1013.1	2132.3	2291.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	359.0	984.1	2072.1	2339.7
115°	331.7	402.4	940.7	1955.3	2285.5
117.5°	376.3	445.9	929.9	1828.9	2168.5
120°	410.1	474.9	910.6	1732.7	2086.5
122.5°	434.2	503.8	886.4	1650.0	1975.5
125°	476.4	541.2	886.4	1550.2	1833.2
127.5°	511.4	577.4	887.7	1434.3	1713.8
130°	530.7	601.4	892.5	1356.8	1622.1
132.5°	554.8	625.5	892.5	1322.0	1540.1
135°	591.0	655.8	892.5	1276.7	1465.4
137.5°	621.1	690.7	892.5	1226.6	1388.2
140°	645.2	710.1	892.5	1197.3	1344.7
142.5°	669.4	729.5	897.3	1163.4	1301.3
145°	699.5	758.5	898.5	1112.2	1230.2
147.5°	735.7	787.6	905.7	1075.5	1166.3
150°	759.8	807.0	910.6	1051.0	1127.7
152.5°	783.9	826.4	910.6	1031.4	1093.9
155°	820.1	849.6	916.6	1008.1	1055.3
157.5°	849.1	877.4	923.8	993.4	1027.6
160°	868.4	891.9	928.7	983.6	1013.1
162.5°	882.8	906.4	933.5	978.6	998.6
165°	910.6	922.4	940.7	965.2	982.9
167.5°	926.2	936.9	946.8	959.1	969.7
170°	940.7	946.6	946.8	958.9	964.8
172.5°	945.5	956.2	951.6	954.1	960.0
175°	958.8	964.7	958.8	952.6	946.8
177.5°	958.8	963.5	958.8	958.7	954.0
180°	958.8	958.8	958.8	958.8	958.8



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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	14.62	15.35	15.69	16.41	17.85	6.86	7.58	7.92	8.65	10.09
	3H	16.11	16.76	17.18	17.83	19.29	8.20	8.85	9.28	9.92	11.38
	4H	16.62	17.23	17.70	18.30	19.77	8.85	9.46	9.94	10.54	12.00
	6H	17.01	17.57	18.10	18.65	20.12	9.43	10.00	10.53	11.07	12.55
	8H	17.13	17.67	18.23	18.76	20.23	9.65	10.19	10.75	11.28	12.75
	12H	17.21	17.72	18.31	18.80	20.30	9.82	10.32	10.92	11.41	12.91
4H	2H	14.44	15.05	15.53	16.12	17.59	7.46	8.07	8.55	9.15	10.61
	3H	16.06	16.57	17.16	17.67	19.15	9.00	9.51	10.10	10.61	12.09
	4H	16.65	17.11	17.75	18.20	19.71	9.79	10.26	10.89	11.35	12.85
	6H	17.13	17.53	18.25	18.65	20.14	10.52	10.92	11.63	12.03	13.53
	8H	17.32	17.69	18.43	18.80	20.31	10.81	11.19	11.92	12.29	13.80
	12H	17.44	17.78	18.57	18.90	20.41	11.02	11.36	12.15	12.48	13.99
8H	4H	16.56	16.93	17.67	18.03	19.54	10.23	10.61	11.34	11.71	13.22
	6H	17.09	17.39	18.22	18.54	20.05	11.11	11.42	12.24	12.57	14.07
	8H	17.32	17.59	18.46	18.72	20.25	11.51	11.78	12.65	12.90	14.43
	12H	17.50	17.74	18.65	18.87	20.43	11.82	12.06	12.96	13.18	14.75
12H	4H	16.50	16.84	17.63	17.96	19.47	10.28	10.61	11.40	11.73	13.25
	6H	17.06	17.33	18.20	18.46	19.98	11.23	11.50	12.37	12.62	14.15
	8H	17.30	17.53	18.44	18.66	20.22	11.66	11.90	12.81	13.03	14.59