

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: P621549

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621549
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-125D-840-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 1250 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: 10322.4 lumens
Efficiency: N/A
Efficacy: 134.2 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

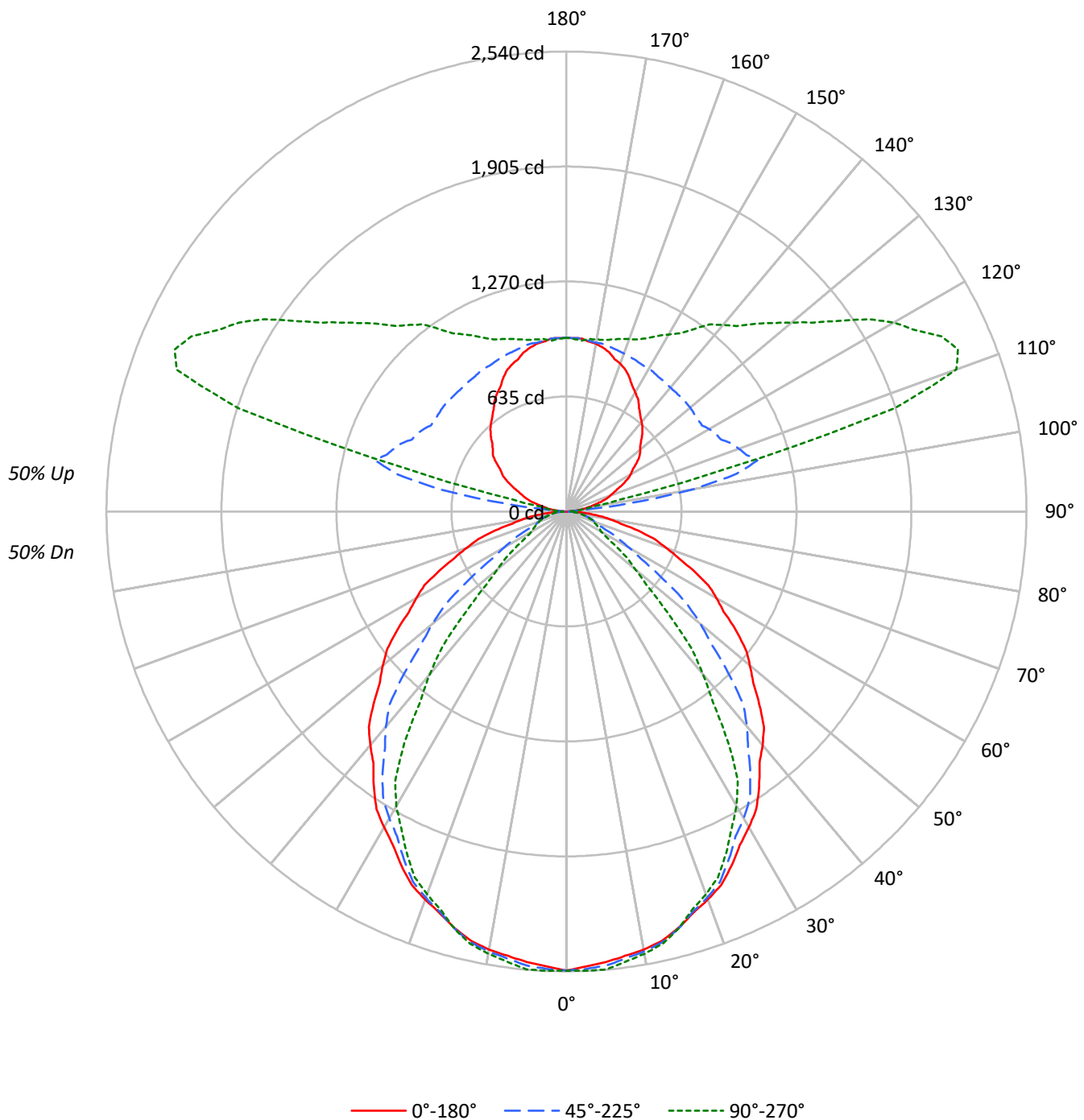
Input Watts (W): 76.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P621549

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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	99	94	91	88	91	87	84	81	74	72	70	62	60	59	51	50	49
2	90	83	78	73	83	77	72	68	66	62	59	55	53	50	46	44	42
3	83	74	67	61	76	69	63	58	59	54	50	50	46	44	41	39	37
4	76	66	58	53	70	61	55	50	53	48	44	45	41	38	37	34	32
5	70	59	51	46	65	55	48	43	47	42	38	40	36	33	34	31	29
6	65	53	45	40	60	50	43	38	43	38	34	37	33	30	31	28	26
7	60	48	41	35	55	45	38	33	39	34	30	34	29	26	28	25	23
8	56	44	36	31	52	41	34	30	36	31	27	31	27	24	26	23	21
9	52	40	33	28	48	38	31	27	33	28	24	29	24	21	24	21	19
10	49	37	30	25	45	35	28	24	30	25	22	26	22	20	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18193	18193	18193
5°	17998	18130	18281
10°	17901	17978	18073
15°	17706	17726	17726
20°	17420	17340	17181
25°	17087	16798	16507
30°	16689	16212	15560
35°	16244	15510	13652
40°	15776	14524	10991
45°	15283	12864	7974
50°	14765	10760	5526
55°	14254	8192	4129
60°	13720	5676	3120
65°	13119	4046	3202
70°	12255	3407	3296
75°	11329	3485	3341
80°	9848	3678	3463
85°	7978	4100	3450

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15283 cd/sqm



TEST NUMBER: P621549

CATALOG NUMBER: VLT-F-125U-125D-840-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.9	2.3
10°-20°	671.8	6.5
20°-30°	977.2	9.5
30°-40°	1081.1	10.5
40°-50°	928.2	9.0
50°-60°	642.7	6.2
60°-70°	382.9	3.7
70°-80°	188.7	1.8
80°-90°	60.4	0.6
90°-100°	117.9	1.1
100°-110°	840.0	8.1
110°-120°	1140.5	11.0
120°-130°	928.2	9.0
130°-140°	746.5	7.2
140°-150°	588.6	5.7
150°-160°	430.4	4.2
160°-170°	267.3	2.6
170°-180°	91.2	0.9
0°-30°	1887.9	18.3
0°-40°	2969.0	28.8
0°-60°	4539.9	44.0
0°-90°	5171.9	50.1
90°-120°	2098.4	20.3
90°-150°	4361.7	42.3
90°-180°	5150.0	49.9
0°-180°	10322.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2535	2535	2535	2535	2535	
5°	2499	2537	2517	2515	2538	237
15°	2383	2414	2386	2373	2386	671
25°	2158	2174	2122	2085	2085	993
35°	1854	1849	1770	1628	1558	1159
45°	1506	1480	1268	916	786	1162
55°	1139	1091	655	376	330	1018
65°	773	622	238	191	189	765
75°	409	178	126	123	120	431
85°	97	48	50	44	42	112
90°	0	6	12	18	18	7
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	

TEST NUMBER: P621549

CATALOG NUMBER: VLT-F-125U-125D-840-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2535.3	2535.3	2535.3	2535.3	2535.3
2.5°	2514.3	2543.0	2529.0	2529.2	2539.5
5°	2498.6	2537.0	2516.9	2514.8	2537.9
7.5°	2475.6	2510.9	2490.2	2487.5	2507.5
10°	2456.7	2490.0	2467.2	2462.3	2480.3
12.5°	2429.5	2462.7	2437.8	2428.8	2446.7
15°	2383.4	2414.1	2386.0	2373.2	2386.0
17.5°	2325.2	2350.8	2318.9	2298.7	2306.4
20°	2281.2	2306.8	2270.7	2242.1	2249.8
22.5°	2233.0	2254.5	2214.2	2181.3	2186.9
25°	2158.1	2173.5	2121.5	2084.8	2084.8
27.5°	2074.8	2084.1	2023.5	1985.0	1974.3
30°	2014.1	2019.2	1956.5	1911.2	1877.9
32.5°	1951.2	1954.3	1883.1	1810.2	1758.4
35°	1854.3	1849.2	1770.5	1627.5	1558.4
37.5°	1751.1	1739.8	1646.9	1429.2	1326.3
40°	1684.1	1668.7	1550.5	1288.6	1173.3
42.5°	1614.9	1593.4	1443.6	1143.7	1016.2
45°	1506.0	1480.4	1267.6	916.3	785.7
47.5°	1398.1	1364.3	1087.4	709.8	597.7
50°	1322.6	1286.8	963.8	584.6	495.0
52.5°	1247.2	1211.4	838.1	490.8	419.6
55°	1139.3	1090.6	654.8	376.1	330.0
57.5°	1029.3	959.6	487.7	293.0	257.2
60°	956.0	863.8	395.5	243.0	217.4
62.5°	884.7	767.9	324.2	212.0	206.9
65°	772.6	621.5	238.3	191.1	188.6
67.5°	665.8	474.2	177.0	172.3	169.7
70°	584.1	374.1	162.4	159.7	157.1
72.5°	510.7	286.4	147.7	145.0	142.5
75°	408.6	178.1	125.7	123.0	120.5
77.5°	305.4	112.3	103.7	101.0	98.5
80°	238.3	92.4	89.0	86.4	83.8
82.5°	179.7	74.7	72.3	69.6	67.0
85°	96.9	48.2	49.8	44.5	41.9
87.5°	33.5	24.5	25.5	22.4	20.4
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



TEST NUMBER: P621549

CATALOG NUMBER: VLT-F-125U-125D-840-UNV-STD-W-4

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	17.71	18.52	18.68	19.50	20.77	9.94	10.76	10.91	11.73	13.01
	3H	19.20	19.93	20.18	20.91	22.21	11.29	12.02	12.27	13.00	14.30
	4H	19.71	20.40	20.70	21.38	22.69	11.95	12.63	12.94	13.62	14.92
	6H	20.11	20.74	21.11	21.73	23.05	12.53	13.16	13.53	14.16	15.47
	8H	20.24	20.84	21.25	21.85	23.16	12.76	13.36	13.76	14.36	15.68
	12H	20.32	20.89	21.33	21.89	23.23	12.92	13.49	13.93	14.49	15.83
4H	2H	17.53	18.22	18.53	19.21	20.51	10.56	11.24	11.55	12.23	13.53
	3H	19.17	19.74	20.17	20.75	22.07	12.10	12.67	13.11	13.69	15.01
	4H	19.76	20.27	20.77	21.28	22.63	12.90	13.42	13.91	14.42	15.77
	6H	20.25	20.69	21.27	21.72	23.06	13.63	14.08	14.66	15.11	16.45
	8H	20.43	20.85	21.46	21.87	23.23	13.92	14.34	14.95	15.37	16.72
	12H	20.56	20.94	21.60	21.98	23.33	14.14	14.52	15.18	15.56	16.91
8H	4H	19.67	20.09	20.69	21.11	22.46	13.35	13.76	14.37	14.79	16.14
	6H	20.20	20.55	21.25	21.61	22.96	14.23	14.57	15.28	15.64	16.99
	8H	20.44	20.74	21.49	21.79	23.16	14.62	14.93	15.68	15.98	17.35
	12H	20.62	20.89	21.68	21.94	23.35	14.94	15.21	16.00	16.25	17.67
12H	4H	19.62	19.99	20.66	21.03	22.39	13.39	13.77	14.44	14.81	16.17
	6H	20.18	20.48	21.23	21.53	22.90	14.34	14.65	15.40	15.70	17.07
	8H	20.42	20.68	21.47	21.73	23.14	14.78	15.05	15.84	16.10	17.51

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

8 of 8