

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: P621477

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621477
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-075U-125D-840-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

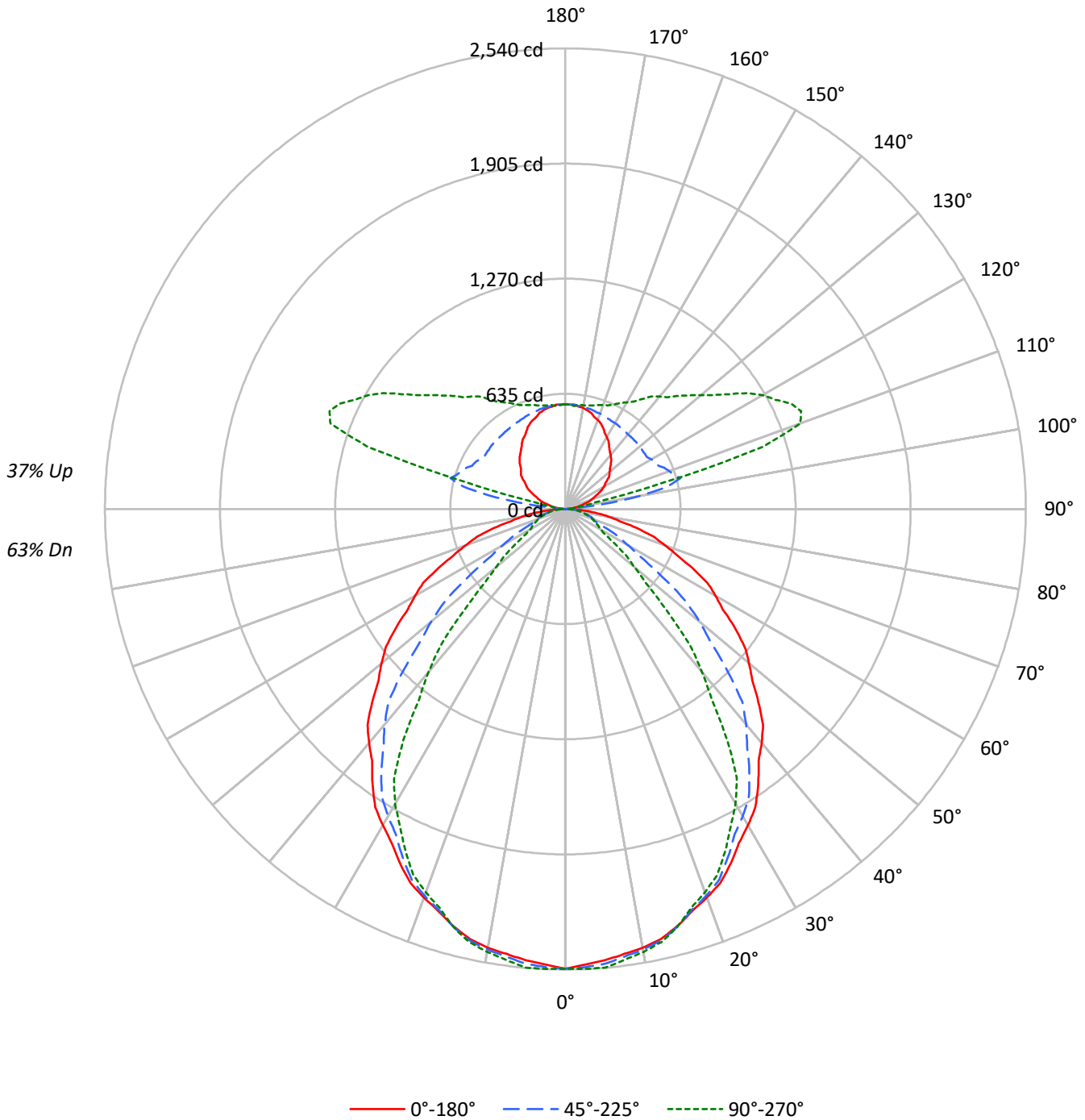
Lumens per Lamp: N/A
Luminaire Lumens: 8270.4 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 59.5
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: P621477
CATALOG NUMBER: VLT-F-075U-125D-840-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621477

CATALOG NUMBER: VLT-F-075U-125D-840-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20				20				20				
RC	80									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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	63				
1	101	97	94	90	95	92	88	86	81	78	76	70	69	67	61	60	59	54				
2	93	86	80	75	87	81	76	72	72	68	64	63	60	58	55	53	51	47				
3	86	77	70	64	80	72	66	61	64	59	55	57	53	50	50	47	44	41				
4	79	68	61	55	74	65	58	53	58	52	48	51	47	43	45	42	39	36				
5	73	61	54	48	68	58	51	46	52	46	42	46	42	38	41	37	35	32				
6	67	56	48	42	63	53	46	40	47	41	37	42	38	34	37	34	31	28				
7	62	50	43	37	59	48	41	36	43	37	33	39	34	30	34	31	28	25				
8	58	46	39	33	55	44	37	32	40	34	30	36	31	27	32	28	25	23				
9	54	42	35	30	51	40	34	29	36	31	27	33	28	25	29	26	23	21				
10	51	39	32	27	48	37	31	26	34	28	24	30	26	23	27	24	21	19				

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: P621477

CATALOG NUMBER: VLT-F-075U-125D-840-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.9	2.9
10°-20°	671.8	8.1
20°-30°	977.2	11.8
30°-40°	1081.1	13.1
40°-50°	928.2	11.2
50°-60°	642.7	7.8
60°-70°	382.9	4.6
70°-80°	188.7	2.3
80°-90°	59.6	0.7
90°-100°	70.9	0.9
100°-110°	505.5	6.1
110°-120°	686.3	8.3
120°-130°	558.6	6.8
130°-140°	449.3	5.4
140°-150°	354.2	4.3
150°-160°	259.0	3.1
160°-170°	160.9	1.9
170°-180°	54.9	0.7
0°-30°	1887.9	22.8
0°-40°	2969.0	35.9
0°-60°	4539.9	54.9
0°-90°	5171.0	62.5
90°-120°	1262.7	15.3
90°-150°	2624.7	31.7
90°-180°	3099.0	37.5
0°-180°	8270.4	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	4	7	11	11	6
95°	29	54	29	33	40	32
105°	112	173	657	839	555	119
115°	200	242	566	1177	1375	198
125°	287	326	533	933	1103	255
135°	356	395	537	768	882	274
145°	421	456	541	669	740	264
155°	494	511	552	607	635	227
165°	548	555	566	581	592	154
175°	577	580	577	573	570	55
180°	577	577	577	577	577	



TEST NUMBER: P621477

CATALOG NUMBER: VLT-F-075U-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	24.0	24.5	21.0	18.9
90°	0.0	3.5	7.3	10.9	10.9
92.5°	8.7	12.3	16.0	22.6	25.4
95°	29.0	53.9	29.0	32.8	39.9
97.5°	51.5	103.3	213.4	62.9	54.4
100°	68.9	129.3	428.2	126.0	83.5
102.5°	86.4	149.5	579.2	332.6	182.2
105°	112.5	172.8	656.8	839.1	555.2
107.5°	138.6	184.0	627.1	1221.2	1143.8
110°	156.0	198.6	609.6	1283.1	1378.9



TEST NUMBER: P621477

CATALOG NUMBER: VLT-F-075U-125D-840-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.5	216.0	592.2	1246.9	1408.0
115°	199.6	242.2	566.1	1176.6	1375.3
117.5°	226.4	268.3	559.6	1100.5	1304.9
120°	246.8	285.8	548.0	1042.7	1255.6
122.5°	261.3	303.1	533.4	992.9	1188.8
125°	286.7	325.7	533.4	932.8	1103.2
127.5°	307.7	347.5	534.2	863.1	1031.3
130°	319.3	361.9	537.1	816.5	976.2
132.5°	333.9	376.4	537.1	795.5	926.8
135°	355.6	394.7	537.1	768.3	881.8
137.5°	373.8	415.6	537.1	738.1	835.4
140°	388.3	427.3	537.1	720.5	809.2
142.5°	402.8	439.0	540.0	700.1	783.1
145°	420.9	456.4	540.7	669.3	740.3
147.5°	442.7	473.9	545.0	647.2	701.8
150°	457.2	485.6	548.0	632.5	678.6
152.5°	471.7	497.3	548.0	620.7	658.3
155°	493.5	511.3	551.6	606.7	635.0
157.5°	510.9	528.0	555.9	597.8	618.3
160°	522.5	536.7	558.8	591.9	609.6
162.5°	531.3	545.5	561.7	588.9	600.9
165°	548.0	555.0	566.1	580.9	591.5
167.5°	557.4	563.8	569.7	577.1	583.5
170°	566.1	569.6	569.7	577.1	580.6
172.5°	569.0	575.4	572.6	574.2	577.7
175°	577.0	580.5	577.0	573.3	569.7
177.5°	577.0	579.8	577.0	576.9	574.1
180°	577.0	577.0	577.0	577.0	577.0



TEST NUMBER: P621477

CATALOG NUMBER: VLT-F-075U-125D-840-UNV-STD-W-4

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	18.80	19.72	19.66	20.59	21.67	11.04	11.96	11.89	12.82	13.91
	3H	20.30	21.12	21.17	22.00	23.11	12.40	13.22	13.26	14.09	15.21
	4H	20.82	21.59	21.70	22.48	23.60	13.05	13.83	13.93	14.71	15.83
	6H	21.22	21.93	22.11	22.82	23.96	13.64	14.36	14.54	15.25	16.38
	8H	21.35	22.03	22.25	22.94	24.07	13.87	14.55	14.77	15.46	16.59
	12H	21.43	22.08	22.34	22.98	24.14	14.04	14.68	14.95	15.58	16.74
4H	2H	18.64	19.41	19.53	20.30	21.42	11.66	12.44	12.55	13.32	14.44
	3H	20.28	20.92	21.18	21.84	22.98	13.22	13.86	14.12	14.77	15.91
	4H	20.87	21.46	21.78	22.37	23.53	14.02	14.60	14.92	15.51	16.67
	6H	21.37	21.87	22.29	22.81	23.97	14.76	15.26	15.68	16.19	17.36
	8H	21.56	22.03	22.48	22.96	24.13	15.05	15.52	15.98	16.45	17.63
	12H	21.69	22.11	22.63	23.06	24.24	15.27	15.69	16.21	16.64	17.82
8H	4H	20.80	21.26	21.72	22.19	23.37	14.47	14.94	15.40	15.87	17.05
	6H	21.33	21.72	22.28	22.69	23.87	15.36	15.75	16.31	16.72	17.89
	8H	21.57	21.91	22.53	22.87	24.07	15.75	16.10	16.71	17.06	18.25
	12H	21.76	22.06	22.72	23.01	24.26	16.08	16.38	17.04	17.33	18.58
12H	4H	20.75	21.17	21.69	22.12	23.30	14.53	14.95	15.47	15.89	17.08
	6H	21.31	21.65	22.27	22.61	23.80	15.47	15.82	16.43	16.78	17.97
	8H	21.55	21.85	22.51	22.81	24.05	15.92	16.22	16.88	17.17	18.42