

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: P621548

Luminaire Tested: VLT-F-125U-125D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621548
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-835-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

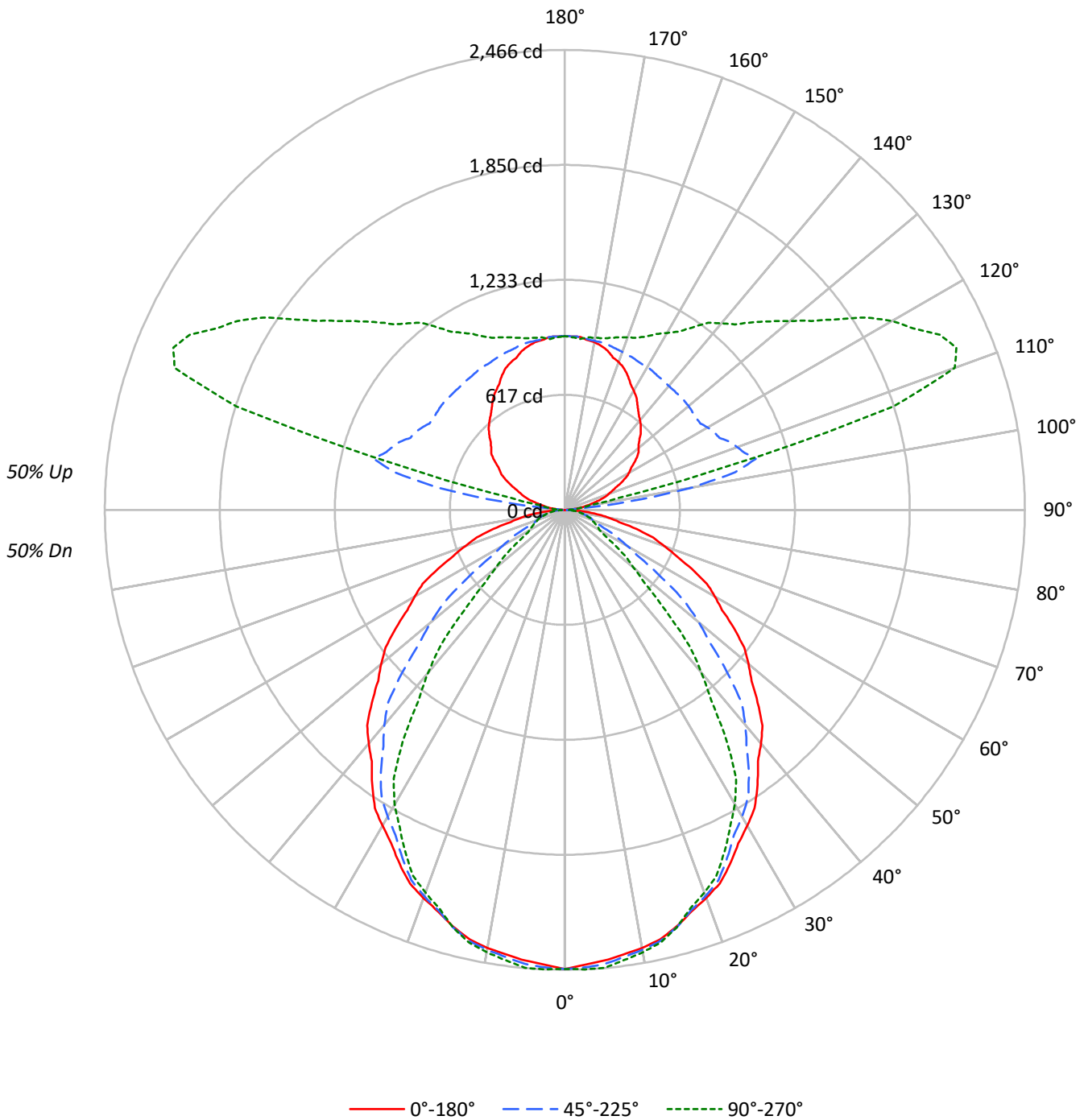
Lumens per Lamp: N/A
Luminaire Lumens: 10023.6 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

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: P621548
CATALOG NUMBER: VLT-F-125U-125D-835-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621548

CATALOG NUMBER: VLT-F-125U-125D-835-UNV-STD-W-4

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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	99	94	91	88	91	87	84	81	74	72	70	62	60	59	51	50	49	44				
2	90	83	78	73	83	77	72	68	66	62	59	55	53	50	46	44	42	38				
3	83	74	67	61	76	69	63	58	59	54	50	50	46	44	41	39	37	33				
4	76	66	58	53	70	61	55	50	53	48	44	45	41	38	37	34	32	29				
5	70	59	51	46	65	55	48	43	47	42	38	40	36	33	34	31	29	25				
6	65	53	45	40	60	50	43	38	43	38	34	37	33	30	31	28	26	23				
7	60	48	41	35	55	45	38	33	39	34	30	34	29	26	28	25	23	20				
8	56	44	36	31	52	41	34	30	36	31	27	31	27	24	26	23	21	18				
9	52	40	33	28	48	38	31	27	33	28	24	29	24	21	24	21	19	17				
10	49	37	30	25	45	35	28	24	30	25	22	26	22	20	23	19	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17666	17666	17666
5°	17477	17606	17752
10°	17383	17457	17550
15°	17194	17212	17212
20°	16916	16838	16683
25°	16592	16311	16029
30°	16206	15742	15110
35°	15774	15061	13256
40°	15319	14104	10673
45°	14841	12492	7743
50°	14338	10448	5366
55°	13841	7954	4010
60°	13323	5511	3030
65°	12740	3929	3109
70°	11898	3309	3202
75°	10999	3385	3244
80°	9563	3575	3364
85°	7748	3977	3351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14841 cd/sqm



TEST NUMBER: P621548

CATALOG NUMBER: VLT-F-125U-125D-835-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.0	2.3
10°-20°	652.4	6.5
20°-30°	948.9	9.5
30°-40°	1049.8	10.5
40°-50°	901.3	9.0
50°-60°	624.1	6.2
60°-70°	371.9	3.7
70°-80°	183.2	1.8
80°-90°	58.7	0.6
90°-100°	114.5	1.1
100°-110°	815.7	8.1
110°-120°	1107.4	11.0
120°-130°	901.3	9.0
130°-140°	724.9	7.2
140°-150°	571.5	5.7
150°-160°	417.9	4.2
160°-170°	259.6	2.6
170°-180°	88.5	0.9
0°-30°	1833.3	18.3
0°-40°	2883.1	28.8
0°-60°	4408.4	44.0
0°-90°	5022.2	50.1
90°-120°	2037.7	20.3
90°-150°	4235.4	42.3
90°-180°	5001.0	49.9
0°-180°	10023.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2462	2462	2462	2462	2462	
5°	2426	2464	2444	2442	2464	230
15°	2314	2344	2317	2304	2317	652
25°	2096	2111	2060	2024	2024	964
35°	1801	1796	1719	1580	1513	1125
45°	1462	1438	1231	890	763	1128
55°	1106	1059	636	365	320	989
65°	750	604	231	186	183	743
75°	397	173	122	120	117	419
85°	94	47	48	43	41	109
90°	0	6	12	18	18	6
95°	47	87	47	53	64	52
105°	182	279	1060	1354	896	191
115°	322	391	914	1899	2219	320
125°	463	526	861	1505	1780	411
135°	574	637	867	1240	1423	441
145°	679	736	872	1080	1195	427
155°	796	825	890	979	1025	366
165°	884	896	914	937	954	248
175°	931	937	931	925	919	88
180°	931	931	931	931	931	

TEST NUMBER: P621548

CATALOG NUMBER: VLT-F-125U-125D-835-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2461.9	2461.9	2461.9	2461.9	2461.9
2.5°	2441.5	2469.4	2455.8	2456.0	2465.9
5°	2426.3	2463.6	2444.1	2442.0	2464.4
7.5°	2403.9	2438.2	2418.1	2415.5	2434.9
10°	2385.6	2417.9	2395.7	2391.1	2408.5
12.5°	2359.1	2391.5	2367.3	2358.5	2375.9
15°	2314.4	2344.2	2316.9	2304.5	2316.9
17.5°	2257.9	2282.8	2251.8	2232.1	2239.6
20°	2215.2	2240.0	2205.0	2177.2	2184.7
22.5°	2168.4	2189.3	2150.1	2118.1	2123.6
25°	2095.6	2110.6	2060.0	2024.4	2024.4
27.5°	2014.8	2023.7	1964.9	1927.6	1917.1
30°	1955.8	1960.7	1899.8	1855.8	1823.5
32.5°	1894.7	1897.7	1828.6	1757.8	1707.5
35°	1800.6	1795.7	1719.2	1580.4	1513.2
37.5°	1700.4	1689.5	1599.2	1387.9	1287.9
40°	1635.3	1620.4	1505.6	1251.3	1139.4
42.5°	1568.2	1547.3	1401.8	1110.6	986.8
45°	1462.4	1437.5	1230.9	889.8	763.0
47.5°	1357.6	1324.8	1056.0	689.3	580.4
50°	1284.3	1249.5	935.9	567.7	480.7
52.5°	1211.1	1176.3	813.8	476.6	407.4
55°	1106.3	1059.1	635.8	365.2	320.5
57.5°	999.5	931.9	473.6	284.6	249.7
60°	928.3	838.8	384.0	236.0	211.1
62.5°	859.1	745.7	314.9	205.9	200.9
65°	750.3	603.5	231.4	185.6	183.1
67.5°	646.5	460.5	171.9	167.3	164.8
70°	567.1	363.2	157.7	155.1	152.6
72.5°	495.9	278.1	143.4	140.8	138.4
75°	396.7	172.9	122.1	119.5	117.0
77.5°	296.5	109.0	100.7	98.1	95.6
80°	231.4	89.7	86.5	83.9	81.4
82.5°	174.5	72.5	70.2	67.6	65.1
85°	94.1	46.9	48.3	43.2	40.7
87.5°	32.6	23.8	24.7	21.8	19.8
90°	0.0	5.7	11.7	17.6	17.6
92.5°	14.1	19.8	25.8	36.4	41.0
95°	46.8	86.9	46.8	53.0	64.4
97.5°	83.2	166.7	344.3	101.6	87.8
100°	111.3	208.6	691.0	203.4	134.7
102.5°	139.4	241.3	934.6	536.7	294.0
105°	181.5	278.9	1059.9	1354.0	895.9
107.5°	223.7	297.0	1011.9	1970.5	1845.7
110°	251.8	320.5	983.8	2070.6	2225.2



TEST NUMBER: P621548

CATALOG NUMBER: VLT-F-125U-125D-835-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	279.9	348.6	955.6	2012.1	2272.0
115°	322.1	390.8	913.5	1898.7	2219.3
117.5°	365.4	433.0	902.9	1775.9	2105.7
120°	398.2	461.2	884.2	1682.5	2026.1
122.5°	421.6	489.2	860.8	1602.3	1918.3
125°	462.6	525.6	860.8	1505.3	1780.1
127.5°	496.6	560.7	862.0	1392.8	1664.2
130°	515.3	584.0	866.6	1317.5	1575.2
132.5°	538.7	607.4	866.6	1283.7	1495.5
135°	573.9	636.8	866.6	1239.7	1422.9
137.5°	603.1	670.7	866.6	1191.1	1348.0
140°	626.6	689.5	866.6	1162.7	1305.8
142.5°	650.0	708.4	871.3	1129.7	1263.7
145°	679.3	736.5	872.5	1080.1	1194.6
147.5°	714.4	764.8	879.5	1044.3	1132.5
150°	737.8	783.6	884.2	1020.6	1095.0
152.5°	761.2	802.5	884.2	1001.5	1062.2
155°	796.4	825.0	890.1	978.9	1024.7
157.5°	824.5	852.0	897.1	964.6	997.8
160°	843.2	866.1	901.8	955.1	983.8
162.5°	857.3	880.2	906.5	950.2	969.7
165°	884.2	895.7	913.5	937.3	954.5
167.5°	899.4	909.7	919.3	931.3	941.6
170°	913.5	919.2	919.3	931.2	936.9
172.5°	918.2	928.5	924.0	926.5	932.2
175°	931.1	936.8	931.1	925.1	919.3
177.5°	931.1	935.6	931.1	931.0	926.4
180°	931.1	931.1	931.1	931.1	931.1



TEST NUMBER: P621548

CATALOG NUMBER: VLT-F-125U-125D-835-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	17.61	18.42	18.57	19.40	20.67	9.84	10.66	10.81	11.63	12.90
	3H	19.10	19.82	20.08	20.81	22.10	11.19	11.92	12.17	12.90	14.20
	4H	19.61	20.30	20.60	21.28	22.59	11.84	12.53	12.84	13.52	14.82
	6H	20.00	20.64	21.01	21.63	22.94	12.43	13.06	13.43	14.05	15.37
	8H	20.13	20.73	21.14	21.74	23.06	12.66	13.26	13.66	14.26	15.58
	12H	20.21	20.78	21.23	21.79	23.12	12.82	13.39	13.83	14.39	15.73
4H	2H	17.43	18.12	18.43	19.10	20.41	10.45	11.14	11.45	12.13	13.43
	3H	19.06	19.63	20.07	20.65	21.97	12.00	12.57	13.01	13.59	14.90
	4H	19.65	20.17	20.67	21.18	22.52	12.80	13.31	13.81	14.32	15.67
	6H	20.14	20.59	21.17	21.62	22.96	13.53	13.98	14.56	15.01	16.35
	8H	20.33	20.75	21.36	21.77	23.12	13.82	14.24	14.85	15.26	16.62
	12H	20.46	20.83	21.50	21.87	23.23	14.04	14.41	15.08	15.45	16.81
8H	4H	19.57	19.98	20.59	21.01	22.36	13.25	13.66	14.27	14.69	16.04
	6H	20.10	20.44	21.15	21.51	22.86	14.13	14.47	15.18	15.54	16.89
	8H	20.34	20.64	21.39	21.69	23.06	14.52	14.82	15.58	15.88	17.25
	12H	20.52	20.79	21.58	21.84	23.25	14.84	15.11	15.90	16.15	17.57
12H	4H	19.52	19.89	20.56	20.93	22.29	13.29	13.67	14.34	14.71	16.07
	6H	20.07	20.38	21.13	21.43	22.80	14.24	14.54	15.30	15.60	16.97
	8H	20.31	20.58	21.37	21.63	23.04	14.68	14.95	15.74	16.00	17.41