

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: P621552

Luminaire Tested: VLT-F-125U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621552
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-940-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

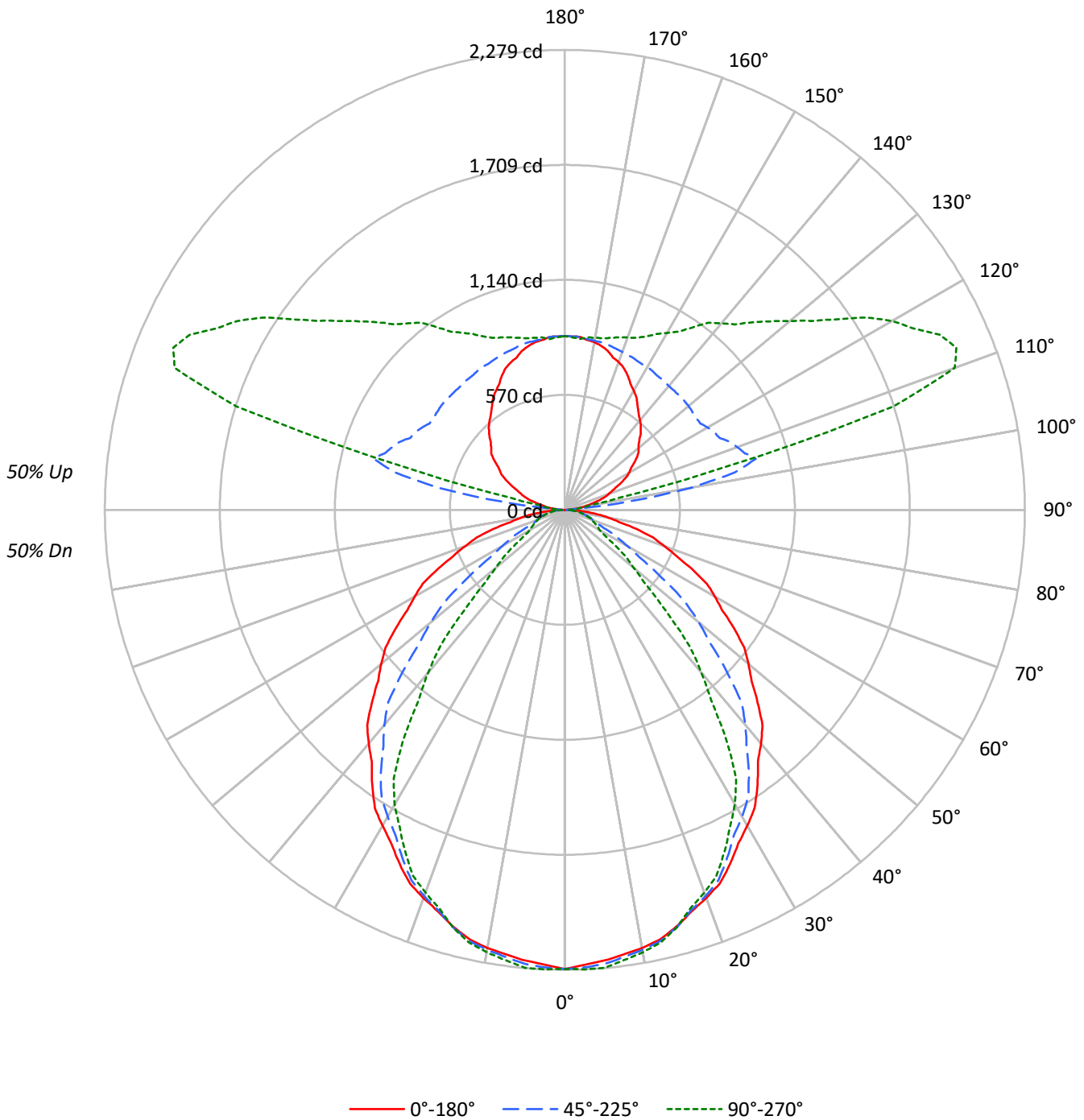
Lumens per Lamp: N/A
Luminaire Lumens: 9263.5 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

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: P621552
CATALOG NUMBER: VLT-F-125U-125D-940-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621552

CATALOG NUMBER: VLT-F-125U-125D-940-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					
RC	80					70					50					30					
RW	70	50	30	10	70	50	30	10	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	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°	16327	16327	16327
5°	16152	16270	16406
10°	16065	16133	16219
15°	15890	15907	15907
20°	15633	15562	15418
25°	15334	15074	14813
30°	14977	14548	13964
35°	14578	13919	12251
40°	14157	13034	9864
45°	13715	11545	7156
50°	13251	9656	4959
55°	12791	7351	3706
60°	12312	5093	2800
65°	11774	3632	2873
70°	10996	3057	2958
75°	10167	3127	2997
80°	8839	3302	3108
85°	7163	3680	3096

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13715 cd/sqm



TEST NUMBER: P621552

CATALOG NUMBER: VLT-F-125U-125D-940-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	2.3
10°-20°	602.9	6.5
20°-30°	877.0	9.5
30°-40°	970.2	10.5
40°-50°	833.0	9.0
50°-60°	576.8	6.2
60°-70°	343.7	3.7
70°-80°	169.3	1.8
80°-90°	54.2	0.6
90°-100°	105.8	1.1
100°-110°	753.9	8.1
110°-120°	1023.4	11.0
120°-130°	833.0	9.0
130°-140°	670.0	7.2
140°-150°	528.2	5.7
150°-160°	386.2	4.2
160°-170°	239.9	2.6
170°-180°	81.8	0.9
0°-30°	1694.2	18.3
0°-40°	2664.4	28.8
0°-60°	4074.1	44.0
0°-90°	4641.4	50.1
90°-120°	1883.1	20.3
90°-150°	3914.2	42.3
90°-180°	4622.0	49.9
0°-180°	9263.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2275	2275	2275	2275	2275	
5°	2242	2277	2259	2257	2278	213
15°	2139	2166	2141	2130	2141	602
25°	1937	1950	1904	1871	1871	891
35°	1664	1660	1589	1460	1398	1040
45°	1352	1328	1138	822	705	1043
55°	1022	979	588	338	296	914
65°	693	558	214	172	169	687
75°	367	160	113	110	108	387
85°	87	43	45	40	38	101
90°	0	5	11	16	16	6
95°	43	80	43	49	60	48
105°	168	258	980	1251	828	177
115°	298	361	844	1755	2051	295
125°	428	486	796	1391	1645	380
135°	530	588	801	1146	1315	408
145°	628	681	806	998	1104	394
155°	736	762	823	905	947	338
165°	817	828	844	866	882	229
175°	860	866	860	855	850	81
180°	860	860	860	860	860	

TEST NUMBER: P621552

CATALOG NUMBER: VLT-F-125U-125D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2275.2	2275.2	2275.2	2275.2	2275.2
2.5°	2256.4	2282.1	2269.5	2269.8	2278.9
5°	2242.3	2276.8	2258.7	2256.9	2277.5
7.5°	2221.6	2253.3	2234.8	2232.3	2250.3
10°	2204.7	2234.6	2214.1	2209.7	2225.8
12.5°	2180.2	2210.1	2187.8	2179.7	2195.7
15°	2138.9	2166.4	2141.2	2129.7	2141.2
17.5°	2086.7	2109.7	2081.0	2062.9	2069.8
20°	2047.2	2070.2	2037.8	2012.1	2019.0
22.5°	2004.0	2023.3	1987.0	1957.5	1962.6
25°	1936.7	1950.5	1903.8	1870.9	1870.9
27.5°	1862.0	1870.3	1815.9	1781.4	1771.7
30°	1807.5	1812.1	1755.7	1715.1	1685.2
32.5°	1751.0	1753.8	1689.9	1624.5	1578.1
35°	1664.1	1659.5	1588.9	1460.5	1398.5
37.5°	1571.5	1561.4	1477.9	1282.6	1190.2
40°	1511.3	1497.5	1391.4	1156.4	1053.0
42.5°	1449.3	1430.0	1295.5	1026.4	912.0
45°	1351.5	1328.5	1137.6	822.3	705.1
47.5°	1254.6	1224.3	975.9	637.0	536.4
50°	1187.0	1154.8	864.9	524.7	444.2
52.5°	1119.3	1087.1	752.1	440.4	376.5
55°	1022.4	978.8	587.6	337.5	296.2
57.5°	923.7	861.2	437.6	263.0	230.8
60°	857.9	775.2	354.9	218.1	195.1
62.5°	794.0	689.2	291.0	190.3	185.7
65°	693.4	557.8	213.9	171.5	169.2
67.5°	597.5	425.6	158.9	154.6	152.3
70°	524.1	335.7	145.7	143.3	141.0
72.5°	458.3	257.0	132.6	130.2	127.9
75°	366.7	159.8	112.8	110.4	108.1
77.5°	274.1	100.8	93.1	90.7	88.4
80°	213.9	82.9	79.9	77.5	75.2
82.5°	161.2	67.0	64.9	62.5	60.2
85°	87.0	43.3	44.7	39.9	37.6
87.5°	30.1	22.0	22.8	20.1	18.3
90°	0.0	5.3	10.8	16.2	16.2
92.5°	13.0	18.3	23.8	33.6	37.9
95°	43.3	80.3	43.3	48.9	59.5
97.5°	76.8	154.1	318.2	93.9	81.2
100°	102.8	192.8	638.6	188.0	124.5
102.5°	128.8	223.0	863.7	496.0	271.7
105°	167.8	257.7	979.5	1251.3	828.0
107.5°	206.7	274.5	935.1	1821.1	1705.8
110°	232.7	296.2	909.2	1913.6	2056.4



TEST NUMBER: P621552

CATALOG NUMBER: VLT-F-125U-125D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	258.7	322.2	883.2	1859.5	2099.7
115°	297.6	361.1	844.2	1754.7	2051.0
117.5°	337.7	400.1	834.5	1641.2	1946.0
120°	368.0	426.2	817.2	1554.9	1872.4
122.5°	389.6	452.1	795.5	1480.8	1772.9
125°	427.5	485.7	795.5	1391.2	1645.1
127.5°	458.9	518.2	796.6	1287.2	1538.0
130°	476.2	539.7	800.9	1217.6	1455.7
132.5°	497.9	561.4	800.9	1186.4	1382.1
135°	530.3	588.5	800.9	1145.7	1315.0
137.5°	557.4	619.8	800.9	1100.8	1245.8
140°	579.0	637.3	800.9	1074.5	1206.8
142.5°	600.7	654.7	805.3	1044.0	1167.8
145°	627.8	680.7	806.3	998.1	1104.0
147.5°	660.2	706.8	812.8	965.1	1046.6
150°	681.9	724.2	817.2	943.2	1012.0
152.5°	703.5	741.6	817.2	925.6	981.7
155°	736.0	762.4	822.6	904.7	947.0
157.5°	762.0	787.4	829.1	891.5	922.1
160°	779.3	800.4	833.4	882.7	909.2
162.5°	792.3	813.4	837.7	878.2	896.2
165°	817.2	827.7	844.2	866.2	882.1
167.5°	831.2	840.8	849.6	860.7	870.2
170°	844.2	849.5	849.6	860.6	865.9
172.5°	848.5	858.1	854.0	856.2	861.5
175°	860.5	865.7	860.5	854.9	849.6
177.5°	860.5	864.7	860.5	860.4	856.1
180°	860.5	860.5	860.5	860.5	860.5



TEST NUMBER: P621552

CATALOG NUMBER: VLT-F-125U-125D-940-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	17.33	18.15	18.30	19.12	20.40	9.57	10.38	10.53	11.36	12.63
	3H	18.82	19.55	19.80	20.53	21.83	10.92	11.64	11.90	12.63	13.92
	4H	19.34	20.02	20.33	21.01	22.31	11.57	12.26	12.56	13.24	14.55
	6H	19.73	20.36	20.73	21.35	22.67	12.16	12.79	13.16	13.78	15.10
	8H	19.86	20.46	20.87	21.47	22.78	12.38	12.98	13.39	13.99	15.30
	12H	19.94	20.51	20.95	21.51	22.85	12.54	13.11	13.56	14.12	15.45
4H	2H	17.16	17.84	18.16	18.83	20.14	10.18	10.87	11.18	11.85	13.16
	3H	18.79	19.36	19.80	20.38	21.69	11.73	12.30	12.73	13.31	14.63
	4H	19.38	19.90	20.39	20.91	22.25	12.52	13.04	13.53	14.05	15.39
	6H	19.87	20.32	20.90	21.35	22.69	13.26	13.70	14.28	14.73	16.07
	8H	20.06	20.47	21.08	21.50	22.85	13.55	13.96	14.57	14.99	16.34
	12H	20.18	20.56	21.23	21.60	22.96	13.76	14.14	14.81	15.18	16.54
8H	4H	19.29	19.71	20.32	20.73	22.09	12.97	13.39	14.00	14.41	15.77
	6H	19.83	20.17	20.88	21.24	22.59	13.85	14.20	14.90	15.26	16.61
	8H	20.06	20.36	21.12	21.42	22.79	14.25	14.55	15.30	15.60	16.97
	12H	20.25	20.52	21.31	21.56	22.97	14.56	14.83	15.62	15.88	17.29
12H	4H	19.24	19.62	20.28	20.66	22.02	13.02	13.39	14.06	14.43	15.79
	6H	19.80	20.10	20.86	21.15	22.52	13.97	14.27	15.02	15.32	16.69
	8H	20.04	20.31	21.10	21.35	22.77	14.41	14.67	15.47	15.72	17.13