

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: P621545

Luminaire Tested: VLT-F-125U-100D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621545
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-100D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7954.6 lumens
Efficiency: N/A
Efficacy: 118.0 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: General Diffuse

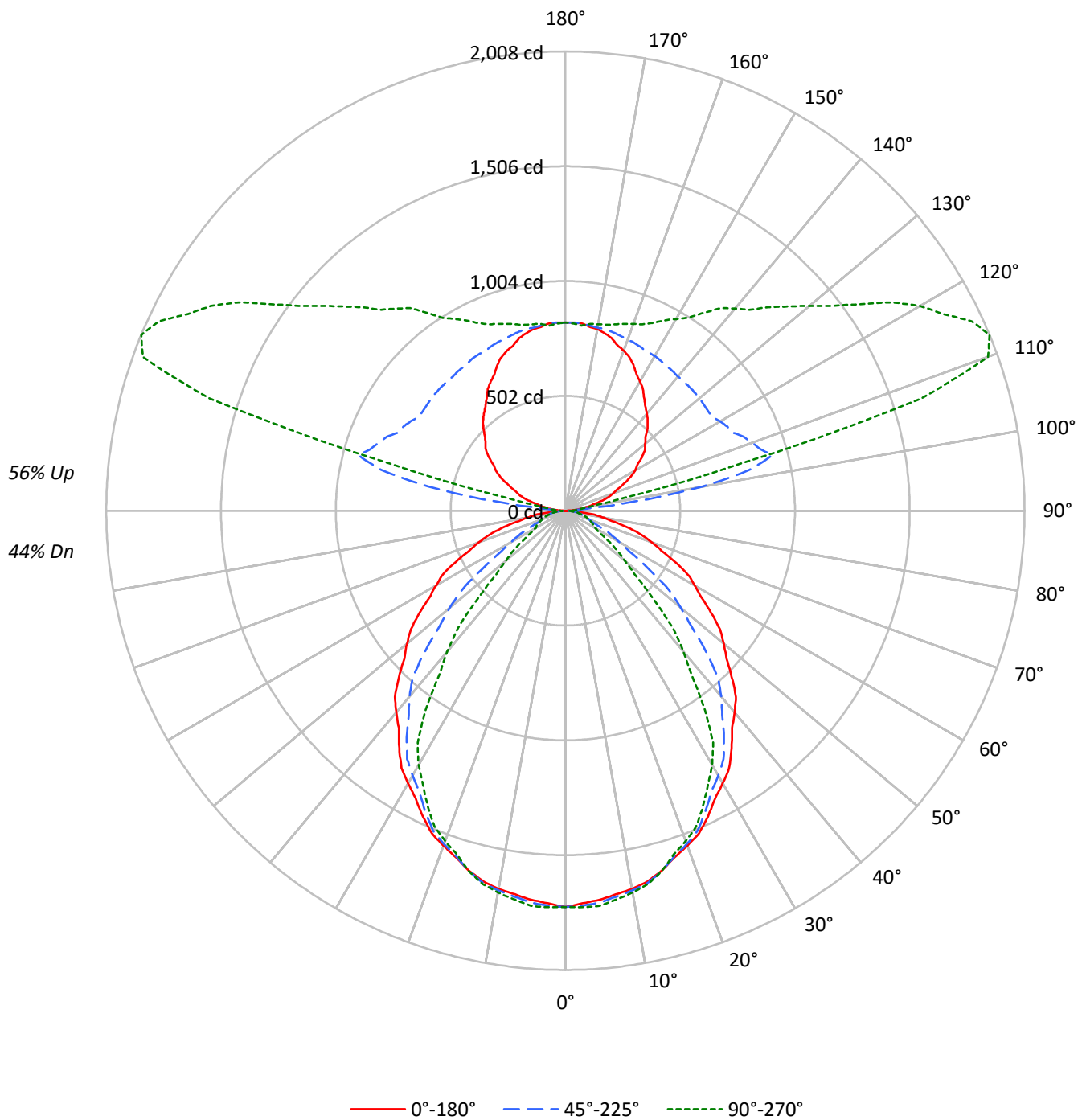
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P621545

CATALOG NUMBER: VLT-F-125U-100D-935-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621545

CATALOG NUMBER: VLT-F-125U-100D-935-UNV-STD-W-4

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	97	93	89	86	89	85	82	80	71	69	67	58	57	55	46	45	44
2	89	82	76	71	81	75	71	66	63	60	57	52	49	47	41	40	38
3	82	73	66	60	75	67	61	56	56	52	48	46	43	41	37	35	33
4	75	65	57	52	69	60	53	48	50	46	42	42	38	35	34	31	29
5	69	58	50	44	63	54	47	42	45	40	36	38	34	31	31	28	26
6	64	52	44	39	58	48	41	37	41	36	32	34	30	27	28	25	23
7	59	47	40	34	54	44	37	32	37	32	28	31	27	24	26	23	21
8	55	43	36	30	50	40	33	29	34	29	25	29	25	22	24	21	19
9	51	39	32	27	47	37	30	26	31	26	23	27	23	20	22	19	17
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12434	12434	12434
5°	12301	12391	12494
10°	12234	12287	12352
15°	12101	12115	12115
20°	11906	11851	11742
25°	11679	11480	11281
30°	11406	11079	10634
35°	11102	10600	9330
40°	10782	9927	7512
45°	10446	8793	5450
50°	10092	7354	3777
55°	9742	5599	2821
60°	9378	3879	2133
65°	8967	2766	2189
70°	8376	2329	2253
75°	7741	2382	2282
80°	6732	2517	2368
85°	5451	2799	2355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10446 cd/sqm



TEST NUMBER: P621545

CATALOG NUMBER: VLT-F-125U-100D-935-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	2.1
10°-20°	459.1	5.8
20°-30°	667.9	8.4
30°-40°	738.9	9.3
40°-50°	634.4	8.0
50°-60°	439.2	5.5
60°-70°	261.7	3.3
70°-80°	129.0	1.6
80°-90°	41.7	0.5
90°-100°	101.2	1.3
100°-110°	720.8	9.1
110°-120°	978.6	12.3
120°-130°	796.5	10.0
130°-140°	640.6	8.1
140°-150°	505.0	6.3
150°-160°	369.3	4.6
160°-170°	229.4	2.9
170°-180°	78.2	1.0
0°-30°	1290.3	16.2
0°-40°	2029.2	25.5
0°-60°	3102.8	39.0
0°-90°	3535.1	44.4
90°-120°	1800.6	22.6
90°-150°	3742.6	47.0
90°-180°	4419.0	55.6
0°-180°	7954.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1708	1734	1720	1719	1734	162
15°	1629	1650	1631	1622	1631	459
25°	1475	1486	1450	1425	1425	679
35°	1267	1264	1210	1112	1065	792
45°	1029	1012	866	626	537	794
55°	779	745	448	257	226	696
65°	528	425	163	131	129	523
75°	279	122	86	84	82	295
85°	66	33	34	30	29	77
90°	0	5	10	16	16	5
95°	41	77	41	47	57	46
105°	160	246	937	1196	792	169
115°	285	345	807	1678	1961	283
125°	409	464	761	1330	1573	363
135°	507	563	766	1096	1257	390
145°	600	651	771	954	1056	377
155°	704	729	786	865	906	323
165°	781	792	807	828	843	219
175°	823	828	823	817	812	78
180°	823	823	823	823	823	



TEST NUMBER: P621545

CATALOG NUMBER: VLT-F-125U-100D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1718.4	1738.0	1728.4	1728.6	1735.6
5°	1707.7	1733.9	1720.2	1718.8	1734.5
7.5°	1691.9	1716.1	1701.9	1700.1	1713.8
10°	1679.0	1701.8	1686.2	1682.9	1695.1
12.5°	1660.4	1683.2	1666.1	1660.0	1672.2
15°	1628.9	1649.9	1630.7	1621.9	1630.7
17.5°	1589.2	1606.7	1584.9	1571.0	1576.3
20°	1559.1	1576.6	1551.9	1532.4	1537.6
22.5°	1526.2	1540.9	1513.3	1490.8	1494.7
25°	1475.0	1485.5	1449.9	1424.8	1424.8
27.5°	1418.0	1424.3	1383.0	1356.7	1349.3
30°	1376.5	1380.0	1337.1	1306.2	1283.4
32.5°	1333.6	1335.7	1287.0	1237.2	1201.8
35°	1267.3	1263.8	1210.0	1112.3	1065.1
37.5°	1196.8	1189.1	1125.6	976.8	906.5
40°	1151.0	1140.5	1059.7	880.7	801.9
42.5°	1103.7	1089.0	986.7	781.7	694.5
45°	1029.3	1011.8	866.4	626.3	537.0
47.5°	955.5	932.4	743.2	485.1	408.5
50°	904.0	879.5	658.7	399.6	338.3
52.5°	852.4	827.9	572.8	335.4	286.8
55°	778.7	745.4	447.5	257.0	225.5
57.5°	703.5	655.9	333.3	200.3	175.8
60°	653.4	590.3	270.3	166.1	148.6
62.5°	604.7	524.9	221.6	144.9	141.4
65°	528.1	424.8	162.9	130.6	128.9
67.5°	455.0	324.1	121.0	117.7	116.0
70°	399.2	255.7	111.0	109.2	107.4
72.5°	349.1	195.7	101.0	99.1	97.4
75°	279.2	121.7	85.9	84.1	82.3
77.5°	208.7	76.7	70.9	69.1	67.3
80°	162.9	63.1	60.9	59.0	57.3
82.5°	122.8	51.0	49.4	47.6	45.8
85°	66.2	33.0	34.0	30.4	28.6
87.5°	22.9	16.9	17.8	16.0	14.6
90°	0.0	5.1	10.3	15.5	15.5
92.5°	12.4	17.5	22.8	32.2	36.2
95°	41.4	76.8	41.4	46.8	56.9
97.5°	73.5	147.3	304.3	89.8	77.6
100°	98.3	184.3	610.6	179.7	119.0
102.5°	123.2	213.2	825.8	474.3	259.8
105°	160.4	246.4	936.6	1196.4	791.7
107.5°	197.7	262.4	894.1	1741.3	1631.0
110°	222.5	283.2	869.3	1829.7	1966.3



TEST NUMBER: P621545

CATALOG NUMBER: VLT-F-125U-100D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	247.3	308.0	844.5	1778.0	2007.7
115°	284.6	345.3	807.2	1677.8	1961.1
117.5°	322.9	382.6	797.9	1569.3	1860.7
120°	351.9	407.5	781.3	1486.8	1790.3
122.5°	372.6	432.3	760.6	1415.9	1695.1
125°	408.8	464.4	760.6	1330.2	1573.0
127.5°	438.8	495.5	761.7	1230.8	1470.6
130°	455.3	516.1	765.8	1164.2	1391.9
132.5°	476.0	536.8	765.8	1134.3	1321.5
135°	507.1	562.7	765.8	1095.5	1257.4
137.5°	533.0	592.7	765.8	1052.5	1191.1
140°	553.7	609.3	765.8	1027.4	1153.9
142.5°	574.4	626.0	770.0	998.2	1116.6
145°	600.2	650.8	771.0	954.4	1055.6
147.5°	631.3	675.8	777.2	922.8	1000.7
150°	652.0	692.5	781.3	901.8	967.6
152.5°	672.7	709.1	781.3	885.0	938.6
155°	703.7	729.0	786.5	865.0	905.5
157.5°	728.6	752.8	792.7	852.4	881.7
160°	745.1	765.4	796.9	844.0	869.3
162.5°	757.5	777.8	801.0	839.7	856.9
165°	781.3	791.5	807.2	828.3	843.4
167.5°	794.8	803.9	812.4	822.9	832.0
170°	807.2	812.3	812.4	822.8	827.9
172.5°	811.3	820.5	816.5	818.7	823.8
175°	822.7	827.8	822.7	817.4	812.4
177.5°	822.7	826.8	822.7	822.6	818.6
180°	822.7	822.7	822.7	822.7	822.7



TEST NUMBER: P621545

CATALOG NUMBER: VLT-F-125U-100D-935-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	15.83	16.60	16.85	17.62	18.97	8.07	8.84	9.08	9.85	11.21
	3H	17.32	18.01	18.34	19.03	20.41	9.41	10.10	10.44	11.13	12.50
	4H	17.83	18.48	18.87	19.51	20.89	10.06	10.71	11.10	11.74	13.12
	6H	18.22	18.82	19.27	19.85	21.25	10.65	11.25	11.69	12.28	13.67
	8H	18.35	18.92	19.40	19.97	21.36	10.87	11.44	11.92	12.49	13.88
	12H	18.43	18.97	19.48	20.01	21.42	11.03	11.57	12.09	12.62	14.03
4H	2H	15.65	16.30	16.69	17.33	18.71	8.67	9.32	9.72	10.35	11.73
	3H	17.28	17.82	18.33	18.88	20.27	10.22	10.76	11.27	11.81	13.21
	4H	17.87	18.36	18.92	19.41	20.83	11.01	11.50	12.07	12.55	13.97
	6H	18.36	18.78	19.42	19.85	21.26	11.74	12.17	12.81	13.24	14.65
	8H	18.54	18.94	19.61	20.00	21.43	12.03	12.43	13.10	13.49	14.92
	12H	18.67	19.02	19.75	20.10	21.53	12.25	12.60	13.33	13.68	15.11
8H	4H	17.78	18.17	18.84	19.24	20.66	11.46	11.85	12.52	12.92	14.34
	6H	18.31	18.64	19.40	19.74	21.17	12.34	12.66	13.43	13.77	15.19
	8H	18.55	18.83	19.64	19.92	21.36	12.73	13.02	13.83	14.11	15.55
	12H	18.73	18.98	19.83	20.07	21.55	13.05	13.30	14.15	14.38	15.87
12H	4H	17.73	18.08	18.81	19.16	20.59	11.50	11.86	12.59	12.94	14.37
	6H	18.28	18.57	19.38	19.66	21.10	12.45	12.74	13.55	13.83	15.27
	8H	18.52	18.77	19.62	19.86	21.34	12.89	13.14	13.99	14.23	15.71

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

8 of 8