

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: P621544

Luminaire Tested: VLT-F-125U-100D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621544
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-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

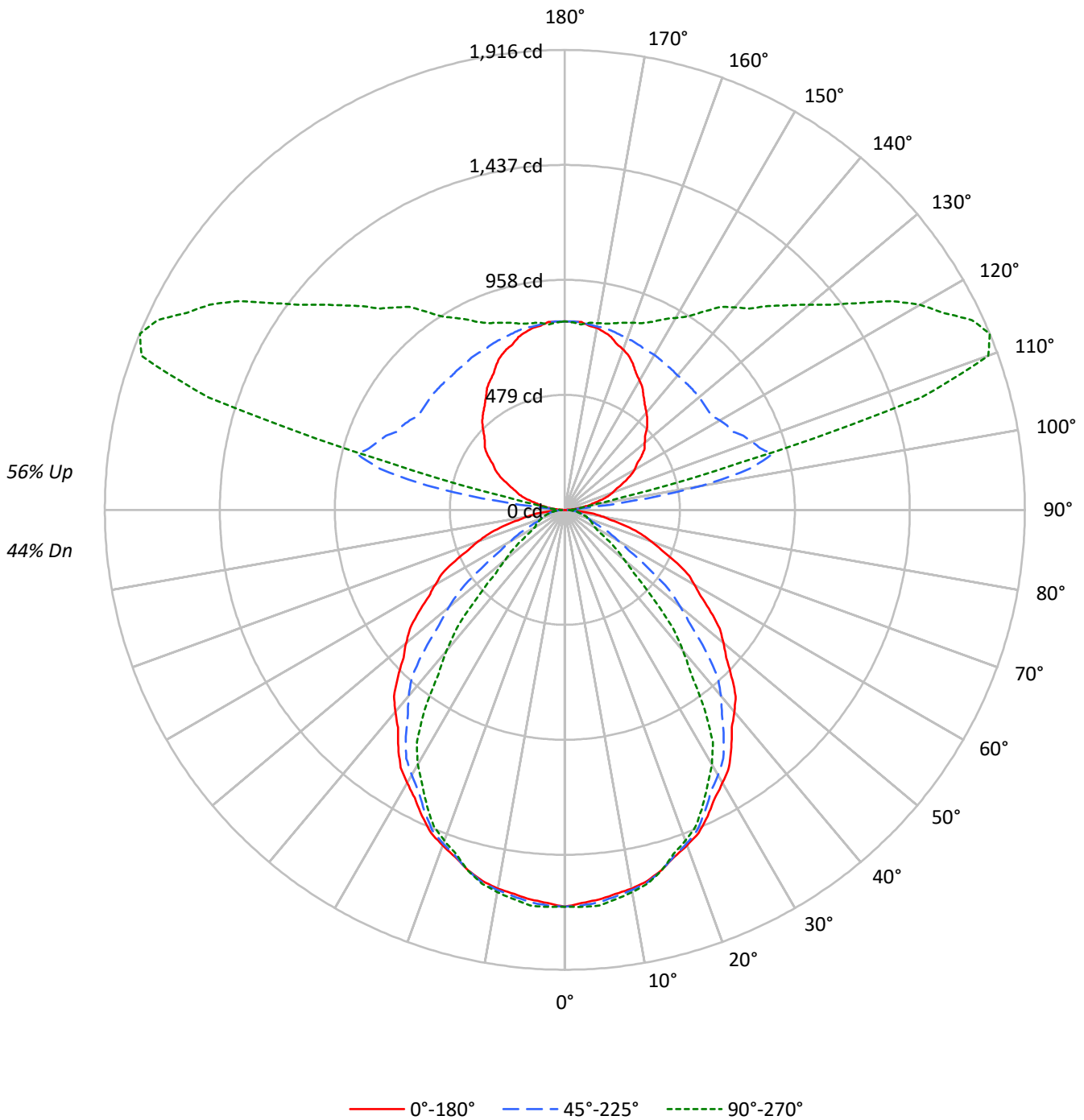
Lumens per Lamp: N/A
Luminaire Lumens: 7590.4 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

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: P621544
CATALOG NUMBER: VLT-F-125U-100D-930-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621544

CATALOG NUMBER: VLT-F-125U-100D-930-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	0		
RCR																				
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44		
1	97	93	89	86	89	85	82	80	71	69	67	58	57	55	46	45	44	39		
2	89	82	76	71	81	75	71	66	63	60	57	52	49	47	41	40	38	33		
3	82	73	66	60	75	67	61	56	56	52	48	46	43	41	37	35	33	29		
4	75	65	57	52	69	60	53	48	50	46	42	42	38	35	34	31	29	26		
5	69	58	50	44	63	54	47	42	45	40	36	38	34	31	31	28	26	23		
6	64	52	44	39	58	48	41	37	41	36	32	34	30	27	28	25	23	20		
7	59	47	40	34	54	44	37	32	37	32	28	31	27	24	26	23	21	18		
8	55	43	36	30	50	40	33	29	34	29	25	29	25	22	24	21	19	16		
9	51	39	32	27	47	37	30	26	31	26	23	27	23	20	22	19	17	15		
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	20	18	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11865	11865	11865
5°	11738	11824	11922
10°	11674	11724	11786
15°	11547	11560	11560
20°	11361	11309	11204
25°	11143	10954	10765
30°	10884	10572	10148
35°	10594	10115	8903
40°	10288	9472	7168
45°	9967	8390	5200
50°	9630	7018	3604
55°	9296	5342	2692
60°	8947	3701	2035
65°	8556	2639	2089
70°	7992	2222	2151
75°	7389	2274	2179
80°	6422	2401	2260
85°	5204	2676	2248

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9967 cd/sqm



TEST NUMBER: P621544

CATALOG NUMBER: VLT-F-125U-100D-930-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	2.1
10°-20°	438.1	5.8
20°-30°	637.3	8.4
30°-40°	705.0	9.3
40°-50°	605.3	8.0
50°-60°	419.1	5.5
60°-70°	249.7	3.3
70°-80°	123.0	1.6
80°-90°	39.8	0.5
90°-100°	96.5	1.3
100°-110°	687.8	9.1
110°-120°	933.8	12.3
120°-130°	760.0	10.0
130°-140°	611.2	8.1
140°-150°	481.9	6.3
150°-160°	352.4	4.6
160°-170°	218.9	2.9
170°-180°	74.6	1.0
0°-30°	1231.2	16.2
0°-40°	1936.2	25.5
0°-60°	2960.7	39.0
0°-90°	3373.2	44.4
90°-120°	1718.1	22.6
90°-150°	3571.3	47.0
90°-180°	4217.0	55.6
0°-180°	7590.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1653	1653	1653	1653	1653	
5°	1630	1654	1641	1640	1655	155
15°	1554	1574	1556	1548	1556	438
25°	1407	1417	1384	1360	1360	647
35°	1209	1206	1155	1061	1016	756
45°	982	965	827	598	512	758
55°	743	711	427	245	215	664
65°	504	405	155	125	123	499
75°	266	116	82	80	79	281
85°	63	32	32	29	27	73
90°	0	5	10	15	15	5
95°	40	73	40	45	54	44
105°	153	235	894	1142	755	161
115°	272	330	770	1601	1871	270
125°	390	443	726	1269	1501	347
135°	484	537	731	1045	1200	372
145°	573	621	736	911	1007	360
155°	672	696	750	825	864	308
165°	746	755	770	790	805	209
175°	785	790	785	780	775	74
180°	785	785	785	785	785	

TEST NUMBER: P621544

CATALOG NUMBER: VLT-F-125U-100D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.4	1653.4	1653.4	1653.4	1653.4
2.5°	1639.7	1658.4	1649.3	1649.4	1656.1
5°	1629.5	1654.5	1641.4	1640.1	1655.1
7.5°	1614.4	1637.5	1624.0	1622.2	1635.3
10°	1602.1	1623.9	1609.0	1605.8	1617.5
12.5°	1584.4	1606.1	1589.8	1584.0	1595.6
15°	1554.3	1574.4	1556.0	1547.7	1556.0
17.5°	1516.4	1533.1	1512.3	1499.1	1504.1
20°	1487.7	1504.4	1480.9	1462.2	1467.2
22.5°	1456.3	1470.3	1444.0	1422.5	1426.2
25°	1407.4	1417.4	1383.5	1359.6	1359.6
27.5°	1353.1	1359.1	1319.6	1294.5	1287.5
30°	1313.5	1316.8	1275.9	1246.4	1224.7
32.5°	1272.5	1274.5	1228.1	1180.5	1146.8
35°	1209.3	1206.0	1154.6	1061.4	1016.3
37.5°	1142.0	1134.6	1074.0	932.1	865.0
40°	1098.3	1088.2	1011.2	840.4	765.2
42.5°	1053.2	1039.1	941.5	745.9	662.7
45°	982.1	965.4	826.7	597.6	512.4
47.5°	911.8	889.7	709.2	462.9	389.8
50°	862.6	839.2	628.6	381.3	322.8
52.5°	813.4	790.0	546.6	320.1	273.6
55°	743.0	711.3	427.0	245.3	215.2
57.5°	671.3	625.8	318.0	191.1	167.7
60°	623.4	563.3	257.9	158.5	141.8
62.5°	577.0	500.8	211.5	138.3	134.9
65°	503.9	405.3	155.4	124.6	123.0
67.5°	434.2	309.3	115.5	112.4	110.7
70°	380.9	243.9	105.9	104.2	102.5
72.5°	333.1	186.8	96.3	94.6	92.9
75°	266.5	116.1	82.0	80.2	78.6
77.5°	199.2	73.2	67.6	65.9	64.2
80°	155.4	60.2	58.1	56.3	54.7
82.5°	117.2	48.7	47.1	45.4	43.7
85°	63.2	31.5	32.5	29.0	27.3
87.5°	21.9	16.1	17.0	15.2	13.9
90°	0.0	4.8	9.9	14.8	14.8
92.5°	11.8	16.7	21.7	30.7	34.6
95°	39.5	73.3	39.5	44.7	54.3
97.5°	70.1	140.6	290.3	85.6	74.1
100°	93.8	175.9	582.6	171.5	113.6
102.5°	117.5	203.4	788.0	452.6	247.9
105°	153.1	235.1	893.7	1141.7	755.4
107.5°	188.6	250.4	853.2	1661.5	1556.3
110°	212.3	270.2	829.5	1745.9	1876.2



TEST NUMBER: P621544

CATALOG NUMBER: VLT-F-125U-100D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	236.0	293.9	805.8	1696.6	1915.7
115°	271.6	329.5	770.2	1600.9	1871.3
117.5°	308.1	365.1	761.4	1497.4	1775.5
120°	335.7	388.9	745.6	1418.7	1708.4
122.5°	355.5	412.5	725.8	1351.0	1617.5
125°	390.1	443.2	725.8	1269.3	1501.0
127.5°	418.7	472.8	726.8	1174.4	1403.2
130°	434.5	492.4	730.7	1110.9	1328.2
132.5°	454.2	512.2	730.7	1082.4	1261.0
135°	483.9	537.0	730.7	1045.3	1199.8
137.5°	508.6	565.5	730.7	1004.3	1136.6
140°	528.3	581.4	730.7	980.4	1101.1
142.5°	548.1	597.3	734.7	952.5	1065.5
145°	572.7	621.0	735.7	910.7	1007.2
147.5°	602.4	644.9	741.6	880.6	954.9
150°	622.1	660.7	745.6	860.5	923.3
152.5°	641.9	676.6	745.6	844.5	895.7
155°	671.5	695.6	750.5	825.4	864.1
157.5°	695.2	718.4	756.4	813.3	841.3
160°	711.0	730.3	760.4	805.4	829.5
162.5°	722.8	742.2	764.3	801.2	817.6
165°	745.6	755.2	770.2	790.3	804.8
167.5°	758.4	767.1	775.2	785.3	793.9
170°	770.2	775.1	775.2	785.2	790.0
172.5°	774.2	782.9	779.1	781.2	786.0
175°	785.1	789.9	785.1	780.0	775.2
177.5°	785.1	788.9	785.1	785.0	781.1
180°	785.1	785.1	785.1	785.1	785.1



TEST NUMBER: P621544

CATALOG NUMBER: VLT-F-125U-100D-930-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	15.67	16.44	16.68	17.46	18.81	7.90	8.68	8.92	9.69	11.04
	3H	17.16	17.85	18.18	18.87	20.24	9.25	9.94	10.28	10.97	12.34
	4H	17.67	18.32	18.70	19.35	20.73	9.90	10.55	10.94	11.58	12.96
	6H	18.06	18.66	19.10	19.69	21.08	10.49	11.09	11.53	12.12	13.51
	8H	18.19	18.76	19.24	19.81	21.19	10.71	11.28	11.76	12.33	13.71
	12H	18.27	18.81	19.32	19.85	21.26	10.87	11.41	11.93	12.45	13.87
4H	2H	15.49	16.14	16.53	17.17	18.55	8.51	9.16	9.55	10.19	11.57
	3H	17.12	17.66	18.17	18.71	20.11	10.05	10.60	11.10	11.65	13.04
	4H	17.70	18.20	18.76	19.25	20.66	10.85	11.34	11.90	12.39	13.80
	6H	18.19	18.62	19.26	19.69	21.10	11.58	12.00	12.65	13.08	14.49
	8H	18.38	18.77	19.44	19.84	21.26	11.87	12.27	12.94	13.33	14.76
	12H	18.50	18.86	19.59	19.94	21.37	12.09	12.44	13.17	13.52	14.95
8H	4H	17.62	18.01	18.68	19.07	20.50	11.29	11.69	12.36	12.75	14.18
	6H	18.15	18.47	19.24	19.58	21.00	12.17	12.50	13.26	13.61	15.03
	8H	18.38	18.67	19.48	19.76	21.20	12.57	12.86	13.66	13.94	15.39
	12H	18.57	18.82	19.67	19.90	21.39	12.89	13.14	13.98	14.22	15.70
12H	4H	17.56	17.92	18.65	19.00	20.43	11.34	11.70	12.42	12.77	14.21
	6H	18.12	18.41	19.22	19.50	20.94	12.29	12.58	13.38	13.66	15.11
	8H	18.36	18.61	19.46	19.69	21.18	12.73	12.98	13.83	14.06	15.55