

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: P621562

Luminaire Tested: VLT-F-150U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621562
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-150U-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

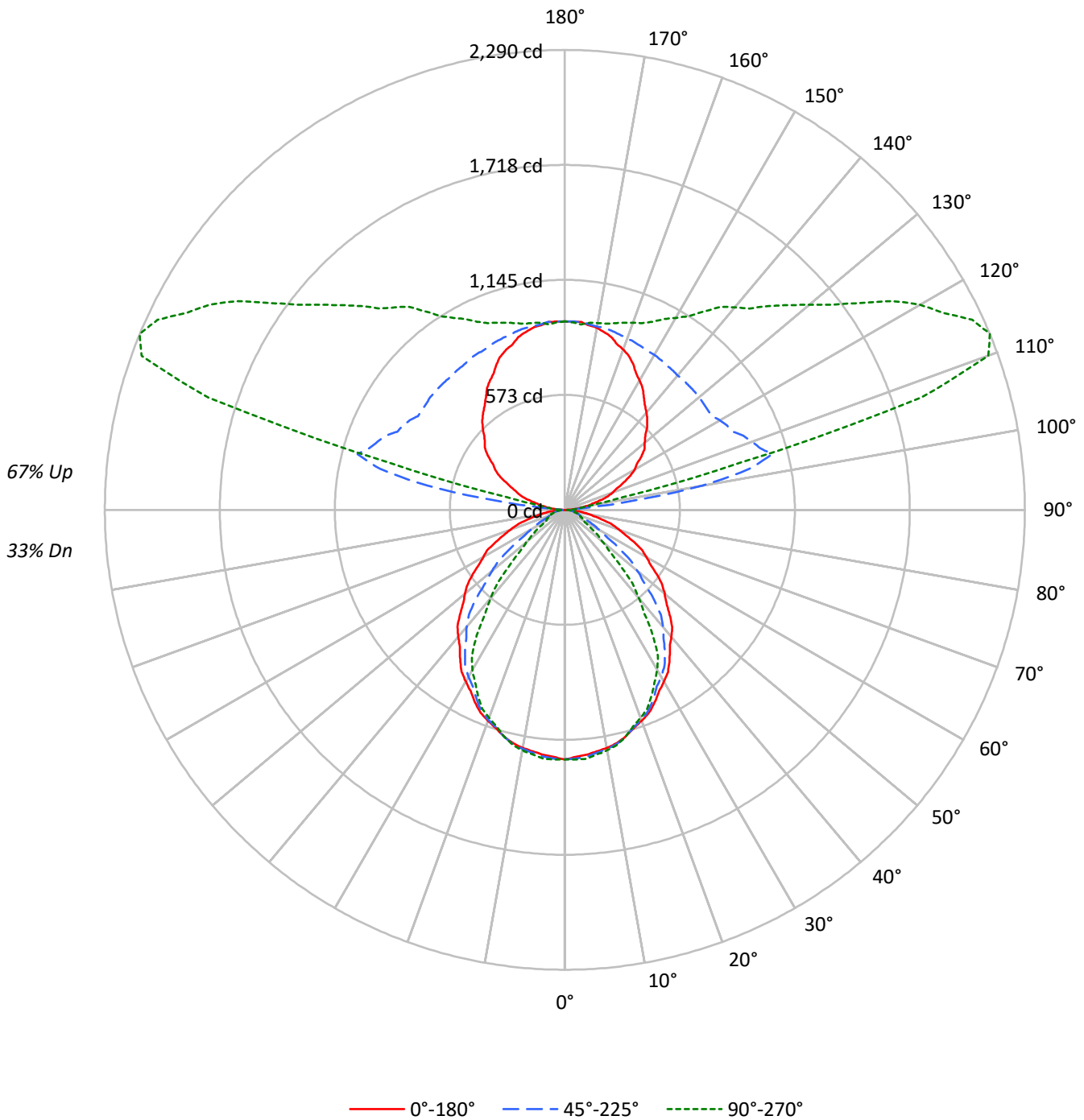
Lumens per Lamp: N/A
Luminaire Lumens: 7577.3 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 70.2
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: P621562
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Luminous Intensity Polar Plot





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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	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	95	91	87	84	85	82	79	76	66	64	62	51	49	48	37	36	35	29
2	86	80	74	69	78	72	67	63	58	55	52	45	43	41	33	32	31	25
3	79	70	63	58	71	64	58	53	52	47	44	40	37	35	30	28	27	22
4	73	62	55	49	65	57	50	45	46	41	38	36	33	30	27	25	23	19
5	67	56	48	42	60	51	44	39	41	37	33	33	29	27	24	22	21	17
6	61	50	42	37	55	46	39	34	37	32	29	30	26	23	22	20	18	15
7	57	45	38	32	51	41	35	30	34	29	25	27	23	21	20	18	16	14
8	53	41	34	29	48	38	31	27	31	26	23	25	21	19	19	17	15	12
9	49	37	30	26	44	34	28	24	28	24	20	23	19	17	17	15	13	11
10	46	34	27	23	41	32	25	21	26	21	18	21	18	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8916	8916	8916
5°	8821	8885	8959
10°	8772	8810	8857
15°	8677	8687	8687
20°	8538	8498	8419
25°	8374	8232	8090
30°	8178	7945	7626
35°	7960	7601	6690
40°	7731	7117	5386
45°	7489	6304	3908
50°	7236	5273	2708
55°	6985	4015	2023
60°	6724	2781	1528
65°	6429	1983	1569
70°	6005	1670	1616
75°	5551	1708	1636
80°	4827	1802	1698
85°	3911	2009	1688

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7489 cd/sqm



TEST NUMBER: P621562

CATALOG NUMBER: VLT-F-150U-075D-930-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	1.5
10°-20°	329.2	4.3
20°-30°	478.9	6.3
30°-40°	529.8	7.0
40°-50°	454.9	6.0
50°-60°	314.9	4.2
60°-70°	187.7	2.5
70°-80°	92.5	1.2
80°-90°	30.7	0.4
90°-100°	115.4	1.5
100°-110°	822.3	10.9
110°-120°	1116.3	14.7
120°-130°	908.6	12.0
130°-140°	730.8	9.6
140°-150°	576.1	7.6
150°-160°	421.3	5.6
160°-170°	261.7	3.5
170°-180°	89.2	1.2
0°-30°	925.2	12.2
0°-40°	1455.0	19.2
0°-60°	2224.8	29.4
0°-90°	2535.6	33.5
90°-120°	2054.0	27.1
90°-150°	4269.5	56.3
90°-180°	5042.0	66.5
0°-180°	7577.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1224	1243	1234	1232	1244	116
15°	1168	1183	1169	1163	1169	329
25°	1058	1065	1040	1022	1022	487
35°	909	906	868	798	764	568
45°	738	726	621	449	385	569
55°	558	534	321	184	162	499
65°	379	305	117	94	92	375
75°	200	87	62	60	59	211
85°	48	24	24	22	20	55
90°	0	6	12	18	18	4
95°	47	88	47	53	65	53
105°	183	281	1068	1365	903	193
115°	325	394	921	1914	2237	322
125°	466	530	868	1517	1794	414
135°	578	642	874	1250	1434	445
145°	685	742	880	1089	1204	430
155°	803	832	897	987	1033	369
165°	891	903	921	945	962	250
175°	939	944	939	932	927	89
180°	939	939	939	939	939	



TEST NUMBER: P621562

CATALOG NUMBER: VLT-F-150U-075D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.5	1242.5	1242.5	1242.5	1242.5
2.5°	1232.2	1246.2	1239.4	1239.5	1244.5
5°	1224.5	1243.3	1233.5	1232.4	1243.7
7.5°	1213.2	1230.5	1220.4	1219.1	1228.8
10°	1203.9	1220.3	1209.1	1206.7	1215.5
12.5°	1190.6	1206.9	1194.7	1190.3	1199.1
15°	1168.0	1183.1	1169.3	1163.0	1169.3
17.5°	1139.5	1152.1	1136.4	1126.5	1130.3
20°	1118.0	1130.5	1112.8	1098.8	1102.5
22.5°	1094.3	1104.9	1085.1	1069.0	1071.7
25°	1057.6	1065.2	1039.7	1021.7	1021.7
27.5°	1016.8	1021.3	991.7	972.8	967.5
30°	987.0	989.5	958.8	936.6	920.3
32.5°	956.2	957.7	922.9	887.1	861.8
35°	908.7	906.2	867.7	797.6	763.7
37.5°	858.2	852.6	807.1	700.4	650.0
40°	825.3	817.8	759.8	631.5	575.0
42.5°	791.4	780.9	707.5	560.5	498.0
45°	738.0	725.5	621.2	449.1	385.1
47.5°	685.1	668.6	532.9	347.9	292.9
50°	648.2	630.6	472.3	286.5	242.6
52.5°	611.2	593.6	410.7	240.5	205.6
55°	558.3	534.5	320.9	184.3	161.7
57.5°	504.4	470.3	239.0	143.6	126.0
60°	468.5	423.3	193.8	119.1	106.5
62.5°	433.6	376.3	158.9	103.9	101.4
65°	378.6	304.6	116.8	93.7	92.4
67.5°	326.3	232.4	86.8	84.4	83.2
70°	286.2	183.3	79.6	78.3	77.0
72.5°	250.3	140.3	72.4	71.1	69.8
75°	200.2	87.3	61.6	60.3	59.0
77.5°	149.7	55.0	50.8	49.5	48.3
80°	116.8	45.3	43.6	42.3	41.1
82.5°	88.0	36.6	35.4	34.1	32.9
85°	47.5	23.6	24.4	21.8	20.5
87.5°	16.4	12.6	13.7	12.8	11.8
90°	0.0	5.8	11.8	17.7	17.7
92.5°	14.2	19.9	26.0	36.7	41.3
95°	47.2	87.6	47.2	53.4	64.9
97.5°	83.8	168.1	347.1	102.4	88.5
100°	112.2	210.3	696.5	205.0	135.8
102.5°	140.5	243.2	942.1	541.0	296.3
105°	183.0	281.1	1068.4	1364.9	903.1
107.5°	225.5	299.4	1020.0	1986.4	1860.6
110°	253.8	323.1	991.7	2087.3	2243.1



TEST NUMBER: P621562

CATALOG NUMBER: VLT-F-150U-075D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	282.2	351.4	963.3	2028.3	2290.3
115°	324.7	393.9	920.8	1914.0	2237.2
117.5°	368.3	436.4	910.2	1790.2	2122.7
120°	401.4	464.9	891.3	1696.1	2042.4
122.5°	425.0	493.1	867.7	1615.2	1933.8
125°	466.3	529.8	867.7	1517.4	1794.5
127.5°	500.6	565.2	868.9	1404.0	1677.6
130°	519.5	588.7	873.6	1328.1	1587.9
132.5°	543.1	612.3	873.6	1294.0	1507.6
135°	578.5	642.0	873.6	1249.7	1434.4
137.5°	608.0	676.1	873.6	1200.7	1358.8
140°	631.6	695.1	873.6	1172.0	1316.3
142.5°	655.2	714.1	878.3	1138.8	1273.8
145°	684.7	742.4	879.5	1088.8	1204.2
147.5°	720.1	770.9	886.6	1052.7	1141.6
150°	743.8	789.9	891.3	1028.8	1103.8
152.5°	767.4	808.9	891.3	1009.6	1070.8
155°	802.8	831.6	897.2	986.8	1033.0
157.5°	831.1	858.8	904.3	972.4	1005.8
160°	850.0	873.1	909.0	962.8	991.7
162.5°	864.2	887.3	913.8	957.9	977.5
165°	891.3	902.9	920.8	944.9	962.2
167.5°	906.7	917.1	926.7	938.8	949.2
170°	920.8	926.6	926.7	938.7	944.5
172.5°	925.6	936.0	931.5	934.0	939.7
175°	938.6	944.3	938.6	932.5	926.7
177.5°	938.6	943.2	938.6	938.5	933.8
180°	938.6	938.6	938.6	938.6	938.6



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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	13.44	14.14	14.53	15.23	16.72	5.67	6.37	6.77	7.46	8.95
	3H	14.92	15.54	16.02	16.64	18.15	7.01	7.64	8.12	8.73	10.24
	4H	15.42	16.02	16.54	17.12	18.63	7.66	8.25	8.77	9.35	10.87
	6H	15.81	16.36	16.94	17.46	18.99	8.24	8.79	9.36	9.89	11.41
	8H	15.94	16.46	17.07	17.58	19.10	8.46	8.98	9.59	10.09	11.62
	12H	16.02	16.51	17.15	17.62	19.16	8.62	9.11	9.75	10.22	11.77
4H	2H	13.25	13.84	14.37	14.94	16.45	6.27	6.86	7.39	7.96	9.47
	3H	14.87	15.36	16.00	16.49	18.01	7.81	8.30	8.93	9.42	10.95
	4H	15.45	15.91	16.58	17.02	18.57	8.60	9.05	9.73	10.16	11.71
	6H	15.94	16.33	17.08	17.46	19.00	9.33	9.71	10.46	10.85	12.39
	8H	16.12	16.48	17.26	17.61	19.17	9.62	9.98	10.75	11.11	12.66
	12H	16.25	16.57	17.40	17.71	19.27	9.83	10.15	10.98	11.29	12.85
8H	4H	15.36	15.72	16.50	16.85	18.41	9.04	9.40	10.18	10.53	12.08
	6H	15.89	16.19	17.05	17.36	18.91	9.92	10.21	11.07	11.38	12.94
	8H	16.13	16.39	17.29	17.54	19.11	10.31	10.57	11.47	11.72	13.29
	12H	16.31	16.54	17.47	17.68	19.29	10.62	10.85	11.79	12.00	13.61
12H	4H	15.30	15.63	16.46	16.77	18.33	9.08	9.41	10.23	10.55	12.11
	6H	15.86	16.12	17.03	17.27	18.85	10.03	10.29	11.19	11.44	13.01
	8H	16.10	16.33	17.26	17.47	19.08	10.47	10.70	11.63	11.84	13.45