

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: P621539

Luminaire Tested: VLT-F-125U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621539
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-075D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

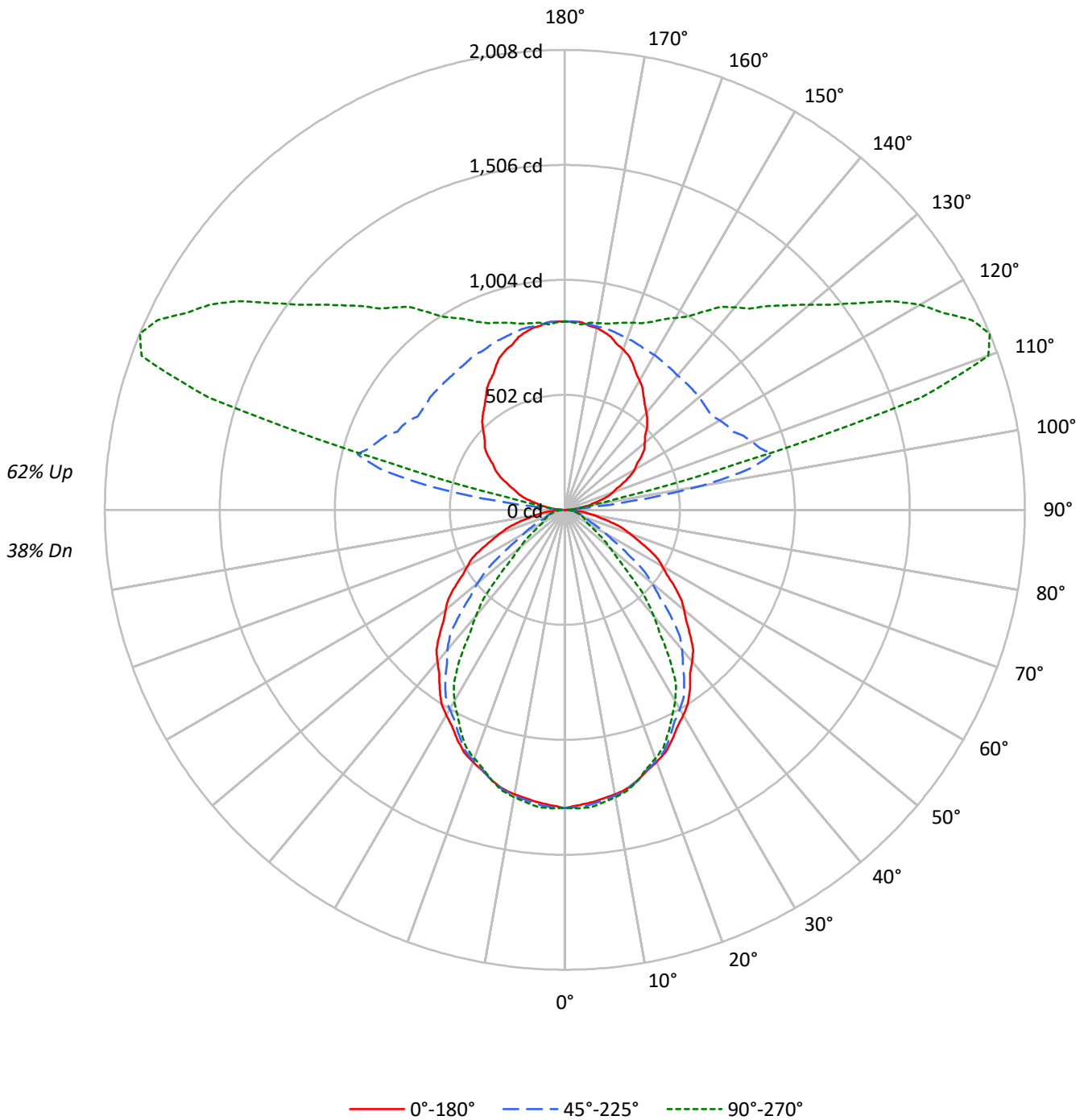
Lumens per Lamp: N/A
Luminaire Lumens: 7076.5 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 59.8
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



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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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38
1	96	91	88	85	87	83	80	77	68	66	64	53	52	51	40	39	39	33
2	87	80	75	70	79	73	68	64	60	57	54	48	45	43	36	35	33	28
3	80	71	64	59	72	65	59	54	53	49	46	42	40	37	32	31	29	25
4	73	63	56	50	67	58	51	46	48	43	39	38	35	32	29	27	25	22
5	68	57	49	43	61	52	45	40	43	38	34	34	31	28	27	24	23	19
6	62	51	43	38	56	47	40	35	39	34	30	31	28	25	24	22	20	17
7	58	46	38	33	52	42	36	31	35	30	27	29	25	22	22	20	18	15
8	54	42	34	29	49	38	32	27	32	27	24	26	23	20	21	18	16	14
9	50	38	31	26	45	35	29	25	29	25	21	24	21	18	19	17	15	13
10	47	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9344	9344	9344
5°	9243	9312	9389
10°	9194	9233	9282
15°	9094	9104	9104
20°	8947	8906	8824
25°	8776	8626	8478
30°	8571	8326	7992
35°	8342	7966	7011
40°	8102	7459	5645
45°	7849	6607	4095
50°	7584	5526	2838
55°	7320	4207	2121
60°	7047	2915	1602
65°	6738	2078	1644
70°	6294	1750	1693
75°	5817	1791	1716
80°	5058	1889	1777
85°	4100	2108	1770

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7849 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	1.7
10°-20°	345.0	4.9
20°-30°	501.9	7.1
30°-40°	555.2	7.8
40°-50°	476.7	6.7
50°-60°	330.1	4.7
60°-70°	196.7	2.8
70°-80°	96.9	1.4
80°-90°	31.8	0.4
90°-100°	101.2	1.4
100°-110°	720.8	10.2
110°-120°	978.6	13.8
120°-130°	796.5	11.3
130°-140°	640.6	9.1
140°-150°	505.0	7.1
150°-160°	369.3	5.2
160°-170°	229.4	3.2
170°-180°	78.2	1.1
0°-30°	969.6	13.7
0°-40°	1524.8	21.5
0°-60°	2331.6	32.9
0°-90°	2657.0	37.5
90°-120°	1800.6	25.4
90°-150°	3742.6	52.9
90°-180°	4419.0	62.4
0°-180°	7076.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1302	1302	1302	1302	1302	
5°	1283	1303	1293	1292	1303	122
15°	1224	1240	1225	1219	1225	345
25°	1108	1116	1090	1071	1071	510
35°	952	950	909	836	800	595
45°	773	760	651	471	404	597
55°	585	560	336	193	170	523
65°	397	319	122	98	97	393
75°	210	92	65	63	62	221
85°	50	25	26	23	22	58
90°	0	5	10	16	16	4
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1302.1	1302.1	1302.1	1302.1	1302.1
2.5°	1291.3	1306.0	1298.8	1299.0	1304.2
5°	1283.2	1303.0	1292.7	1291.6	1303.4
7.5°	1271.4	1289.6	1278.9	1277.6	1287.8
10°	1261.7	1278.8	1267.1	1264.6	1273.8
12.5°	1247.7	1264.8	1252.0	1247.4	1256.6
15°	1224.1	1239.8	1225.4	1218.8	1225.4
17.5°	1194.2	1207.4	1191.0	1180.6	1184.5
20°	1171.6	1184.8	1166.2	1151.5	1155.5
22.5°	1146.9	1157.9	1137.2	1120.3	1123.2
25°	1108.4	1116.3	1089.5	1070.7	1070.7
27.5°	1065.6	1070.3	1039.2	1019.5	1014.0
30°	1034.4	1037.0	1004.8	981.6	964.5
32.5°	1002.1	1003.7	967.1	929.7	903.1
35°	952.3	949.7	909.3	835.9	800.3
37.5°	899.3	893.6	845.8	734.0	681.2
40°	864.9	857.0	796.3	661.8	602.6
42.5°	829.4	818.4	741.4	587.4	521.9
45°	773.4	760.3	651.0	470.6	403.5
47.5°	718.0	700.7	558.5	364.6	307.0
50°	679.3	660.9	495.0	300.3	254.2
52.5°	640.5	622.1	430.4	252.1	215.5
55°	585.1	560.1	336.3	193.2	169.5
57.5°	528.6	492.9	250.5	150.5	132.1
60°	491.0	443.6	203.1	124.8	111.6
62.5°	454.4	394.4	166.5	108.9	106.3
65°	396.8	319.2	122.4	98.2	96.8
67.5°	341.9	243.6	90.9	88.5	87.2
70°	300.0	192.1	83.4	82.0	80.7
72.5°	262.3	147.1	75.9	74.5	73.2
75°	209.8	91.5	64.6	63.2	61.9
77.5°	156.8	57.7	53.3	51.9	50.6
80°	122.4	47.4	45.7	44.4	43.0
82.5°	92.3	38.4	37.1	35.8	34.4
85°	49.8	24.8	25.6	22.8	21.5
87.5°	17.2	13.0	13.9	12.8	11.7
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



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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



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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	14.09	14.82	15.16	15.88	17.32	6.33	7.05	7.39	8.11	9.56
	3H	15.58	16.22	16.65	17.30	18.76	7.67	8.32	8.75	9.39	10.85
	4H	16.08	16.70	17.17	17.77	19.24	8.32	8.93	9.40	10.00	11.47
	6H	16.47	17.04	17.57	18.11	19.59	8.90	9.46	10.00	10.54	12.02
	8H	16.60	17.14	17.70	18.23	19.70	9.12	9.66	10.22	10.75	12.22
	12H	16.68	17.19	17.78	18.27	19.77	9.28	9.79	10.39	10.88	12.37
4H	2H	13.91	14.52	15.00	15.59	17.06	6.93	7.54	8.02	8.61	10.08
	3H	15.53	16.04	16.63	17.14	18.62	8.47	8.98	9.57	10.08	11.56
	4H	16.12	16.58	17.22	17.67	19.17	9.26	9.72	10.36	10.81	12.32
	6H	16.60	17.00	17.71	18.12	19.61	9.99	10.39	11.10	11.50	13.00
	8H	16.79	17.16	17.90	18.27	19.77	10.28	10.65	11.39	11.76	13.27
	12H	16.91	17.25	18.04	18.37	19.88	10.49	10.83	11.62	11.95	13.46
8H	4H	16.02	16.40	17.13	17.50	19.01	9.70	10.08	10.81	11.18	12.69
	6H	16.55	16.86	17.69	18.01	19.52	10.58	10.89	11.71	12.04	13.54
	8H	16.79	17.06	17.93	18.19	19.71	10.98	11.24	12.11	12.37	13.90
	12H	16.97	17.21	18.11	18.33	19.90	11.29	11.53	12.43	12.65	14.21
12H	4H	15.97	16.31	17.10	17.42	18.94	9.75	10.08	10.87	11.20	12.72
	6H	16.53	16.80	17.67	17.92	19.45	10.70	10.96	11.83	12.09	13.62
	8H	16.76	17.00	17.91	18.12	19.69	11.13	11.37	12.27	12.49	14.06