

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: P621458

Luminaire Tested: VLT-F-075U-050D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621458
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-075U-050D-835-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4984.8 lumens
Efficiency: N/A
Efficacy: 141.6 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: Semi-Indirect

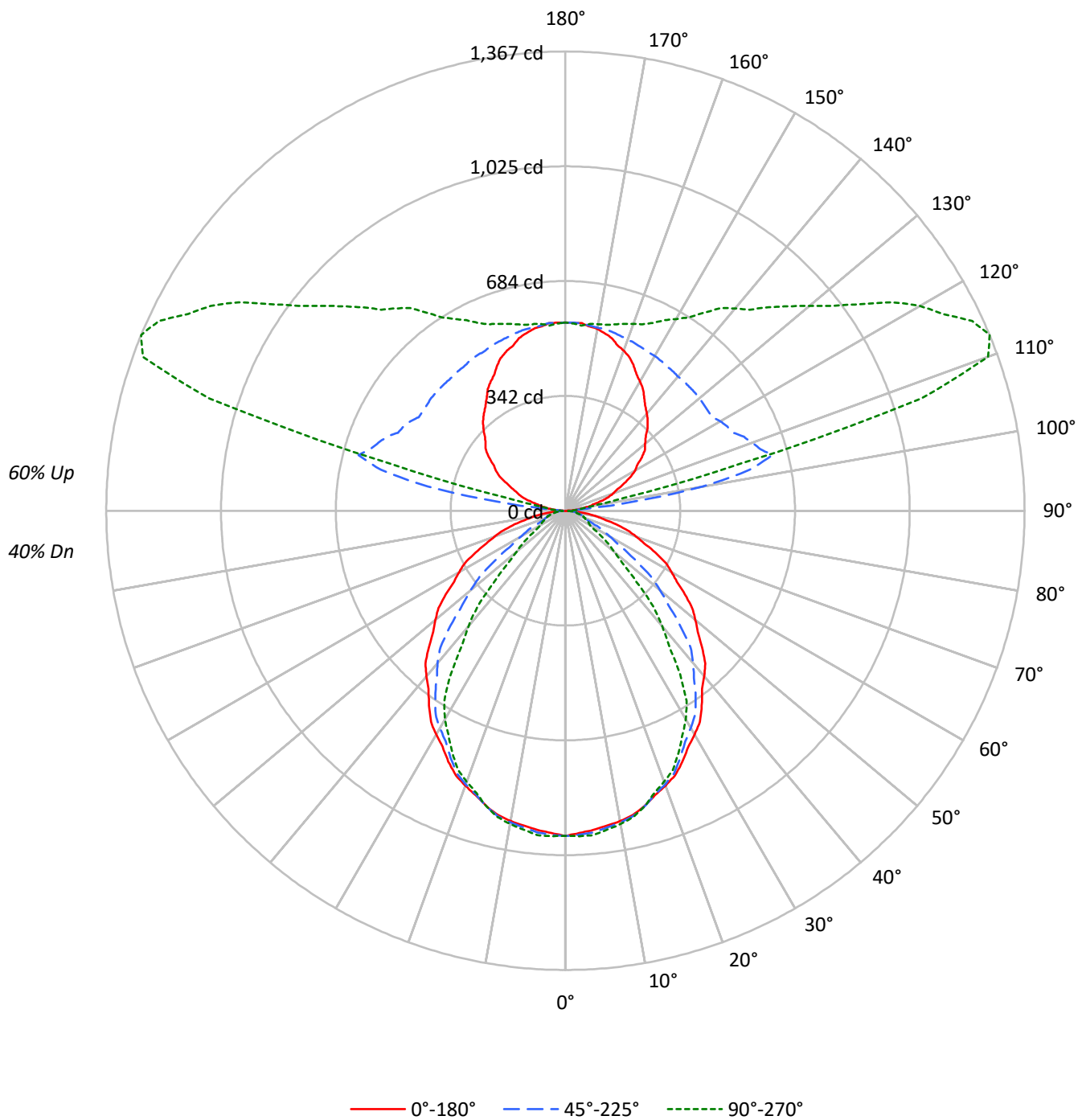
Input Watts (W): 35.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47
1	96	92	88	85	87	84	81	78	69	67	65	55	53	52	42	41	40
2	88	81	75	70	80	74	69	65	61	57	54	49	47	44	38	36	35
3	81	72	65	59	73	66	60	55	54	50	46	44	41	38	34	32	30
4	74	64	56	51	67	58	52	47	48	44	40	39	36	33	31	28	27
5	68	57	49	44	62	52	46	41	44	39	35	35	32	29	28	25	24
6	63	51	44	38	57	47	40	36	39	34	31	32	29	26	25	23	21
7	58	46	39	33	53	43	36	31	36	31	27	29	26	23	23	21	19
8	54	42	35	30	49	39	32	28	33	28	24	27	23	21	22	19	17
9	50	39	31	26	46	36	29	25	30	25	22	25	21	19	20	17	15
10	47	35	28	24	43	33	27	22	28	23	20	23	19	17	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6946	6946	6946
5°	6872	6922	6980
10°	6835	6864	6900
15°	6760	6768	6768
20°	6651	6621	6560
25°	6524	6413	6303
30°	6372	6190	5941
35°	6202	5922	5212
40°	6023	5546	4197
45°	5835	4912	3044
50°	5638	4108	2110
55°	5442	3128	1576
60°	5238	2167	1191
65°	5009	1545	1223
70°	4679	1301	1259
75°	4325	1331	1275
80°	3761	1405	1322
85°	3046	1564	1317

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5835 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.8
10°-20°	256.5	5.1
20°-30°	373.1	7.5
30°-40°	412.8	8.3
40°-50°	354.4	7.1
50°-60°	245.4	4.9
60°-70°	146.2	2.9
70°-80°	72.0	1.4
80°-90°	23.5	0.5
90°-100°	68.9	1.4
100°-110°	490.9	9.8
110°-120°	666.4	13.4
120°-130°	542.4	10.9
130°-140°	436.2	8.8
140°-150°	343.9	6.9
150°-160°	251.5	5.0
160°-170°	156.2	3.1
170°-180°	53.3	1.1
0°-30°	720.8	14.5
0°-40°	1133.6	22.7
0°-60°	1733.4	34.8
0°-90°	1975.2	39.6
90°-120°	1226.2	24.6
90°-150°	2548.7	51.1
90°-180°	3010.0	60.4
0°-180°	4984.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	968	968	968	968	968	
5°	954	969	961	960	969	91
15°	910	922	911	906	911	256
25°	824	830	810	796	796	379
35°	708	706	676	621	595	442
45°	575	565	484	350	300	444
55°	435	416	250	144	126	389
65°	295	237	91	73	72	292
75°	156	68	48	47	46	165
85°	37	18	19	17	16	43
90°	0	3	7	11	11	3
95°	28	52	28	32	39	32
105°	109	168	638	815	539	115
115°	194	235	550	1143	1336	192
125°	278	316	518	906	1071	247
135°	345	383	522	746	856	266
145°	409	443	525	650	719	257
155°	479	496	536	589	617	220
165°	532	539	550	564	574	149
175°	560	564	560	557	553	53
180°	560	560	560	560	560	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	968.0	968.0	968.0	968.0	968.0
2.5°	960.0	971.0	965.6	965.7	969.6
5°	954.0	968.7	961.0	960.2	969.0
7.5°	945.2	958.7	950.8	949.8	957.4
10°	938.0	950.7	942.0	940.2	947.0
12.5°	927.6	940.3	930.8	927.4	934.2
15°	910.0	921.7	911.0	906.1	911.0
17.5°	887.8	897.6	885.4	877.7	880.6
20°	871.0	880.8	867.0	856.1	859.0
22.5°	852.6	860.8	845.4	832.9	835.0
25°	824.0	829.9	810.0	796.0	796.0
27.5°	792.2	795.7	772.6	757.9	753.8
30°	769.0	771.0	747.0	729.7	717.0
32.5°	745.0	746.2	719.0	691.2	671.4
35°	708.0	706.0	676.0	621.4	595.0
37.5°	668.6	664.3	628.8	545.7	506.4
40°	643.0	637.1	592.0	492.0	448.0
42.5°	616.6	608.4	551.2	436.7	388.0
45°	575.0	565.2	484.0	349.9	300.0
47.5°	533.8	520.9	415.2	271.0	228.2
50°	505.0	491.3	368.0	223.2	189.0
52.5°	476.2	462.5	320.0	187.4	160.2
55°	435.0	416.4	250.0	143.6	126.0
57.5°	393.0	366.4	186.2	111.9	98.2
60°	365.0	329.8	151.0	92.8	83.0
62.5°	337.8	293.2	123.8	81.0	79.0
65°	295.0	237.3	91.0	73.0	72.0
67.5°	254.2	181.1	67.6	65.8	64.8
70°	223.0	142.8	62.0	61.0	60.0
72.5°	195.0	109.3	56.4	55.4	54.4
75°	156.0	68.0	48.0	47.0	46.0
77.5°	116.6	42.9	39.6	38.6	37.6
80°	91.0	35.3	34.0	33.0	32.0
82.5°	68.6	28.5	27.6	26.6	25.6
85°	37.0	18.4	19.0	17.0	16.0
87.5°	12.8	9.6	10.2	9.3	8.5
90°	0.0	3.4	7.0	10.6	10.6
92.5°	8.5	11.9	15.5	21.9	24.7
95°	28.2	52.3	28.2	31.9	38.8
97.5°	50.0	100.3	207.2	61.1	52.9
100°	67.0	125.5	415.8	122.4	81.0
102.5°	83.9	145.2	562.4	323.0	176.9
105°	109.2	167.8	637.8	814.8	539.1
107.5°	134.6	178.7	608.9	1185.8	1110.7
110°	151.5	192.9	592.0	1246.0	1339.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	168.4	209.8	575.1	1210.8	1367.2
115°	193.8	235.2	549.7	1142.6	1335.5
117.5°	219.9	260.5	543.4	1068.7	1267.1
120°	239.6	277.5	532.1	1012.5	1219.2
122.5°	253.7	294.4	518.0	964.2	1154.4
125°	278.4	316.3	518.0	905.8	1071.2
127.5°	298.8	337.4	518.7	838.1	1001.5
130°	310.1	351.4	521.5	792.8	947.9
132.5°	324.2	365.5	521.5	772.5	900.0
135°	345.3	383.2	521.5	746.0	856.3
137.5°	362.9	403.6	521.5	716.8	811.2
140°	377.0	414.9	521.5	699.7	785.8
142.5°	391.1	426.3	524.3	679.8	760.4
145°	408.8	443.2	525.0	649.9	718.8
147.5°	429.9	460.2	529.3	628.4	681.5
150°	444.0	471.6	532.1	614.2	658.9
152.5°	458.1	482.9	532.1	602.7	639.2
155°	479.2	496.5	535.6	589.1	616.7
157.5°	496.1	512.7	539.8	580.5	600.4
160°	507.4	521.2	542.7	574.8	592.0
162.5°	515.9	529.7	545.5	571.8	583.5
165°	532.1	539.0	549.7	564.0	574.4
167.5°	541.2	547.5	553.2	560.4	566.6
170°	549.7	553.2	553.2	560.4	563.8
172.5°	552.5	558.7	556.0	557.5	561.0
175°	560.3	563.7	560.3	556.7	553.2
177.5°	560.3	563.0	560.3	560.2	557.5
180°	560.3	560.3	560.3	560.3	560.3



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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	13.30	14.04	14.35	15.09	16.50	5.53	6.27	6.58	7.32	8.74
	3H	14.78	15.44	15.84	16.50	17.93	6.88	7.54	7.94	8.59	10.03
	4H	15.29	15.91	16.36	16.97	18.42	7.52	8.15	8.60	9.21	10.65
	6H	15.68	16.26	16.76	17.32	18.77	8.11	8.68	9.19	9.75	11.20
	8H	15.81	16.36	16.89	17.43	18.88	8.33	8.88	9.42	9.96	11.40
	12H	15.89	16.40	16.98	17.48	18.95	8.49	9.01	9.58	10.08	11.55
4H	2H	13.11	13.74	14.19	14.80	16.24	6.13	6.76	7.21	7.82	9.26
	3H	14.74	15.26	15.82	16.34	17.80	7.68	8.19	8.76	9.28	10.74
	4H	15.32	15.80	16.41	16.88	18.35	8.47	8.94	9.56	10.02	11.50
	6H	15.81	16.22	16.91	17.32	18.79	9.20	9.61	10.30	10.71	12.18
	8H	16.00	16.38	17.09	17.47	18.95	9.49	9.87	10.59	10.96	12.45
	12H	16.12	16.46	17.23	17.57	19.06	9.70	10.05	10.82	11.15	12.64
8H	4H	15.23	15.61	16.33	16.71	18.19	8.91	9.29	10.01	10.38	11.87
	6H	15.76	16.08	16.88	17.21	18.69	9.79	10.10	10.91	11.24	12.72
	8H	16.00	16.27	17.13	17.39	18.89	10.19	10.46	11.31	11.58	13.08
	12H	16.18	16.42	17.31	17.54	19.08	10.50	10.74	11.63	11.86	13.40
12H	4H	15.18	15.52	16.29	16.63	18.12	8.96	9.30	10.07	10.41	11.89
	6H	15.74	16.01	16.86	17.13	18.63	9.91	10.18	11.03	11.30	12.80
	8H	15.97	16.22	17.10	17.33	18.87	10.34	10.59	11.47	11.70	13.24

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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