

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: P621867

Luminaire Tested: VLT-FB-125U-050D-840-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621867
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-19)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-FB-125U-050D-840-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

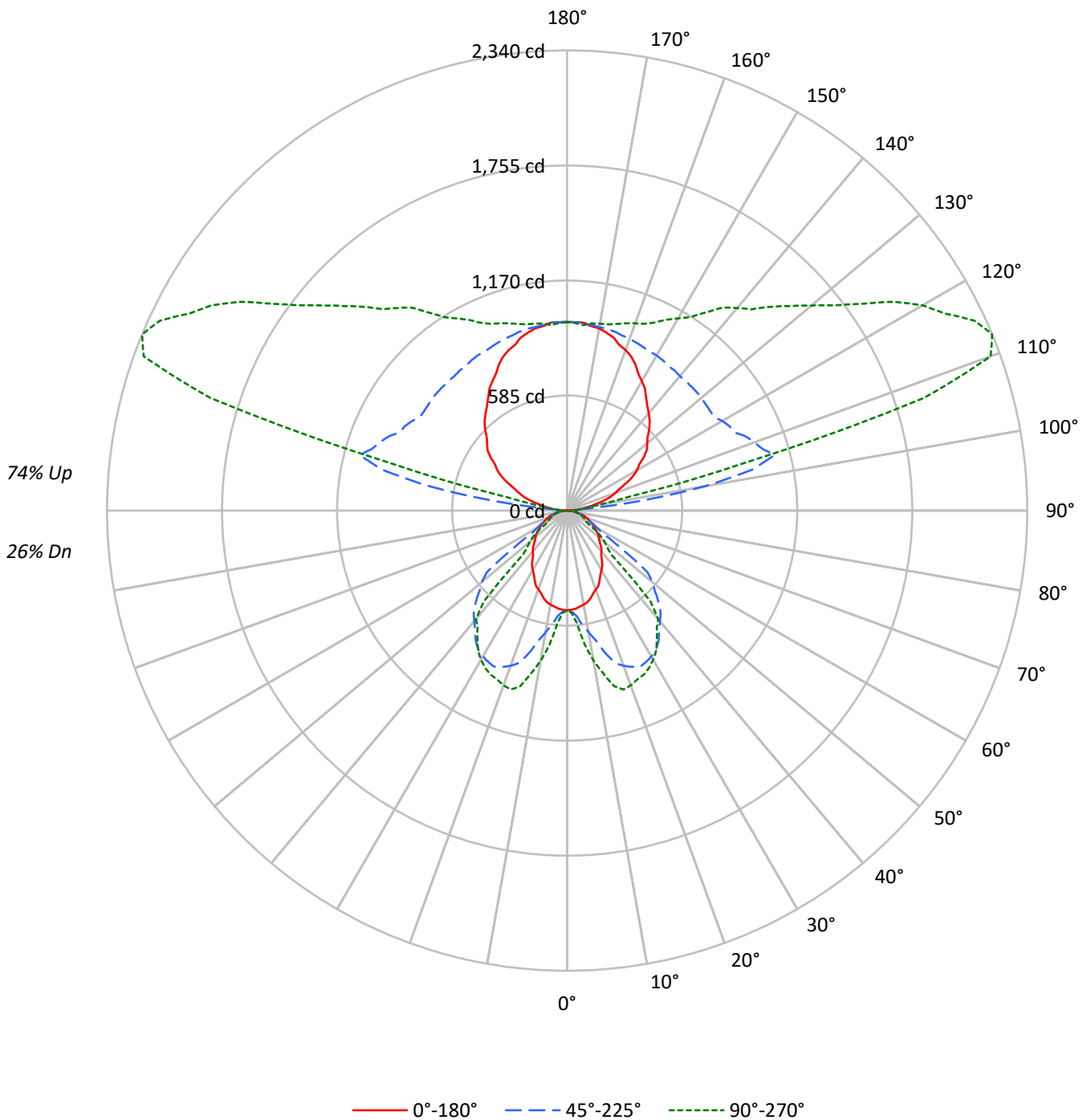
Lumens per Lamp: N/A
Luminaire Lumens: 6968.3 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 52.6
Input Voltage (V): 120
Input Current (A_{in}): 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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26				
1	93	89	85	82	83	79	76	74	62	60	58	46	44	43	31	30	29	23				
2	85	78	72	67	75	70	65	61	54	51	48	40	38	37	27	26	25	19				
3	77	69	62	56	69	61	56	51	48	44	41	36	33	31	24	23	22	17				
4	71	61	53	48	63	55	48	43	43	38	35	32	29	27	22	20	19	15				
5	65	54	46	41	58	49	42	37	38	34	30	29	26	23	20	18	17	13				
6	60	48	41	35	53	44	37	32	34	30	26	26	23	20	18	16	15	11				
7	55	44	36	31	49	39	33	28	31	26	23	24	20	18	16	15	13	10				
8	51	39	32	27	46	36	29	25	28	24	20	22	18	16	15	13	12	9				
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	10	8				
10	44	33	26	21	39	30	24	20	24	19	16	18	15	13	13	11	9	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3636	3636	3636
5°	3605	3865	4139
10°	3534	4570	5643
15°	3428	5570	6870
20°	3264	6417	7220
25°	3090	6939	7290
30°	2893	7100	7253
35°	2697	7100	6964
40°	2537	6879	6743
45°	2414	6667	3229
50°	2346	6312	2782
55°	2281	4226	2203
60°	2217	2572	1596
65°	2168	1958	1661
70°	2140	1708	1708
75°	2085	1769	1713
80°	1831	1789	1703
85°	1359	1869	1614

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6667 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	0.8
10°-20°	201.5	2.9
20°-30°	341.2	4.9
30°-40°	413.9	5.9
40°-50°	364.3	5.2
50°-60°	225.5	3.2
60°-70°	122.2	1.8
70°-80°	69.6	1.0
80°-90°	24.9	0.4
90°-100°	117.9	1.7
100°-110°	840.0	12.1
110°-120°	1140.5	16.4
120°-130°	928.2	13.3
130°-140°	746.5	10.7
140°-150°	588.6	8.4
150°-160°	430.4	6.2
160°-170°	267.3	3.8
170°-180°	91.2	1.3
0°-30°	597.3	8.6
0°-40°	1011.2	14.5
0°-60°	1601.0	23.0
0°-90°	1817.9	26.1
90°-120°	2098.4	30.1
90°-150°	4361.7	62.6
90°-180°	5150.0	73.9
0°-180°	6968.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	500	517	536	560	575	47
15°	461	532	750	886	925	129
25°	390	534	876	902	921	179
35°	308	495	810	799	795	193
45°	238	407	657	557	318	185
55°	182	284	338	195	176	163
65°	128	160	115	99	98	127
75°	75	66	64	63	62	79
85°	16	22	23	21	20	20
90°	0	6	12	18	18	3
95°	48	90	48	54	66	54
105°	187	287	1092	1394	923	197
115°	332	402	941	1955	2286	329
125°	476	541	886	1550	1833	423
135°	591	656	892	1277	1465	455
145°	700	758	898	1112	1230	439
155°	820	850	917	1008	1055	376
165°	911	922	941	965	983	256
175°	959	965	959	953	947	91
180°	959	959	959	959	959	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	506.7	506.7	506.7	506.7	506.7
2.5°	505.0	510.7	513.3	518.3	520.7
5°	500.5	516.6	536.5	559.5	574.6
7.5°	492.5	521.3	584.3	656.9	687.9
10°	485.0	524.3	627.2	732.1	774.4
12.5°	476.8	527.4	677.4	804.6	847.7
15°	461.4	531.8	749.7	886.5	924.8
17.5°	441.4	534.6	812.3	929.9	954.4
20°	427.4	535.1	840.3	935.3	945.4
22.5°	414.2	535.6	860.1	922.1	930.5
25°	390.3	534.3	876.4	902.5	920.7
27.5°	366.4	528.3	868.3	889.4	902.5
30°	349.1	522.3	856.8	874.3	875.3
32.5°	332.6	512.3	839.5	844.6	843.2
35°	307.9	495.2	810.5	799.0	795.0
37.5°	284.8	472.5	768.0	749.7	748.7
40°	270.8	456.1	734.3	716.8	719.8
42.5°	257.7	437.3	703.8	683.3	626.7
45°	237.9	407.1	657.0	556.9	318.2
47.5°	220.8	372.6	604.1	298.3	273.9
50°	210.1	349.0	565.4	262.3	249.2
52.5°	199.4	327.0	515.1	235.8	218.7
55°	182.3	284.0	337.8	195.2	176.1
57.5°	166.0	238.7	206.4	151.7	131.0
60°	154.5	211.9	179.2	122.3	111.2
62.5°	143.8	189.9	152.8	108.5	106.3
65°	127.7	159.9	115.3	98.8	97.8
67.5°	112.7	131.4	87.9	89.0	87.9
70°	102.0	111.0	81.4	82.4	81.4
72.5°	92.1	91.5	74.8	74.1	73.1
75°	75.2	66.1	63.8	62.8	61.8
77.5°	57.5	48.8	51.5	50.4	49.4
80°	44.3	41.3	43.3	42.2	41.2
82.5°	32.7	33.8	35.0	33.1	32.1
85°	16.5	22.5	22.7	20.6	19.6
87.5°	4.9	11.0	11.5	11.0	10.2
90°	0.0	5.9	12.1	18.1	18.1
92.5°	14.5	20.4	26.5	37.5	42.2
95°	48.2	89.5	48.2	54.5	66.3
97.5°	85.6	171.7	354.6	104.6	90.5
100°	114.6	214.8	711.6	209.5	138.7
102.5°	143.5	248.5	962.4	552.7	302.7
105°	186.9	287.2	1091.5	1394.3	922.6
107.5°	230.4	305.8	1042.0	2029.3	1900.7
110°	259.3	330.1	1013.1	2132.3	2291.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	359.0	984.1	2072.1	2339.7
115°	331.7	402.4	940.7	1955.3	2285.5
117.5°	376.3	445.9	929.9	1828.9	2168.5
120°	410.1	474.9	910.6	1732.7	2086.5
122.5°	434.2	503.8	886.4	1650.0	1975.5
125°	476.4	541.2	886.4	1550.2	1833.2
127.5°	511.4	577.4	887.7	1434.3	1713.8
130°	530.7	601.4	892.5	1356.8	1622.1
132.5°	554.8	625.5	892.5	1322.0	1540.1
135°	591.0	655.8	892.5	1276.7	1465.4
137.5°	621.1	690.7	892.5	1226.6	1388.2
140°	645.2	710.1	892.5	1197.3	1344.7
142.5°	669.4	729.5	897.3	1163.4	1301.3
145°	699.5	758.5	898.5	1112.2	1230.2
147.5°	735.7	787.6	905.7	1075.5	1166.3
150°	759.8	807.0	910.6	1051.0	1127.7
152.5°	783.9	826.4	910.6	1031.4	1093.9
155°	820.1	849.6	916.6	1008.1	1055.3
157.5°	849.1	877.4	923.8	993.4	1027.6
160°	868.4	891.9	928.7	983.6	1013.1
162.5°	882.8	906.4	933.5	978.6	998.6
165°	910.6	922.4	940.7	965.2	982.9
167.5°	926.2	936.9	946.8	959.1	969.7
170°	940.7	946.6	946.8	958.9	964.8
172.5°	945.5	956.2	951.6	954.1	960.0
175°	958.8	964.7	958.8	952.6	946.8
177.5°	958.8	963.5	958.8	958.7	954.0
180°	958.8	958.8	958.8	958.8	958.8

(END OF REPORT)