

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: P621879

Luminaire Tested: VLT-FB-125U-100D-840-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621879
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-100D-840-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

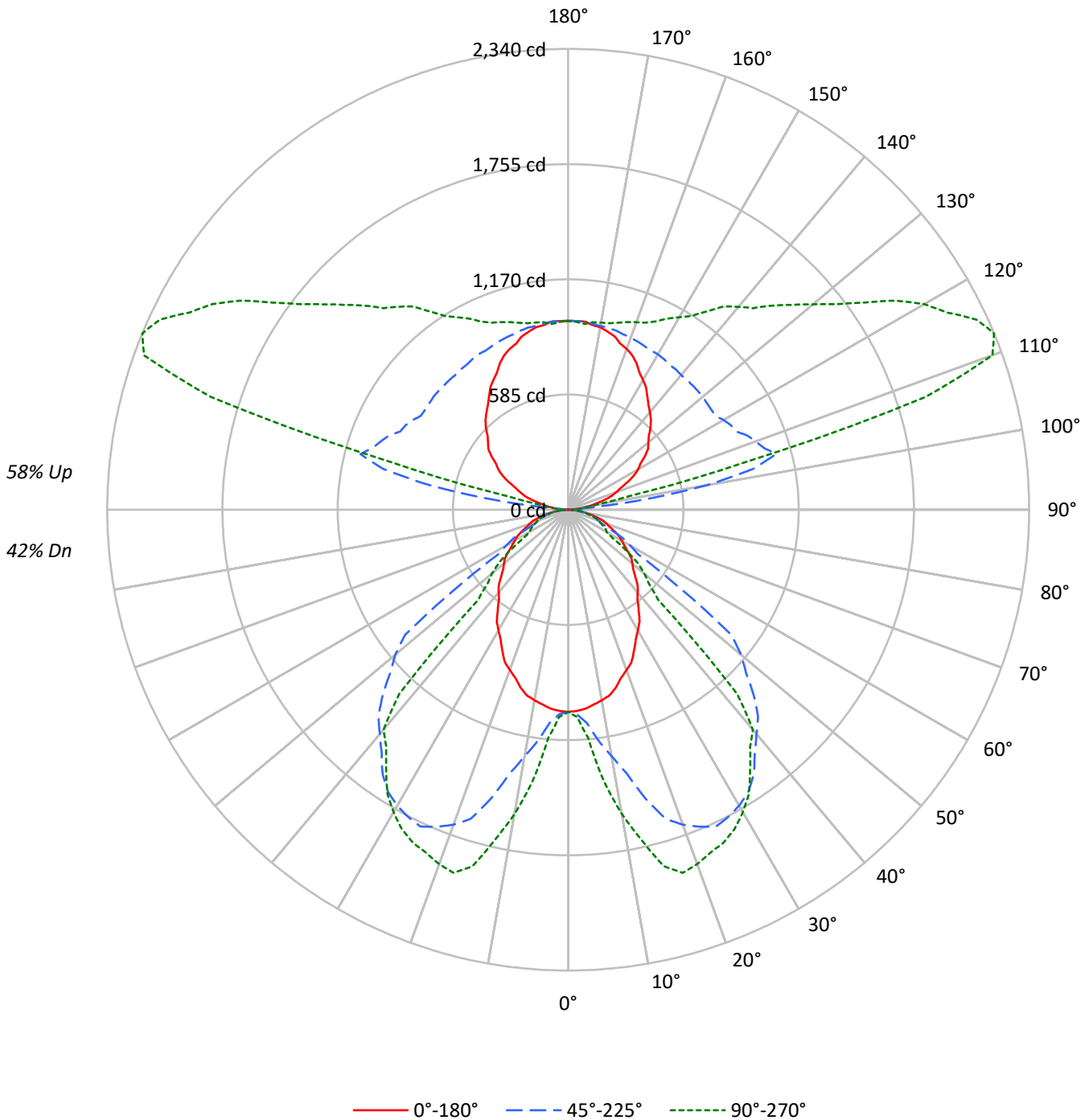
Lumens per Lamp: N/A
Luminaire Lumens: 8830.7 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 67.4
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	42				
1	96	92	89	85	88	84	81	79	70	68	66	56	55	53	44	43	42	36				
2	88	81	75	71	80	74	69	65	62	58	55	50	47	45	39	37	36	31				
3	81	72	65	59	74	66	60	55	55	50	47	45	41	39	35	33	31	27				
4	74	64	56	50	67	59	52	47	49	44	40	40	36	34	32	29	27	23				
5	68	57	49	43	62	52	46	41	44	39	35	36	32	29	29	26	24	21				
6	63	51	43	38	57	47	40	35	40	34	31	33	29	26	26	23	21	18				
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	20	17	15	13				
10	47	35	28	23	43	32	26	22	27	23	19	23	19	16	19	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7365	7365	7365
5°	7303	7829	8385
10°	7159	9257	11431
15°	6943	11283	13917
20°	6611	12999	14624
25°	6260	14056	14766
30°	5860	14381	14693
35°	5464	14382	14107
40°	5139	13933	13660
45°	4890	13506	6542
50°	4751	12786	5635
55°	4619	8560	4463
60°	4491	5210	3233
65°	4393	3966	3365
70°	4333	3458	3458
75°	4223	3585	3471
80°	3707	3620	3446
85°	2750	3779	3260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 13506 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	1.3
10°-20°	408.1	4.6
20°-30°	691.2	7.8
30°-40°	838.5	9.5
40°-50°	738.0	8.4
50°-60°	456.7	5.2
60°-70°	247.6	2.8
70°-80°	141.1	1.6
80°-90°	48.3	0.5
90°-100°	117.9	1.3
100°-110°	840.0	9.5
110°-120°	1140.5	12.9
120°-130°	928.2	10.5
130°-140°	746.5	8.5
140°-150°	588.6	6.7
150°-160°	430.4	4.9
160°-170°	267.3	3.0
170°-180°	91.2	1.0
0°-30°	1210.0	13.7
0°-40°	2048.5	23.2
0°-60°	3243.2	36.7
0°-90°	3680.2	41.7
90°-120°	2098.4	23.8
90°-150°	4361.7	49.4
90°-180°	5150.0	58.3
0°-180°	8830.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1014	1046	1087	1133	1164	96
15°	935	1077	1519	1796	1873	262
25°	791	1082	1775	1828	1865	363
35°	624	1003	1642	1619	1610	391
45°	482	825	1331	1128	645	374
55°	369	575	684	396	357	331
65°	259	324	234	200	198	257
75°	152	134	129	127	125	159
85°	33	46	46	42	40	41
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°	1026.3	1026.3	1026.3	1026.3	1026.3
2.5°	1023.0	1034.4	1039.7	1049.8	1054.7
5°	1013.8	1046.5	1086.8	1133.4	1164.0
7.5°	997.6	1055.9	1183.6	1330.7	1393.5
10°	982.5	1062.1	1270.4	1483.1	1568.7
12.5°	965.9	1068.2	1372.2	1630.0	1717.3
15°	934.6	1077.3	1518.7	1795.8	1873.3
17.5°	894.1	1083.0	1645.5	1883.6	1933.4
20°	865.7	1084.0	1702.2	1894.6	1915.0
22.5°	839.0	1085.0	1742.3	1867.8	1885.0
25°	790.6	1082.3	1775.2	1828.2	1864.9
27.5°	742.2	1070.2	1759.0	1801.7	1828.2
30°	707.2	1058.0	1735.6	1771.1	1773.2
32.5°	673.8	1037.7	1700.6	1710.9	1708.1
35°	623.7	1003.1	1641.7	1618.6	1610.4
37.5°	577.0	957.2	1555.8	1518.6	1516.6
40°	548.6	923.9	1487.4	1452.0	1458.2
42.5°	521.9	885.8	1425.6	1384.2	1269.6
45°	481.9	824.6	1330.9	1128.0	644.6
47.5°	447.3	754.8	1223.7	604.3	554.9
50°	425.6	707.0	1145.3	531.3	504.8
52.5°	403.9	662.5	1043.5	477.8	443.1
55°	369.2	575.2	684.2	395.5	356.7
57.5°	336.3	483.5	418.0	307.4	265.3
60°	312.9	429.2	363.0	247.7	225.3
62.5°	291.2	384.6	309.6	219.8	215.3
65°	258.7	323.9	233.6	200.2	198.2
67.5°	228.2	266.2	178.2	180.2	178.2
70°	206.5	224.9	164.8	166.8	164.8
72.5°	186.5	185.3	151.4	150.2	148.1
75°	152.3	133.9	129.3	127.2	125.2
77.5°	116.4	98.9	104.3	102.2	100.1
80°	89.7	83.6	87.6	85.5	83.4
82.5°	66.3	68.4	70.9	67.1	65.1
85°	33.4	45.6	45.9	41.7	39.6
87.5°	10.0	21.0	20.8	18.6	17.0
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)