

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: P621860

Luminaire Tested: VLT-FB-100U-125D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621860
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-100U-125D-835-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

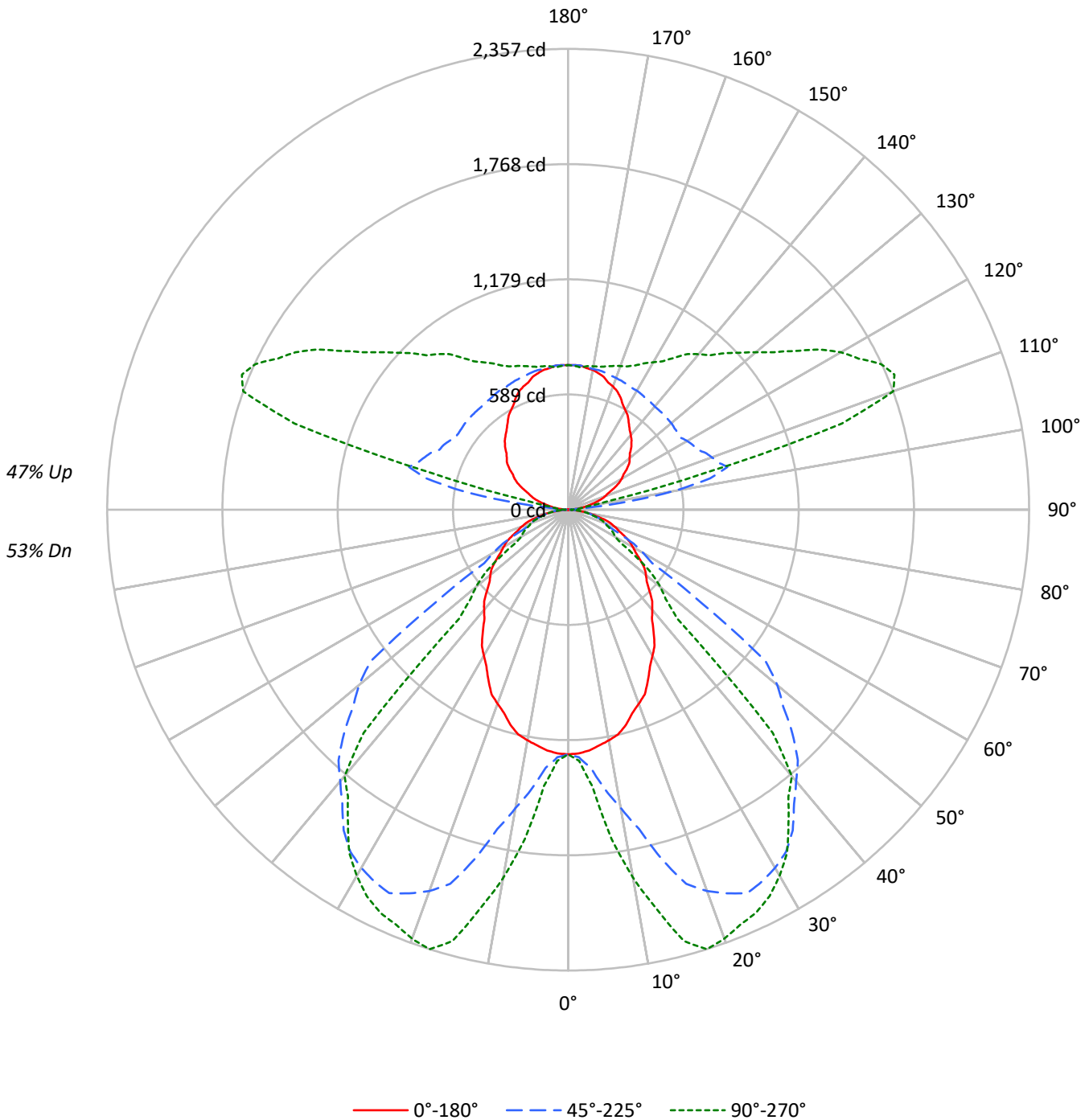
Lumens per Lamp: N/A
Luminaire Lumens: 8460.8 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 67.7
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	84	78	73	84	78	73	69	67	63	60	57	54	52	47	46	44	40
3	83	74	67	62	77	69	63	58	60	55	51	51	47	45	43	40	38	34
4	76	66	58	53	71	62	55	50	53	48	44	46	42	39	38	36	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26
6	65	53	45	40	60	50	43	38	43	38	34	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	30	26	31	27	24	27	23	21	18
9	52	40	32	27	48	37	31	26	33	27	24	29	24	21	25	21	19	17
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8979	8979	8979
5°	8903	9544	10222
10°	8729	11286	13936
15°	8465	13755	16967
20°	8060	15848	17829
25°	7632	17136	18003
30°	7144	17533	17913
35°	6661	17534	17200
40°	6266	16986	16653
45°	5962	16467	7976
50°	5792	15587	6871
55°	5632	10437	5441
60°	5475	6351	3942
65°	5355	4836	4102
70°	5283	4215	4215
75°	5149	4372	4231
80°	4521	4413	4203
85°	3351	4611	3977

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16467 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	1.6
10°-20°	497.5	5.9
20°-30°	842.7	10.0
30°-40°	1022.3	12.1
40°-50°	899.8	10.6
50°-60°	556.8	6.6
60°-70°	301.9	3.6
70°-80°	172.0	2.0
80°-90°	57.9	0.7
90°-100°	91.0	1.1
100°-110°	648.3	7.7
110°-120°	880.2	10.4
120°-130°	716.4	8.5
130°-140°	576.2	6.8
140°-150°	454.2	5.4
150°-160°	332.1	3.9
160°-170°	206.3	2.4
170°-180°	70.3	0.8
0°-30°	1475.2	17.4
0°-40°	2497.4	29.5
0°-60°	3954.0	46.7
0°-90°	4485.8	53.0
90°-120°	1619.5	19.1
90°-150°	3366.3	39.8
90°-180°	3975.0	47.0
0°-180°	8460.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1236	1276	1325	1382	1419	117
15°	1139	1313	1852	2189	2284	319
25°	964	1320	2164	2229	2274	443
35°	760	1223	2002	1973	1963	477
45°	588	1005	1623	1375	786	456
55°	450	701	834	482	435	403
65°	315	395	285	244	242	313
75°	186	163	158	155	153	194
85°	41	56	56	51	48	50
90°	0	5	9	14	14	3
95°	37	69	37	42	51	42
105°	144	222	842	1076	712	152
115°	256	311	726	1509	1764	254
125°	368	418	684	1196	1415	327
135°	456	506	689	985	1131	351
145°	540	585	693	858	949	339
155°	633	656	707	778	814	291
165°	703	712	726	745	759	197
175°	740	744	740	735	731	70
180°	740	740	740	740	740	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.3	1251.3	1251.3	1251.3	1251.3
2.5°	1247.2	1261.1	1267.6	1279.9	1285.9
5°	1236.0	1275.8	1325.0	1381.8	1419.1
7.5°	1216.2	1287.3	1443.0	1622.3	1698.9
10°	1197.9	1294.9	1548.8	1808.1	1912.5
12.5°	1177.5	1302.4	1673.0	1987.2	2093.6
15°	1139.4	1313.4	1851.5	2189.3	2283.8
17.5°	1090.0	1320.3	2006.1	2296.4	2357.1
20°	1055.4	1321.5	2075.3	2309.8	2334.7
22.5°	1022.9	1322.8	2124.1	2277.2	2298.1
25°	963.9	1319.5	2164.3	2228.9	2273.7
27.5°	904.9	1304.8	2144.5	2196.6	2228.9
30°	862.2	1289.9	2116.0	2159.3	2161.8
32.5°	821.5	1265.1	2073.3	2085.9	2082.4
35°	760.4	1223.0	2001.5	1973.3	1963.4
37.5°	703.5	1167.0	1896.8	1851.4	1848.9
40°	668.9	1126.4	1813.3	1770.3	1777.7
42.5°	636.3	1080.0	1738.1	1687.6	1547.8
45°	587.5	1005.3	1622.6	1375.2	785.9
47.5°	545.3	920.3	1491.9	736.7	676.5
50°	518.8	862.0	1396.2	647.8	615.5
52.5°	492.4	807.7	1272.1	582.5	540.2
55°	450.2	701.3	834.2	482.1	434.9
57.5°	410.0	589.5	509.7	374.7	323.5
60°	381.5	523.2	442.5	302.0	274.7
62.5°	355.0	468.9	377.4	267.9	262.5
65°	315.4	394.9	284.8	244.1	241.6
67.5°	278.2	324.5	217.2	219.7	217.2
70°	251.8	274.2	200.9	203.4	200.9
72.5°	227.4	225.9	184.6	183.1	180.6
75°	185.7	163.3	157.7	155.1	152.6
77.5°	141.9	120.5	127.2	124.6	122.1
80°	109.4	101.9	106.8	104.2	101.7
82.5°	80.9	83.4	86.5	81.8	79.3
85°	40.7	55.6	56.0	50.8	48.3
87.5°	12.2	25.1	24.2	21.1	19.1
90°	0.0	4.6	9.3	14.0	14.0
92.5°	11.2	15.7	20.5	28.9	32.6
95°	37.2	69.1	37.2	42.1	51.2
97.5°	66.1	132.5	273.7	80.7	69.8
100°	88.4	165.8	549.2	161.6	107.0
102.5°	110.8	191.8	742.8	426.6	233.6
105°	144.3	221.6	842.4	1076.1	712.1
107.5°	177.8	236.0	804.2	1566.2	1466.9
110°	200.1	254.7	781.9	1645.7	1768.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.5	277.1	759.5	1599.2	1805.8
115°	256.0	310.6	726.0	1509.0	1763.9
117.5°	290.4	344.1	717.7	1411.5	1673.6
120°	316.5	366.5	702.8	1337.3	1610.3
122.5°	335.1	388.8	684.1	1273.5	1524.7
125°	367.7	417.7	684.1	1196.4	1414.8
127.5°	394.7	445.6	685.1	1107.0	1322.7
130°	409.6	464.2	688.8	1047.2	1251.9
132.5°	428.2	482.8	688.8	1020.3	1188.6
135°	456.1	506.2	688.8	985.3	1130.9
137.5°	479.4	533.1	688.8	946.7	1071.4
140°	498.0	548.0	688.8	924.1	1037.8
142.5°	516.6	563.0	692.5	897.9	1004.3
145°	539.9	585.4	693.4	858.4	949.4
147.5°	567.8	607.8	699.0	830.0	900.1
150°	586.4	622.8	702.8	811.1	870.3
152.5°	605.0	637.8	702.8	796.0	844.2
155°	632.9	655.7	707.4	778.0	814.5
157.5°	655.3	677.1	713.0	766.7	793.0
160°	670.2	688.4	716.7	759.1	781.9
162.5°	681.3	699.6	720.4	755.2	770.7
165°	702.8	711.9	726.0	745.0	758.6
167.5°	714.9	723.0	730.7	740.2	748.4
170°	726.0	730.6	730.7	740.1	744.6
172.5°	729.8	737.9	734.4	736.4	740.9
175°	740.0	744.5	740.0	735.2	730.7
177.5°	740.0	743.6	740.0	739.9	736.3
180°	740.0	740.0	740.0	740.0	740.0

(END OF REPORT)