

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: P621864

Luminaire Tested: VLT-FB-100U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621864
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-940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

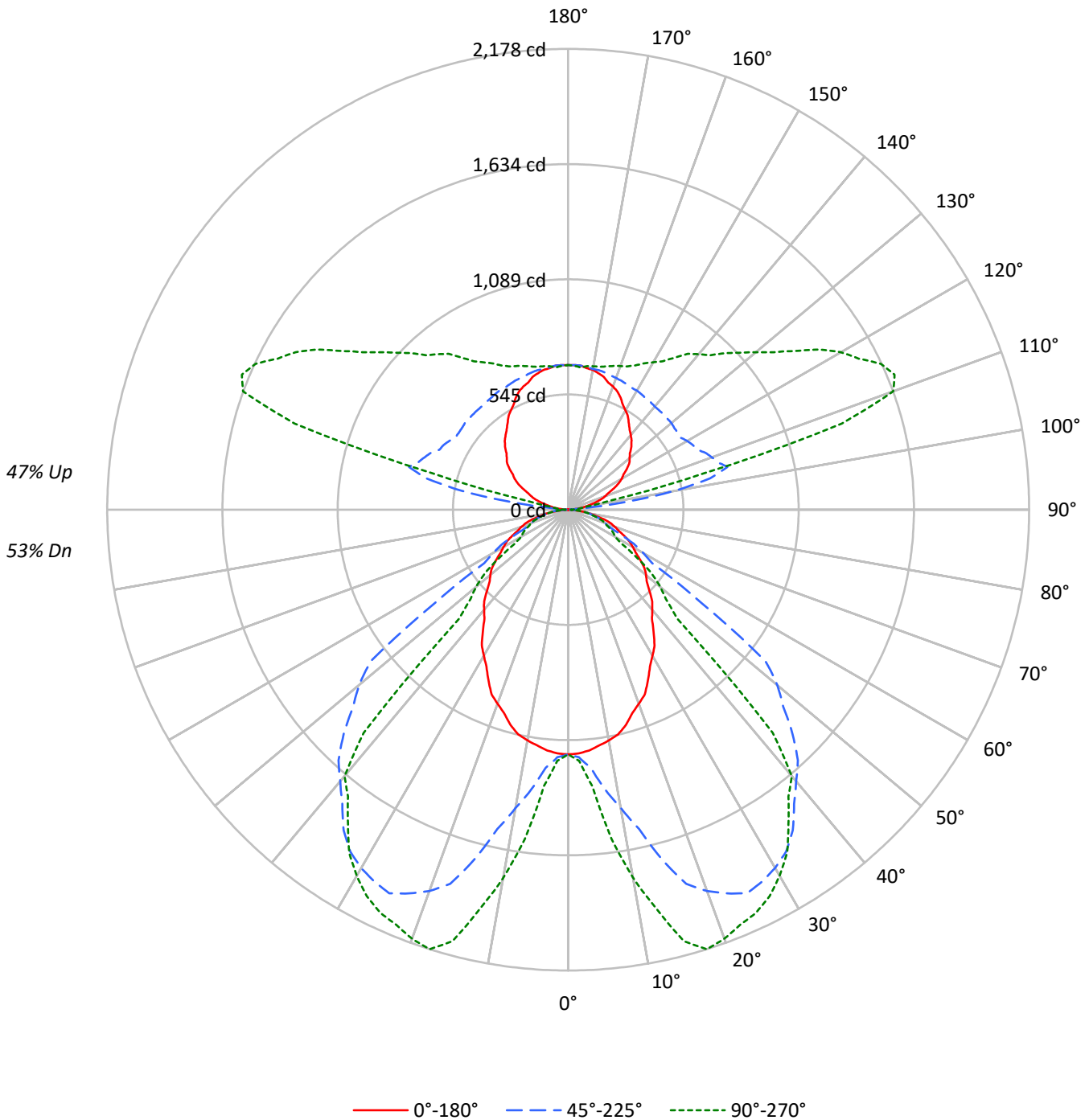
Lumens per Lamp: N/A
Luminaire Lumens: 7819.2 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	8298	8298	8298
5°	8228	8821	9447
10°	8066	10430	12879
15°	7823	12712	15681
20°	7449	14646	16477
25°	7053	15837	16638
30°	6602	16203	16554
35°	6157	16205	15895
40°	5791	15698	15390
45°	5510	15218	7371
50°	5353	14406	6350
55°	5205	9645	5028
60°	5060	5870	3643
65°	4948	4469	3792
70°	4882	3896	3896
75°	4758	4040	3909
80°	4178	4079	3885
85°	3096	4257	3680

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15218 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	1.6
10°-20°	459.8	5.9
20°-30°	778.8	10.0
30°-40°	944.7	12.1
40°-50°	831.6	10.6
50°-60°	514.6	6.6
60°-70°	279.0	3.6
70°-80°	158.9	2.0
80°-90°	53.5	0.7
90°-100°	84.1	1.1
100°-110°	599.2	7.7
110°-120°	813.4	10.4
120°-130°	662.0	8.5
130°-140°	532.5	6.8
140°-150°	419.8	5.4
150°-160°	306.9	3.9
160°-170°	190.7	2.4
170°-180°	65.0	0.8
0°-30°	1363.3	17.4
0°-40°	2308.0	29.5
0°-60°	3654.2	46.7
0°-90°	4145.6	53.0
90°-120°	1496.6	19.1
90°-150°	3111.0	39.8
90°-180°	3674.0	47.0
0°-180°	7819.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1142	1179	1225	1277	1312	108
15°	1053	1214	1711	2023	2111	295
25°	891	1219	2000	2060	2101	409
35°	703	1130	1850	1824	1814	440
45°	543	929	1500	1271	726	421
55°	416	648	771	446	402	372
65°	291	365	263	226	223	289
75°	172	151	146	143	141	179
85°	38	51	52	47	45	46
90°	0	4	9	13	13	3
95°	34	64	34	39	47	38
105°	133	205	778	994	658	141
115°	237	287	671	1395	1630	235
125°	340	386	632	1106	1308	302
135°	422	468	637	911	1045	324
145°	499	541	641	793	877	313
155°	585	606	654	719	753	269
165°	650	658	671	688	701	182
175°	684	688	684	680	675	65
180°	684	684	684	684	684	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.4	1156.4	1156.4	1156.4	1156.4
2.5°	1152.6	1165.5	1171.4	1182.8	1188.4
5°	1142.3	1179.1	1224.6	1277.0	1311.5
7.5°	1124.0	1189.7	1333.6	1499.3	1570.1
10°	1107.0	1196.7	1431.4	1671.0	1767.5
12.5°	1088.2	1203.6	1546.1	1836.5	1934.8
15°	1053.0	1213.8	1711.1	2023.3	2110.7
17.5°	1007.4	1220.2	1854.0	2122.3	2178.3
20°	975.4	1221.3	1917.9	2134.7	2157.7
22.5°	945.3	1222.5	1963.1	2104.5	2123.8
25°	890.8	1219.4	2000.2	2059.9	2101.3
27.5°	836.3	1205.8	1981.9	2030.0	2059.9
30°	796.8	1192.1	1955.5	1995.5	1997.8
32.5°	759.2	1169.2	1916.0	1927.7	1924.5
35°	702.8	1130.2	1849.8	1823.7	1814.5
37.5°	650.1	1078.5	1752.9	1711.0	1708.7
40°	618.2	1041.0	1675.8	1636.0	1642.9
42.5°	588.1	998.1	1606.3	1559.6	1430.5
45°	542.9	929.0	1499.6	1270.9	726.3
47.5°	503.9	850.5	1378.7	680.8	625.2
50°	479.5	796.6	1290.4	598.7	568.8
52.5°	455.0	746.4	1175.7	538.3	499.2
55°	416.0	648.1	770.9	445.6	401.9
57.5°	378.9	544.8	471.0	346.3	299.0
60°	352.6	483.6	409.0	279.1	253.8
62.5°	328.1	433.4	348.8	247.6	242.6
65°	291.4	365.0	263.2	225.6	223.3
67.5°	257.1	299.9	200.7	203.0	200.7
70°	232.7	253.4	185.7	188.0	185.7
72.5°	210.1	208.7	170.6	169.2	166.9
75°	171.6	150.9	145.7	143.3	141.0
77.5°	131.2	111.4	117.5	115.1	112.8
80°	101.1	94.2	98.7	96.3	94.0
82.5°	74.7	77.0	79.9	75.6	73.3
85°	37.6	51.4	51.7	47.0	44.7
87.5°	11.3	23.2	22.4	19.5	17.6
90°	0.0	4.2	8.6	12.9	12.9
92.5°	10.3	14.5	18.9	26.7	30.1
95°	34.4	63.8	34.4	38.9	47.3
97.5°	61.1	122.5	252.9	74.6	64.5
100°	81.7	153.2	507.5	149.4	98.9
102.5°	102.4	177.2	686.5	394.2	215.9
105°	133.3	204.8	778.5	994.5	658.1
107.5°	164.3	218.1	743.2	1447.4	1355.7
110°	184.9	235.4	722.6	1520.9	1634.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	205.6	256.1	701.9	1477.9	1668.8
115°	236.6	287.0	671.0	1394.6	1630.1
117.5°	268.4	318.0	663.2	1304.4	1546.7
120°	292.5	338.7	649.5	1235.9	1488.2
122.5°	309.7	359.3	632.3	1176.9	1409.0
125°	339.8	386.0	632.3	1105.7	1307.5
127.5°	364.7	411.8	633.1	1023.0	1222.4
130°	378.5	429.0	636.6	967.7	1157.0
132.5°	395.7	446.2	636.6	942.9	1098.5
135°	421.5	467.8	636.6	910.6	1045.2
137.5°	443.0	492.6	636.6	874.9	990.1
140°	460.2	506.5	636.6	854.0	959.1
142.5°	477.4	520.3	640.0	829.8	928.2
145°	498.9	541.0	640.9	793.3	877.4
147.5°	524.7	561.7	646.0	767.1	831.8
150°	541.9	575.6	649.5	749.6	804.3
152.5°	559.1	589.4	649.5	735.6	780.2
155°	585.0	606.0	653.8	719.0	752.7
157.5°	605.6	625.8	658.9	708.5	732.9
160°	619.4	636.2	662.4	701.6	722.6
162.5°	629.7	646.5	665.8	698.0	712.3
165°	649.5	657.9	671.0	688.5	701.1
167.5°	660.7	668.2	675.3	684.0	691.6
170°	671.0	675.2	675.3	684.0	688.2
172.5°	674.4	682.0	678.7	680.5	684.7
175°	683.9	688.1	683.9	679.5	675.3
177.5°	683.9	687.2	683.9	683.8	680.4
180°	683.9	683.9	683.9	683.9	683.9

(END OF REPORT)