

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: P621881

Luminaire Tested: VLT-FB-125U-100D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621881
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-935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

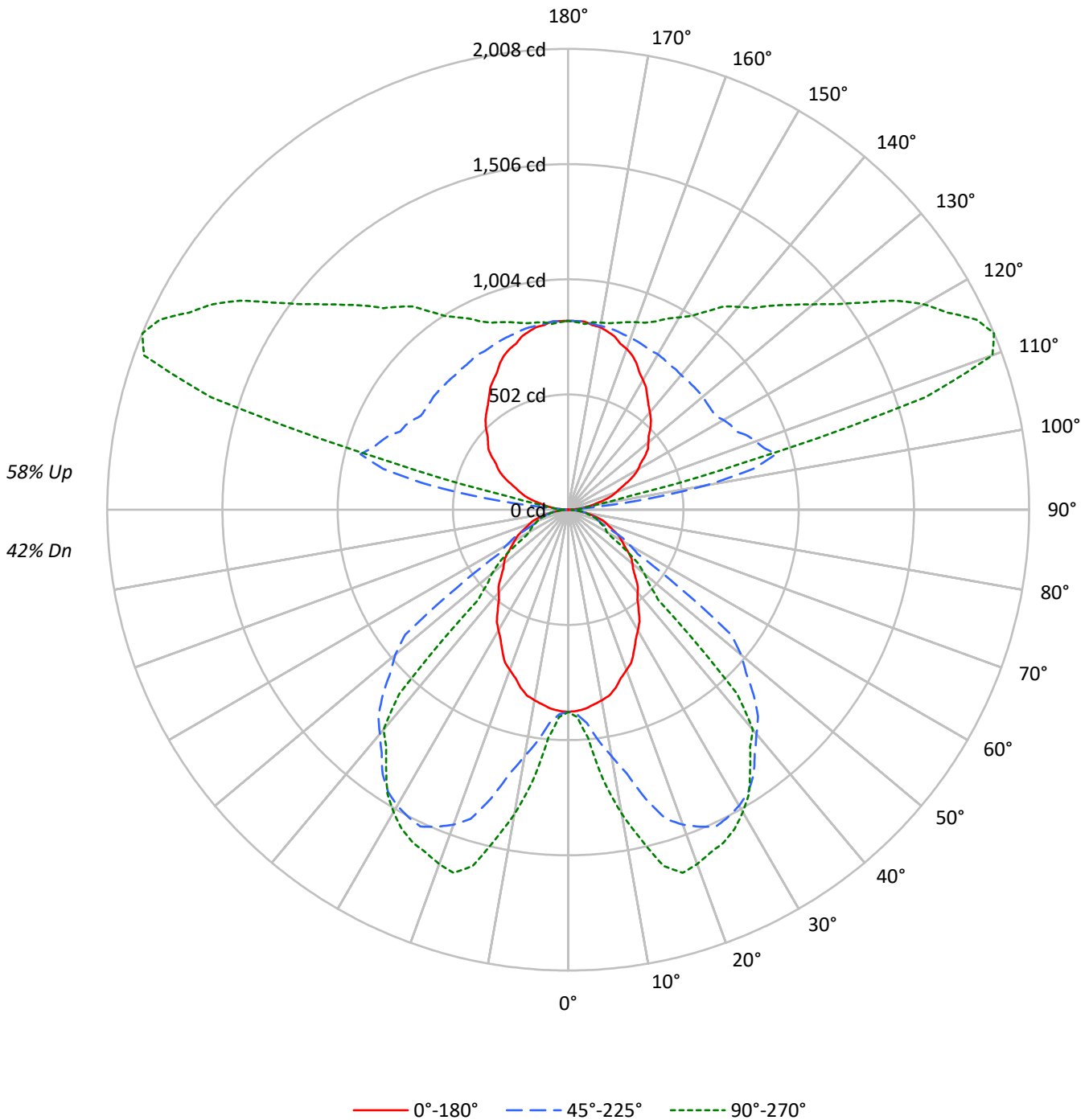
Lumens per Lamp: N/A
Luminaire Lumens: 7577.4 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

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			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	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°	6320	6320	6320
5°	6266	6718	7195
10°	6143	7943	9809
15°	5957	9681	11942
20°	5673	11154	12548
25°	5371	12061	12671
30°	5028	12340	12607
35°	4688	12341	12106
40°	4410	11956	11721
45°	4196	11589	5613
50°	4077	10971	4836
55°	3963	7345	3830
60°	3853	4471	2774
65°	3769	3404	2888
70°	3718	2967	2967
75°	3624	3078	2978
80°	3182	3108	2959
85°	2355	3244	2799

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 11589 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	1.3
10°-20°	350.2	4.6
20°-30°	593.1	7.8
30°-40°	719.5	9.5
40°-50°	633.3	8.4
50°-60°	391.9	5.2
60°-70°	212.5	2.8
70°-80°	121.0	1.6
80°-90°	41.4	0.5
90°-100°	101.2	1.3
100°-110°	720.8	9.5
110°-120°	978.6	12.9
120°-130°	796.5	10.5
130°-140°	640.6	8.5
140°-150°	505.0	6.7
150°-160°	369.3	4.9
160°-170°	229.4	3.0
170°-180°	78.2	1.0
0°-30°	1038.2	13.7
0°-40°	1757.7	23.2
0°-60°	2782.9	36.7
0°-90°	3157.9	41.7
90°-120°	1800.6	23.8
90°-150°	3742.6	49.4
90°-180°	4419.0	58.3
0°-180°	7577.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	881	881	881	881	881	
5°	870	898	933	973	999	82
15°	802	924	1303	1541	1607	225
25°	678	929	1523	1569	1600	312
35°	535	861	1409	1389	1382	335
45°	414	708	1142	968	553	321
55°	317	494	587	339	306	284
65°	222	278	200	172	170	220
75°	131	115	111	109	107	137
85°	29	39	39	36	34	35
90°	0	5	10	16	16	3
95°	41	77	41	47	57	46
105°	160	246	937	1196	792	169
115°	285	345	807	1678	1961	283
125°	409	464	761	1330	1573	363
135°	507	563	766	1096	1257	390
145°	600	651	771	954	1056	377
155°	704	729	786	865	906	323
165°	781	792	807	828	843	219
175°	823	828	823	817	812	78
180°	823	823	823	823	823	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	880.7	880.7	880.7	880.7	880.7
2.5°	877.8	887.6	892.1	900.8	905.0
5°	869.9	897.9	932.6	972.6	998.8
7.5°	856.0	906.0	1015.6	1141.8	1195.7
10°	843.1	911.3	1090.1	1272.6	1346.1
12.5°	828.8	916.6	1177.5	1398.6	1473.5
15°	801.9	924.4	1303.1	1540.9	1607.4
17.5°	767.2	929.3	1412.0	1616.3	1659.0
20°	742.9	930.1	1460.6	1625.7	1643.2
22.5°	719.9	931.0	1495.0	1602.7	1617.4
25°	678.4	928.7	1523.3	1568.8	1600.3
27.5°	636.9	918.3	1509.3	1546.0	1568.8
30°	606.8	907.8	1489.3	1519.8	1521.5
32.5°	578.2	890.4	1459.2	1468.1	1465.7
35°	535.2	860.8	1408.7	1388.9	1381.9
37.5°	495.1	821.4	1335.0	1303.1	1301.3
40°	470.8	792.8	1276.3	1246.0	1251.2
42.5°	447.9	760.1	1223.3	1187.8	1089.4
45°	413.5	707.5	1142.0	967.9	553.1
47.5°	383.8	647.7	1050.0	518.5	476.1
50°	365.2	606.7	982.7	455.9	433.2
52.5°	346.5	568.5	895.4	410.0	380.2
55°	316.8	493.6	587.1	339.3	306.1
57.5°	288.5	414.9	358.7	263.7	227.7
60°	268.5	368.3	311.5	212.6	193.3
62.5°	249.9	330.0	265.6	188.6	184.7
65°	222.0	278.0	200.5	171.8	170.1
67.5°	195.8	228.4	152.9	154.6	152.9
70°	177.2	193.0	141.4	143.2	141.4
72.5°	160.0	159.0	130.0	128.8	127.1
75°	130.7	114.9	111.0	109.2	107.4
77.5°	99.9	84.8	89.5	87.7	85.9
80°	77.0	71.7	75.2	73.4	71.6
82.5°	56.9	58.7	60.9	57.6	55.8
85°	28.6	39.1	39.4	35.8	34.0
87.5°	8.6	18.0	17.8	16.0	14.6
90°	0.0	5.1	10.3	15.5	15.5
92.5°	12.4	17.5	22.8	32.2	36.2
95°	41.4	76.8	41.4	46.8	56.9
97.5°	73.5	147.3	304.3	89.8	77.6
100°	98.3	184.3	610.6	179.7	119.0
102.5°	123.2	213.2	825.8	474.3	259.8
105°	160.4	246.4	936.6	1196.4	791.7
107.5°	197.7	262.4	894.1	1741.3	1631.0
110°	222.5	283.2	869.3	1829.7	1966.3



TEST NUMBER: P621881

CATALOG NUMBER: VLT-FB-125U-100D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	247.3	308.0	844.5	1778.0	2007.7
115°	284.6	345.3	807.2	1677.8	1961.1
117.5°	322.9	382.6	797.9	1569.3	1860.7
120°	351.9	407.5	781.3	1486.8	1790.3
122.5°	372.6	432.3	760.6	1415.9	1695.1
125°	408.8	464.4	760.6	1330.2	1573.0
127.5°	438.8	495.5	761.7	1230.8	1470.6
130°	455.3	516.1	765.8	1164.2	1391.9
132.5°	476.0	536.8	765.8	1134.3	1321.5
135°	507.1	562.7	765.8	1095.5	1257.4
137.5°	533.0	592.7	765.8	1052.5	1191.1
140°	553.7	609.3	765.8	1027.4	1153.9
142.5°	574.4	626.0	770.0	998.2	1116.6
145°	600.2	650.8	771.0	954.4	1055.6
147.5°	631.3	675.8	777.2	922.8	1000.7
150°	652.0	692.5	781.3	901.8	967.6
152.5°	672.7	709.1	781.3	885.0	938.6
155°	703.7	729.0	786.5	865.0	905.5
157.5°	728.6	752.8	792.7	852.4	881.7
160°	745.1	765.4	796.9	844.0	869.3
162.5°	757.5	777.8	801.0	839.7	856.9
165°	781.3	791.5	807.2	828.3	843.4
167.5°	794.8	803.9	812.4	822.9	832.0
170°	807.2	812.3	812.4	822.8	827.9
172.5°	811.3	820.5	816.5	818.7	823.8
175°	822.7	827.8	822.7	817.4	812.4
177.5°	822.7	826.8	822.7	822.6	818.6
180°	822.7	822.7	822.7	822.7	822.7

(END OF REPORT)