

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: P621862

Luminaire Tested: VLT-FB-100U-125D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621862
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-930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

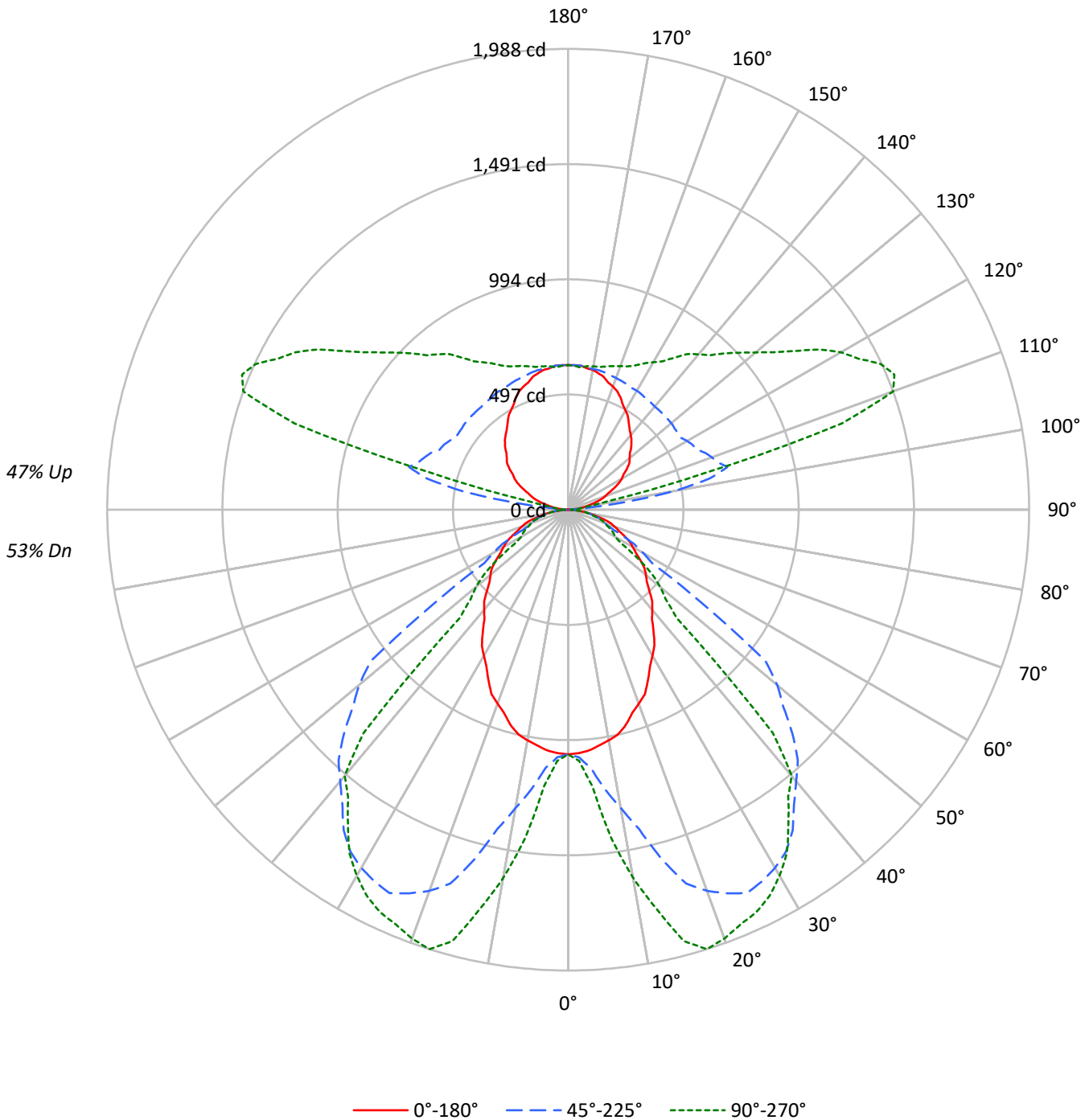
Lumens per Lamp: N/A
Luminaire Lumens: 7134.1 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 67.7
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	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°	7571	7571	7571
5°	7507	8048	8620
10°	7360	9516	11750
15°	7137	11598	14306
20°	6796	13363	15033
25°	6435	14449	15179
30°	6024	14784	15104
35°	5617	14785	14503
40°	5283	14323	14042
45°	5027	13885	6724
50°	4884	13143	5794
55°	4749	8800	4588
60°	4617	5355	3324
65°	4515	4079	3459
70°	4454	3554	3554
75°	4339	3688	3568
80°	3810	3723	3546
85°	2824	3886	3351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13885 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	1.6
10°-20°	419.5	5.9
20°-30°	710.5	10.0
30°-40°	862.0	12.1
40°-50°	758.7	10.6
50°-60°	469.5	6.6
60°-70°	254.5	3.6
70°-80°	145.0	2.0
80°-90°	48.8	0.7
90°-100°	76.7	1.1
100°-110°	546.7	7.7
110°-120°	742.1	10.4
120°-130°	604.0	8.5
130°-140°	485.8	6.8
140°-150°	383.0	5.4
150°-160°	280.1	3.9
160°-170°	173.9	2.4
170°-180°	59.3	0.8
0°-30°	1243.8	17.4
0°-40°	2105.8	29.5
0°-60°	3334.0	46.7
0°-90°	3782.3	53.0
90°-120°	1365.5	19.1
90°-150°	2838.4	39.8
90°-180°	3352.0	47.0
0°-180°	7134.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1042	1076	1117	1165	1197	98
15°	961	1108	1561	1846	1926	269
25°	813	1113	1825	1879	1917	373
35°	641	1031	1688	1664	1656	402
45°	495	848	1368	1160	663	384
55°	380	591	703	406	367	340
65°	266	333	240	206	204	264
75°	156	138	133	131	129	164
85°	34	47	47	43	41	42
90°	0	4	8	12	12	3
95°	31	58	31	36	43	35
105°	122	187	710	907	600	128
115°	216	262	612	1272	1487	214
125°	310	352	577	1009	1193	275
135°	385	427	581	831	954	296
145°	455	494	585	724	800	286
155°	534	553	596	656	687	245
165°	593	600	612	628	640	166
175°	624	628	624	620	616	59
180°	624	624	624	624	624	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.1	1055.1	1055.1	1055.1	1055.1
2.5°	1051.6	1063.4	1068.8	1079.2	1084.2
5°	1042.2	1075.7	1117.3	1165.1	1196.6
7.5°	1025.5	1085.4	1216.8	1367.9	1432.5
10°	1010.0	1091.8	1306.0	1524.6	1612.6
12.5°	992.9	1098.1	1410.6	1675.6	1765.3
15°	960.7	1107.5	1561.2	1846.0	1925.7
17.5°	919.1	1113.3	1691.5	1936.3	1987.5
20°	889.9	1114.3	1749.9	1947.6	1968.6
22.5°	862.5	1115.4	1791.0	1920.1	1937.7
25°	812.7	1112.6	1824.9	1879.4	1917.1
27.5°	763.0	1100.2	1808.2	1852.1	1879.4
30°	727.0	1087.6	1784.2	1820.7	1822.8
32.5°	692.7	1066.7	1748.2	1758.8	1755.9
35°	641.2	1031.2	1687.7	1663.9	1655.5
37.5°	593.2	984.0	1599.3	1561.1	1559.0
40°	564.0	949.8	1529.0	1492.7	1499.0
42.5°	536.5	910.6	1465.5	1422.9	1305.1
45°	495.4	847.6	1368.2	1159.6	662.6
47.5°	459.8	776.0	1257.9	621.2	570.4
50°	437.5	726.8	1177.3	546.2	519.0
52.5°	415.2	681.0	1072.7	491.1	455.5
55°	379.6	591.3	703.4	406.5	366.7
57.5°	345.7	497.1	429.7	316.0	272.8
60°	321.7	441.2	373.1	254.7	231.6
62.5°	299.4	395.4	318.2	225.9	221.3
65°	265.9	333.0	240.2	205.8	203.7
67.5°	234.6	273.6	183.1	185.2	183.1
70°	212.3	231.2	169.4	171.5	169.4
72.5°	191.7	190.5	155.7	154.4	152.3
75°	156.5	137.7	133.0	130.8	128.7
77.5°	119.7	101.6	107.2	105.0	102.9
80°	92.2	85.9	90.1	87.9	85.8
82.5°	68.2	70.3	72.9	69.0	66.9
85°	34.3	46.9	47.2	42.8	40.7
87.5°	10.3	21.1	20.4	17.8	16.1
90°	0.0	3.8	7.8	11.8	11.8
92.5°	9.4	13.3	17.3	24.4	27.5
95°	31.4	58.3	31.4	35.5	43.2
97.5°	55.7	111.7	230.7	68.1	58.9
100°	74.6	139.8	463.1	136.3	90.3
102.5°	93.4	161.7	626.3	359.7	197.0
105°	121.7	186.9	710.3	907.4	600.4
107.5°	149.9	199.0	678.1	1320.6	1236.9
110°	168.7	214.8	659.3	1387.6	1491.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	187.6	233.6	640.4	1348.4	1522.6
115°	215.8	261.9	612.2	1272.4	1487.3
117.5°	244.9	290.1	605.1	1190.1	1411.2
120°	266.8	309.1	592.6	1127.6	1357.8
122.5°	282.5	327.8	576.9	1073.8	1285.6
125°	310.0	352.2	576.9	1008.8	1193.0
127.5°	332.8	375.7	577.6	933.4	1115.3
130°	345.3	391.4	580.8	883.0	1055.6
132.5°	361.0	407.1	580.8	860.3	1002.2
135°	384.6	426.8	580.8	830.8	953.6
137.5°	404.2	449.5	580.8	798.2	903.4
140°	419.9	462.1	580.8	779.2	875.1
142.5°	435.6	474.7	583.9	757.1	846.8
145°	455.2	493.6	584.7	723.8	800.5
147.5°	478.8	512.5	589.4	699.9	758.9
150°	494.5	525.1	592.6	683.9	733.8
152.5°	510.1	537.8	592.6	671.2	711.9
155°	533.7	552.9	596.5	656.0	686.7
157.5°	552.5	570.9	601.2	646.4	668.7
160°	565.1	580.4	604.3	640.1	659.3
162.5°	574.5	589.9	607.5	636.8	649.9
165°	592.6	600.2	612.2	628.1	639.6
167.5°	602.8	609.7	616.1	624.1	631.0
170°	612.2	616.0	616.1	624.0	627.9
172.5°	615.3	622.2	619.2	620.9	624.7
175°	624.0	627.8	624.0	619.9	616.1
177.5°	624.0	627.0	624.0	623.9	620.8
180°	624.0	624.0	624.0	624.0	624.0

(END OF REPORT)