

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P621877

Luminaire Tested: VLT-FB-125U-100D-830-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621877
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-830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

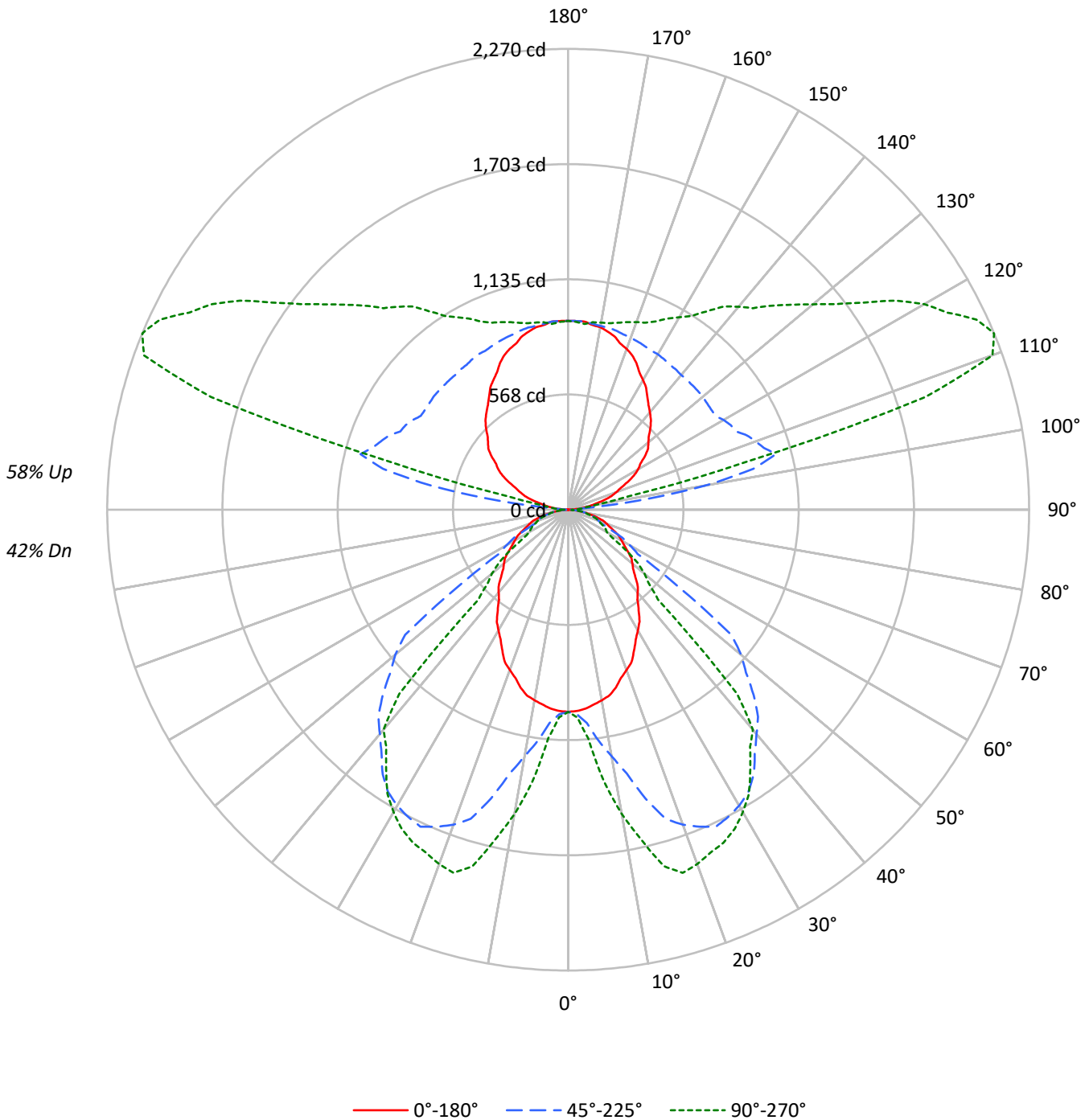
Lumens per Lamp: N/A
Luminaire Lumens: 8567.3 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

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



TEST NUMBER: P621877
CATALOG NUMBER: VLT-FB-125U-100D-830-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621877

CATALOG NUMBER: VLT-FB-125U-100D-830-UNV-STD-W-4

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°	7145	7145	7145
5°	7085	7595	8135
10°	6946	8981	11090
15°	6736	10946	13502
20°	6414	12612	14188
25°	6073	13637	14326
30°	5685	13952	14255
35°	5301	13953	13687
40°	4986	13517	13252
45°	4744	13104	6347
50°	4610	12404	5468
55°	4481	8305	4330
60°	4357	5055	3137
65°	4262	3849	3265
70°	4205	3355	3355
75°	4095	3480	3366
80°	3595	3513	3347
85°	2668	3664	3170

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13104 cd/sqm



TEST NUMBER: P621877

CATALOG NUMBER: VLT-FB-125U-100D-830-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	1.3
10°-20°	395.9	4.6
20°-30°	670.6	7.8
30°-40°	813.5	9.5
40°-50°	716.0	8.4
50°-60°	443.1	5.2
60°-70°	240.2	2.8
70°-80°	136.8	1.6
80°-90°	46.9	0.5
90°-100°	114.4	1.3
100°-110°	815.0	9.5
110°-120°	1106.4	12.9
120°-130°	900.5	10.5
130°-140°	724.3	8.5
140°-150°	571.0	6.7
150°-160°	417.5	4.9
160°-170°	259.3	3.0
170°-180°	88.4	1.0
0°-30°	1173.9	13.7
0°-40°	1987.4	23.2
0°-60°	3146.5	36.7
0°-90°	3570.4	41.7
90°-120°	2035.8	23.8
90°-150°	4231.6	49.4
90°-180°	4997.0	58.3
0°-180°	8567.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	984	1015	1054	1100	1129	93
15°	907	1045	1473	1742	1817	254
25°	767	1050	1722	1774	1809	352
35°	605	973	1593	1570	1562	379
45°	468	800	1291	1094	625	363
55°	358	558	664	384	346	321
65°	251	314	227	194	192	249
75°	148	130	126	123	121	154
85°	32	44	44	40	38	39
90°	0	6	12	18	18	3
95°	47	87	47	53	64	52
105°	181	279	1059	1353	895	191
115°	322	390	913	1897	2217	319
125°	462	525	860	1504	1778	411
135°	573	636	866	1239	1422	441
145°	679	736	872	1079	1194	426
155°	796	824	889	978	1024	365
165°	883	895	913	936	954	248
175°	930	936	930	924	918	88
180°	930	930	930	930	930	



TEST NUMBER: P621877

CATALOG NUMBER: VLT-FB-125U-100D-830-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.7	995.7	995.7	995.7	995.7
2.5°	992.5	1003.6	1008.7	1018.5	1023.3
5°	983.6	1015.3	1054.4	1099.6	1129.3
7.5°	967.8	1024.4	1148.3	1291.0	1351.9
10°	953.2	1030.4	1232.5	1438.8	1521.9
12.5°	937.0	1036.4	1331.3	1581.3	1666.0
15°	906.7	1045.2	1473.4	1742.2	1817.4
17.5°	867.4	1050.7	1596.4	1827.4	1875.7
20°	839.9	1051.6	1651.5	1838.1	1857.9
22.5°	814.0	1052.6	1690.3	1812.1	1828.8
25°	767.0	1050.0	1722.3	1773.7	1809.3
27.5°	720.1	1038.3	1706.5	1748.0	1773.7
30°	686.1	1026.5	1683.8	1718.3	1720.3
32.5°	653.7	1006.7	1649.8	1659.9	1657.1
35°	605.1	973.2	1592.8	1570.3	1562.4
37.5°	559.8	928.7	1509.4	1473.3	1471.3
40°	532.3	896.4	1443.0	1408.7	1414.7
42.5°	506.4	859.4	1383.1	1342.9	1231.7
45°	467.5	800.0	1291.2	1094.4	625.4
47.5°	433.9	732.3	1187.2	586.2	538.3
50°	412.9	686.0	1111.1	515.5	489.8
52.5°	391.8	642.7	1012.3	463.5	429.9
55°	358.2	558.1	663.8	383.7	346.1
57.5°	326.2	469.1	405.6	298.2	257.4
60°	303.6	416.4	352.2	240.3	218.6
62.5°	282.5	373.2	300.3	213.2	208.9
65°	251.0	314.3	226.7	194.2	192.3
67.5°	221.4	258.2	172.8	174.8	172.8
70°	200.4	218.2	159.9	161.9	159.9
72.5°	180.9	179.7	146.9	145.7	143.7
75°	147.7	129.9	125.5	123.4	121.4
77.5°	112.9	95.9	101.2	99.1	97.1
80°	87.0	81.1	85.0	82.9	81.0
82.5°	64.4	66.3	68.8	65.1	63.1
85°	32.4	44.3	44.5	40.4	38.5
87.5°	9.7	20.4	20.2	18.0	16.5
90°	0.0	5.7	11.7	17.6	17.6
92.5°	14.0	19.8	25.7	36.4	41.0
95°	46.8	86.8	46.8	52.9	64.4
97.5°	83.1	166.6	344.0	101.5	87.8
100°	111.2	208.4	690.3	203.2	134.6
102.5°	139.2	241.1	933.7	536.2	293.7
105°	181.4	278.6	1058.9	1352.7	895.1
107.5°	223.5	296.7	1011.0	1968.8	1844.0
110°	251.6	320.2	982.9	2068.7	2223.2



TEST NUMBER: P621877

CATALOG NUMBER: VLT-FB-125U-100D-830-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	279.6	348.3	954.8	2010.3	2270.0
115°	321.8	390.4	912.7	1897.0	2217.3
117.5°	365.1	432.6	902.1	1774.3	2103.8
120°	397.8	460.8	883.4	1681.0	2024.2
122.5°	421.2	488.7	860.0	1600.8	1916.6
125°	462.2	525.1	860.0	1503.9	1778.5
127.5°	496.1	560.2	861.2	1391.5	1662.7
130°	514.8	583.5	865.9	1316.3	1573.8
132.5°	538.2	606.9	865.9	1282.5	1494.2
135°	573.3	636.3	865.9	1238.6	1421.7
137.5°	602.6	670.1	865.9	1190.0	1346.8
140°	626.0	688.9	865.9	1161.6	1304.6
142.5°	649.4	707.7	870.5	1128.7	1262.5
145°	678.6	735.9	871.7	1079.1	1193.5
147.5°	713.8	764.1	878.7	1043.4	1131.5
150°	737.2	782.9	883.4	1019.7	1094.0
152.5°	760.6	801.7	883.4	1000.6	1061.3
155°	795.7	824.3	889.3	978.1	1023.8
157.5°	823.7	851.2	896.3	963.7	996.9
160°	842.5	865.3	901.0	954.3	982.9
162.5°	856.5	879.4	905.6	949.4	968.8
165°	883.4	894.9	912.7	936.5	953.6
167.5°	898.6	908.9	918.5	930.4	940.7
170°	912.7	918.4	918.5	930.3	936.1
172.5°	917.3	927.6	923.2	925.7	931.4
175°	930.2	935.9	930.2	924.2	918.5
177.5°	930.2	934.8	930.2	930.1	925.5
180°	930.2	930.2	930.2	930.2	930.2

(END OF REPORT)