

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: P621908

Luminaire Tested: VLT-FB-150U-125D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621908
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-150U-125D-835-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

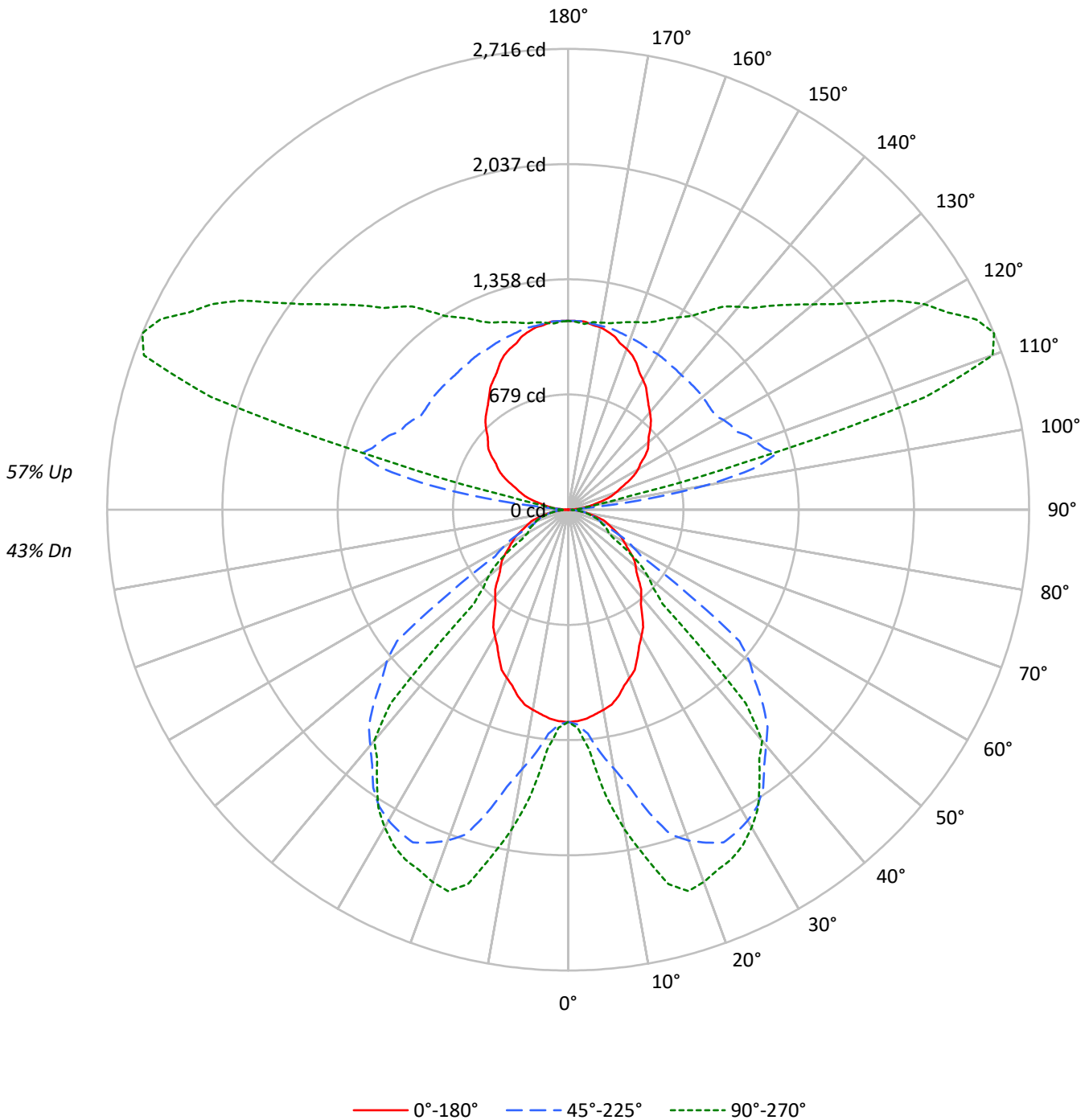
Lumens per Lamp: N/A
Luminaire Lumens: 10465.8 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 87.3
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



TEST NUMBER: P621908
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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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	97	93	89	86	88	85	82	79	70	68	66	57	55	54	45	44	43	37
2	88	81	76	71	81	75	70	66	62	59	56	51	48	46	40	38	37	32
3	81	72	65	60	74	66	60	55	55	51	47	45	42	39	36	34	32	28
4	74	64	56	51	68	59	52	47	49	45	41	40	37	34	32	30	28	24
5	68	57	49	44	62	53	46	41	44	39	35	36	33	30	29	27	25	21
6	63	51	44	38	57	47	41	36	40	35	31	33	29	26	27	24	22	19
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	21	19	17
8	54	42	35	29	49	39	32	28	33	28	24	27	24	21	22	19	17	15
9	50	38	31	26	46	36	29	25	30	25	22	25	21	19	21	18	16	13
10	47	35	28	23	43	33	26	22	28	23	19	23	19	17	19	16	14	12

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	1.3
10°-20°	497.5	4.8
20°-30°	842.7	8.1
30°-40°	1022.3	9.8
40°-50°	899.8	8.6
50°-60°	556.8	5.3
60°-70°	301.9	2.9
70°-80°	172.0	1.6
80°-90°	58.8	0.6
90°-100°	136.8	1.3
100°-110°	975.2	9.3
110°-120°	1324.0	12.7
120°-130°	1077.6	10.3
130°-140°	866.7	8.3
140°-150°	683.3	6.5
150°-160°	499.6	4.8
160°-170°	310.3	3.0
170°-180°	105.8	1.0
0°-30°	1475.2	14.1
0°-40°	2497.4	23.9
0°-60°	3954.0	37.8
0°-90°	4486.6	42.9
90°-120°	2436.0	23.3
90°-150°	5063.5	48.4
90°-180°	5979.0	57.1
0°-180°	10465.8	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	7	14	21	21	4
95°	56	104	56	63	77	63
105°	217	333	1267	1619	1071	229
115°	385	467	1092	2270	2653	382
125°	553	628	1029	1800	2128	491
135°	686	761	1036	1482	1701	528
145°	812	880	1043	1291	1428	510
155°	952	986	1064	1170	1225	437
165°	1057	1071	1092	1121	1141	297
175°	1113	1120	1113	1106	1099	105
180°	1113	1113	1113	1113	1113	

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CATALOG NUMBER: VLT-FB-150U-125D-835-UNV-STD-W-4

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	25.5	25.2	22.5	20.5
90°	0.0	6.8	14.0	21.0	21.0
92.5°	16.8	23.6	30.8	43.5	49.0
95°	56.0	103.9	56.0	63.3	77.0
97.5°	99.4	199.3	411.6	121.4	105.0
100°	133.0	249.4	826.1	243.2	161.0
102.5°	166.6	288.5	1117.3	641.7	351.4
105°	217.0	333.4	1267.1	1618.7	1071.1
107.5°	267.4	355.0	1209.7	2355.8	2206.6
110°	301.0	383.2	1176.1	2475.4	2660.2



TEST NUMBER: P621908

CATALOG NUMBER: VLT-FB-150U-125D-835-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	334.6	416.8	1142.5	2405.5	2716.2
115°	385.0	467.2	1092.1	2269.9	2653.2
117.5°	436.8	517.6	1079.5	2123.1	2517.4
120°	476.0	551.3	1057.1	2011.5	2422.2
122.5°	504.0	584.8	1029.1	1915.6	2293.4
125°	553.0	628.3	1029.1	1799.6	2128.2
127.5°	593.7	670.3	1030.5	1665.1	1989.6
130°	616.1	698.2	1036.1	1575.1	1883.2
132.5°	644.1	726.2	1036.1	1534.7	1788.0
135°	686.1	761.4	1036.1	1482.1	1701.2
137.5°	721.1	801.8	1036.1	1424.0	1611.5
140°	749.1	824.4	1036.1	1390.0	1561.1
142.5°	777.1	846.9	1041.7	1350.6	1510.7
145°	812.1	880.5	1043.1	1291.2	1428.1
147.5°	854.1	914.3	1051.5	1248.5	1353.9
150°	882.1	936.8	1057.1	1220.1	1309.1
152.5°	910.1	959.4	1057.1	1197.4	1269.9
155°	952.1	986.3	1064.1	1170.3	1225.1
157.5°	985.7	1018.5	1072.5	1153.2	1192.9
160°	1008.1	1035.5	1078.1	1141.9	1176.1
162.5°	1024.9	1052.3	1083.7	1136.0	1159.3
165°	1057.1	1070.8	1092.1	1120.6	1141.1
167.5°	1075.3	1087.6	1099.1	1113.4	1125.7
170°	1092.1	1098.9	1099.1	1113.3	1120.1
172.5°	1097.7	1110.0	1104.7	1107.7	1114.5
175°	1113.1	1119.9	1113.1	1105.9	1099.1
177.5°	1113.1	1118.6	1113.1	1113.0	1107.5
180°	1113.1	1113.1	1113.1	1113.1	1113.1

(END OF REPORT)