

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: P621788

Luminaire Tested: VLT-FB-050U-125D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621788
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-050U-125D-835-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

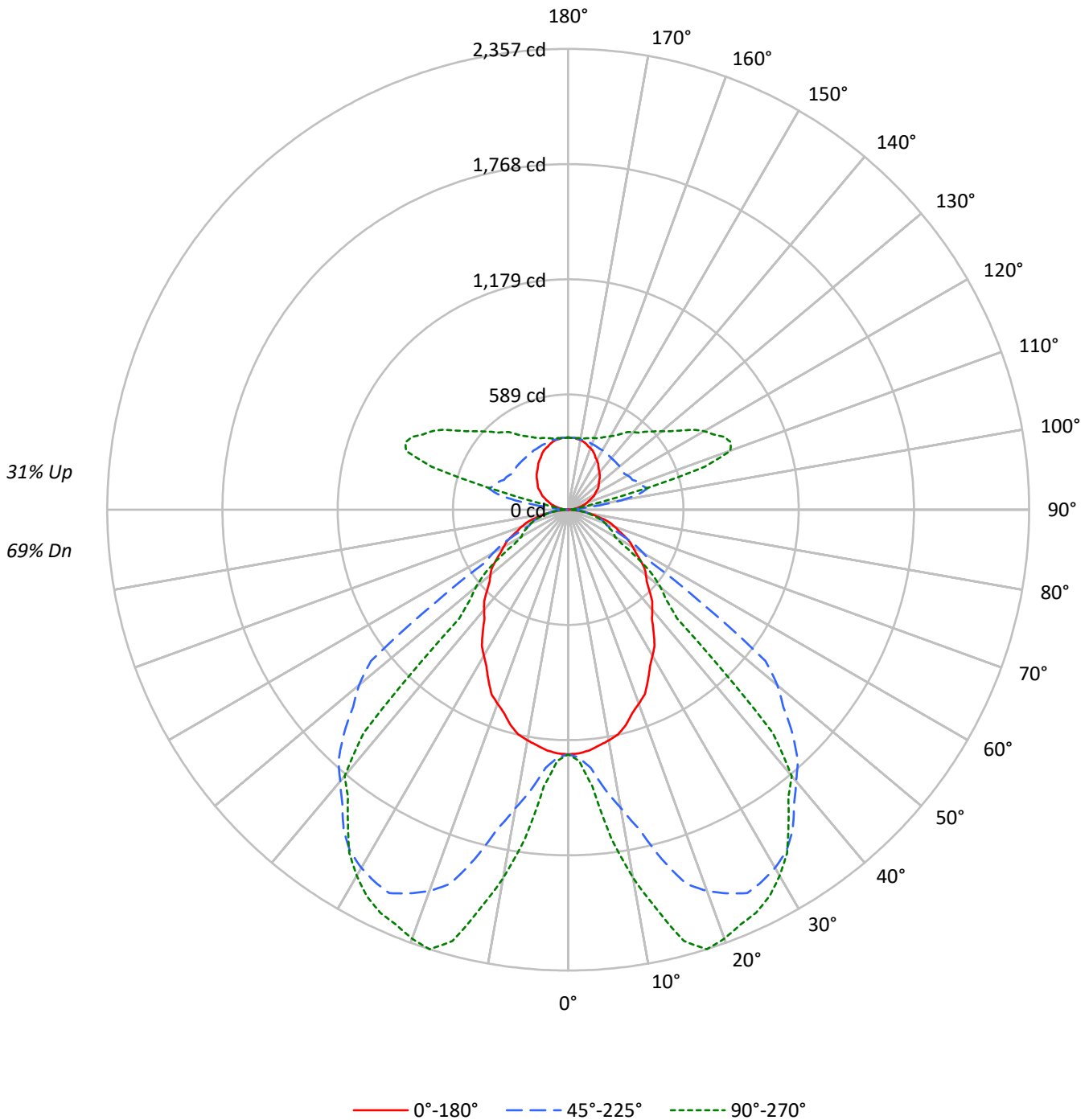
Lumens per Lamp: N/A
Luminaire Lumens: 6468.2 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 53.3
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										
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	50	30	10	0														
RCR																																						
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69																				
1	103	99	95	92	97	94	90	87	84	81	79	75	73	71	67	65	64	60																				
2	94	87	81	76	89	83	78	73	75	70	67	67	64	61	60	57	55	52																				
3	87	78	70	65	82	74	67	62	66	61	57	60	56	53	54	51	48	45																				
4	80	69	61	55	75	66	59	53	60	54	50	54	49	46	48	45	42	39																				
5	74	62	54	48	69	59	52	46	54	48	43	49	44	40	44	40	37	34																				
6	68	56	48	42	64	53	46	41	49	43	38	44	39	35	40	36	33	30																				
7	63	51	43	37	60	48	41	36	44	38	34	40	35	31	37	32	29	27																				
8	59	46	38	33	55	44	37	32	40	34	30	37	32	28	34	29	26	24																				
9	55	42	35	30	52	41	34	29	37	31	27	34	29	25	31	27	24	22																				
10	51	39	32	27	48	37	31	26	34	28	24	31	26	23	29	25	22	20																				

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	2.1
10°-20°	497.5	7.7
20°-30°	842.7	13.0
30°-40°	1022.3	15.8
40°-50°	899.8	13.9
50°-60°	556.8	8.6
60°-70°	301.9	4.7
70°-80°	172.0	2.7
80°-90°	57.1	0.9
90°-100°	45.4	0.7
100°-110°	323.5	5.0
110°-120°	439.1	6.8
120°-130°	357.4	5.5
130°-140°	287.5	4.4
140°-150°	226.6	3.5
150°-160°	165.7	2.6
160°-170°	102.9	1.6
170°-180°	35.1	0.5
0°-30°	1475.2	22.8
0°-40°	2497.4	38.6
0°-60°	3954.0	61.1
0°-90°	4484.9	69.3
90°-120°	808.0	12.5
90°-150°	1679.5	26.0
90°-180°	1983.0	30.7
0°-180°	6468.2	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	2	5	7	7	2
95°	19	34	19	21	26	21
105°	72	111	420	537	355	76
115°	128	155	362	753	880	127
125°	183	208	341	597	706	163
135°	228	252	344	492	564	175
145°	269	292	346	428	474	169
155°	316	327	353	388	406	145
165°	351	355	362	372	378	98
175°	369	372	369	367	365	35
180°	369	369	369	369	369	



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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	24.6	23.3	19.7	17.7
90°	0.0	2.3	4.6	7.0	7.0
92.5°	5.6	7.8	10.2	14.4	16.3
95°	18.6	34.5	18.6	21.0	25.5
97.5°	33.0	66.1	136.5	40.3	34.8
100°	44.1	82.7	274.0	80.7	53.4
102.5°	55.3	95.7	370.6	212.8	116.6
105°	72.0	110.6	420.3	536.9	355.3
107.5°	88.7	117.8	401.2	781.4	731.9
110°	99.8	127.1	390.1	821.1	882.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	111.0	138.2	378.9	797.9	900.9
115°	127.7	155.0	362.2	752.9	880.0
117.5°	144.9	171.7	358.0	704.2	835.0
120°	157.9	182.9	350.6	667.2	803.4
122.5°	167.2	194.0	341.3	635.4	760.7
125°	183.4	208.4	341.3	596.9	705.9
127.5°	196.9	222.3	341.8	552.3	659.9
130°	204.3	231.6	343.7	522.4	624.6
132.5°	213.6	240.9	343.7	509.0	593.0
135°	227.6	252.5	343.7	491.6	564.2
137.5°	239.2	266.0	343.7	472.3	534.5
140°	248.5	273.4	343.7	461.0	517.8
142.5°	257.7	280.9	345.5	448.0	501.1
145°	269.4	292.1	346.0	428.3	473.7
147.5°	283.3	303.3	348.8	414.1	449.1
150°	292.6	310.7	350.6	404.7	434.2
152.5°	301.9	318.2	350.6	397.1	421.2
155°	315.8	327.1	352.9	388.2	406.3
157.5°	326.9	337.8	355.7	382.5	395.7
160°	334.4	343.4	357.6	378.7	390.1
162.5°	339.9	349.0	359.4	376.8	384.5
165°	350.6	355.2	362.2	371.7	378.5
167.5°	356.7	360.7	364.6	369.3	373.4
170°	362.2	364.5	364.6	369.2	371.5
172.5°	364.1	368.2	366.4	367.4	369.7
175°	369.2	371.5	369.2	366.8	364.6
177.5°	369.2	371.0	369.2	369.2	367.3
180°	369.2	369.2	369.2	369.2	369.2

(END OF REPORT)