

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: P621836

Luminaire Tested: VLT-FB-0U-125D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621836
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-19)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-FB-0U-125D-835-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

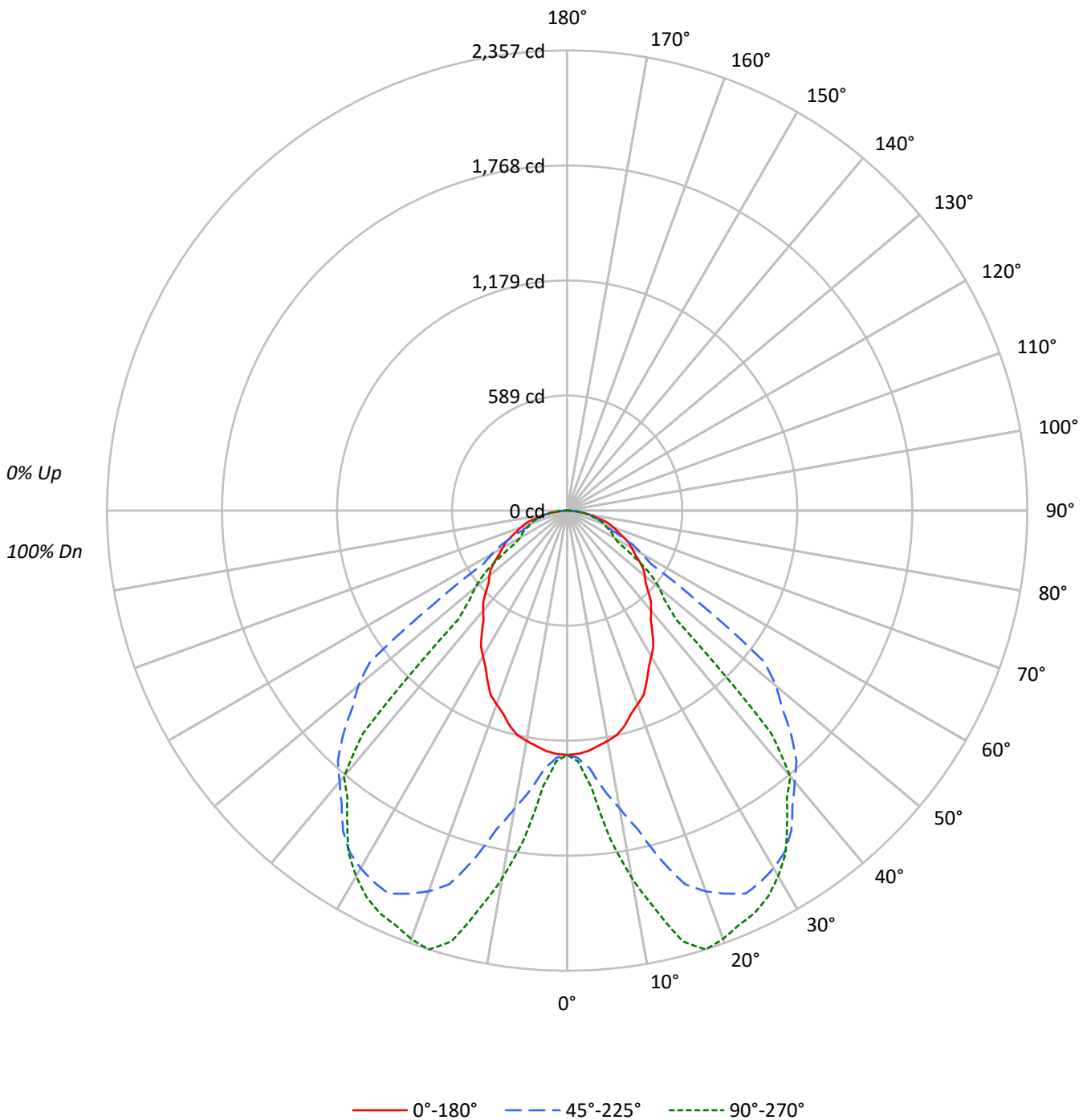
Lumens per Lamp: N/A
Luminaire Lumens: 4484.1 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
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																		
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	50	30	10	50	30	10	0																
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100									100																			
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87									87																			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75									75																			
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65									65																			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56									56																			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49									49																			
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	55	50	46	44									44																			
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39									39																			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35									35																			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31									31																			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28									28																			

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	3.0
10°-20°	497.5	11.1
20°-30°	842.7	18.8
30°-40°	1022.3	22.8
40°-50°	899.8	20.1
50°-60°	556.8	12.4
60°-70°	301.9	6.7
70°-80°	172.0	3.8
80°-90°	56.2	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1475.2	32.9
0°-40°	2497.4	55.7
0°-60°	3954.0	88.2
0°-90°	4484.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4484.1	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	51
90°	0	0	0	0	0	



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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	24.1	22.4	18.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)