

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: P621840

Luminaire Tested: VLT-FB-0U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621840
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-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

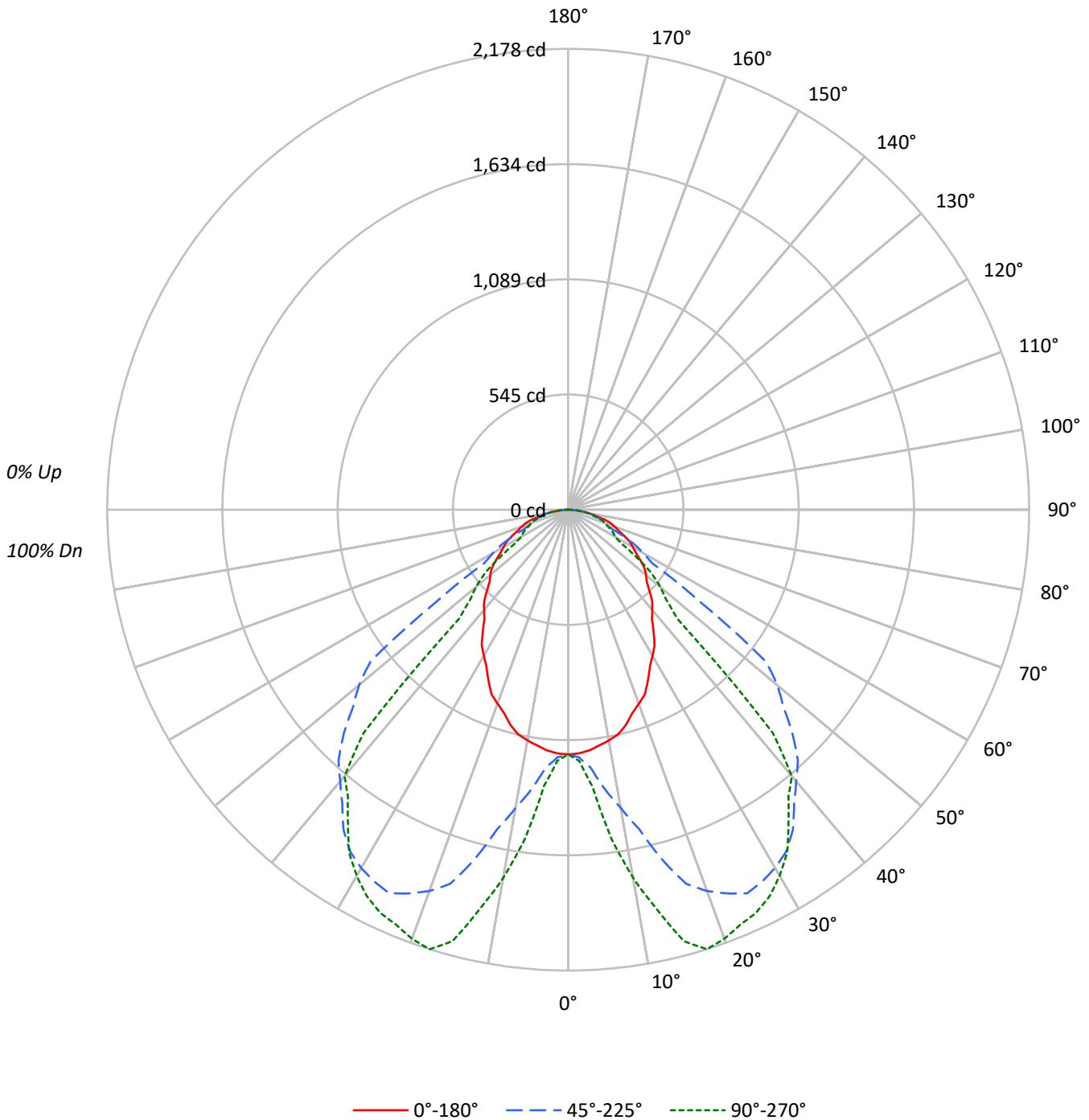
Lumens per Lamp: N/A
Luminaire Lumens: 4144.0 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8298	8298	8298
5°	8228	8821	9447
10°	8066	10430	12879
15°	7823	12712	15681
20°	7449	14646	16477
25°	7053	15837	16638
30°	6602	16203	16554
35°	6157	16205	15895
40°	5791	15698	15390
45°	5510	15218	7371
50°	5353	14406	6350
55°	5205	9645	5028
60°	5060	5870	3643
65°	4948	4469	3792
70°	4882	3896	3896
75°	4758	4040	3909
80°	4178	4079	3885
85°	3096	4257	3680

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15218 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	3.0
10°-20°	459.8	11.1
20°-30°	778.8	18.8
30°-40°	944.7	22.8
40°-50°	831.6	20.1
50°-60°	514.6	12.4
60°-70°	279.0	6.7
70°-80°	158.9	3.8
80°-90°	52.0	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°	1363.3	32.9
0°-40°	2308.0	55.7
0°-60°	3654.2	88.2
0°-90°	4144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1142	1179	1225	1277	1312	108
15°	1053	1214	1711	2023	2111	295
25°	891	1219	2000	2060	2101	409
35°	703	1130	1850	1824	1814	440
45°	543	929	1500	1271	726	421
55°	416	648	771	446	402	372
65°	291	365	263	226	223	289
75°	172	151	146	143	141	179
85°	38	51	52	47	45	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.4	1156.4	1156.4	1156.4	1156.4
2.5°	1152.6	1165.5	1171.4	1182.8	1188.4
5°	1142.3	1179.1	1224.6	1277.0	1311.5
7.5°	1124.0	1189.7	1333.6	1499.3	1570.1
10°	1107.0	1196.7	1431.4	1671.0	1767.5
12.5°	1088.2	1203.6	1546.1	1836.5	1934.8
15°	1053.0	1213.8	1711.1	2023.3	2110.7
17.5°	1007.4	1220.2	1854.0	2122.3	2178.3
20°	975.4	1221.3	1917.9	2134.7	2157.7
22.5°	945.3	1222.5	1963.1	2104.5	2123.8
25°	890.8	1219.4	2000.2	2059.9	2101.3
27.5°	836.3	1205.8	1981.9	2030.0	2059.9
30°	796.8	1192.1	1955.5	1995.5	1997.8
32.5°	759.2	1169.2	1916.0	1927.7	1924.5
35°	702.8	1130.2	1849.8	1823.7	1814.5
37.5°	650.1	1078.5	1752.9	1711.0	1708.7
40°	618.2	1041.0	1675.8	1636.0	1642.9
42.5°	588.1	998.1	1606.3	1559.6	1430.5
45°	542.9	929.0	1499.6	1270.9	726.3
47.5°	503.9	850.5	1378.7	680.8	625.2
50°	479.5	796.6	1290.4	598.7	568.8
52.5°	455.0	746.4	1175.7	538.3	499.2
55°	416.0	648.1	770.9	445.6	401.9
57.5°	378.9	544.8	471.0	346.3	299.0
60°	352.6	483.6	409.0	279.1	253.8
62.5°	328.1	433.4	348.8	247.6	242.6
65°	291.4	365.0	263.2	225.6	223.3
67.5°	257.1	299.9	200.7	203.0	200.7
70°	232.7	253.4	185.7	188.0	185.7
72.5°	210.1	208.7	170.6	169.2	166.9
75°	171.6	150.9	145.7	143.3	141.0
77.5°	131.2	111.4	117.5	115.1	112.8
80°	101.1	94.2	98.7	96.3	94.0
82.5°	74.7	77.0	79.9	75.6	73.3
85°	37.6	51.4	51.7	47.0	44.7
87.5°	11.3	22.3	20.7	16.9	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)