

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: P709285

Luminaire Tested: DL2W-BB-M-OU-100D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

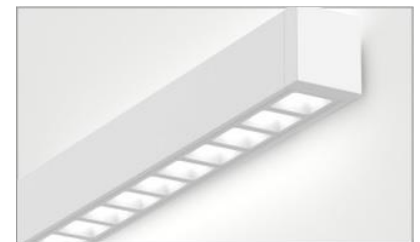
Test Information

Test Method: LM-79-2019
Report Number: P709285
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-0U-100D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4223.5 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.16
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

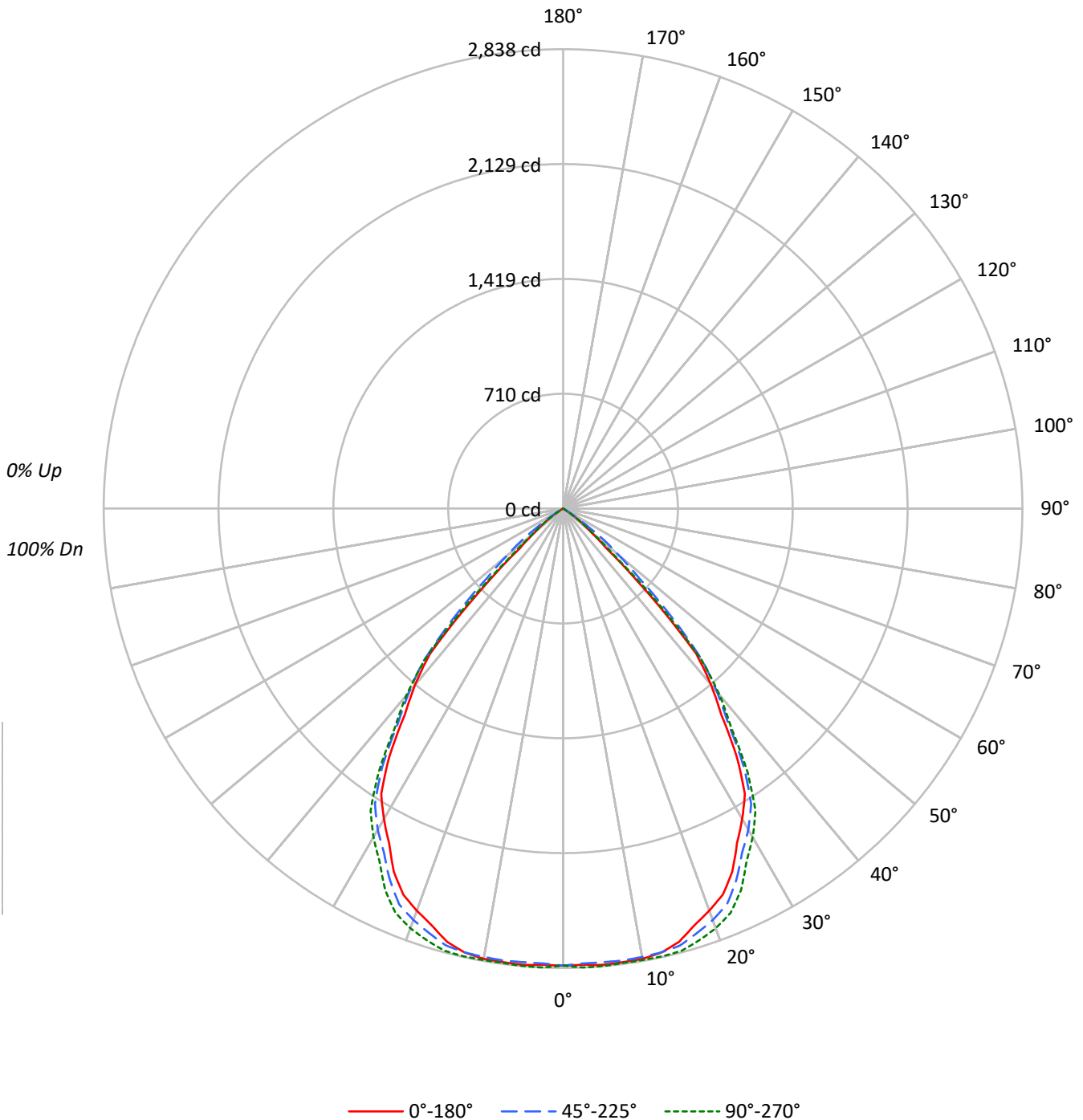
Input Watts (W): 38.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92	
2	106	101	96	93	104	99	95	92	96	92	89	93	90	88	90	88	86	84	84	84	84	
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76	76	76	76	
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70	70	70	70	
5	88	79	72	67	86	78	71	67	76	70	66	74	69	66	72	68	65	63	63	63	63	
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58	58	58	58	
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53	
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49	49	49	49	
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45	45	45	45	
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	41	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	45583	45583	45583	45583	45583
5°	45859	45588	45979	45588	45859
10°	46303	46115	46424	46115	46303
15°	46307	46710	47280	46710	46307
20°	45400	46465	47400	46465	45400
25°	44076	45111	46337	45111	44076
30°	41275	42682	43682	42682	41275
35°	36902	38395	39133	38395	36902
40°	29986	31182	31748	31182	29986
45°	17342	21766	19322	21766	17342
50°	5632	11381	6164	11381	5632
55°	2204	4056	2145	4056	2204
60°	36	1121	171	1121	36
65°	0	73	0	73	0
70°	0	0	0	0	0
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 21852 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.8	6.4
10°-20°	789.0	18.7
20°-30°	1163.0	27.5
30°-40°	1190.9	28.2
40°-50°	686.2	16.2
50°-60°	120.0	2.8
60°-70°	4.6	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	2221.8	52.6
0°-40°	3412.7	80.8
0°-60°	4218.9	99.9
0°-90°	4223.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4223.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2823	2823	2823	2823	2823	
5°	2830	2813	2837	2813	2830	270
15°	2770	2794	2828	2794	2770	778
25°	2474	2532	2601	2532	2474	1129
35°	1872	1948	1985	1948	1872	1150
45°	760	953	846	953	760	597
55°	78	144	76	144	78	81
65°	0	2	0	2	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2
2.5°	2820.6	2825.2	2829.7	2823.2	2813.0	2812.8	2822.6	2830.8	2834.2	2837.6	2834.2
5°	2829.5	2834.2	2838.9	2828.8	2813.8	2811.7	2822.5	2831.3	2834.1	2836.9	2834.1
7.5°	2825.9	2831.3	2836.6	2829.1	2817.3	2815.5	2823.9	2830.3	2831.0	2831.6	2831.0
10°	2824.2	2828.5	2832.7	2824.6	2812.4	2813.1	2826.7	2836.3	2834.0	2831.6	2834.0
12.5°	2809.0	2815.1	2821.2	2815.6	2806.0	2811.0	2830.7	2844.1	2838.7	2833.3	2838.7
15°	2770.3	2777.8	2785.3	2787.2	2787.2	2801.6	2830.2	2849.2	2838.8	2828.5	2838.8
17.5°	2699.0	2709.1	2719.1	2728.8	2738.3	2761.1	2797.2	2821.2	2809.0	2796.7	2809.0
20°	2642.3	2653.1	2663.9	2676.9	2690.5	2718.0	2759.4	2786.9	2772.8	2758.7	2772.8
22.5°	2580.5	2591.3	2602.2	2616.5	2632.0	2660.8	2702.9	2731.1	2717.4	2703.7	2717.4
25°	2474.1	2486.3	2498.6	2509.0	2518.9	2545.5	2588.7	2618.9	2610.0	2601.0	2610.0
27.5°	2328.1	2339.1	2350.1	2365.9	2383.2	2408.6	2442.2	2466.0	2460.8	2455.5	2460.8
30°	2213.9	2227.5	2241.2	2258.7	2277.5	2301.2	2329.9	2350.5	2346.7	2343.0	2346.7
32.5°	2090.4	2103.2	2116.1	2133.7	2152.9	2172.9	2193.7	2209.6	2211.1	2212.6	2211.1
35°	1872.2	1886.4	1900.5	1919.5	1940.2	1955.7	1966.0	1975.1	1980.3	1985.4	1980.3
37.5°	1607.2	1621.9	1636.7	1653.8	1671.6	1685.8	1696.1	1704.1	1705.0	1706.0	1705.0
40°	1422.7	1432.6	1442.4	1456.9	1472.9	1486.0	1496.4	1504.4	1505.3	1506.3	1505.3
42.5°	1217.9	1224.0	1230.1	1246.5	1266.2	1282.4	1295.0	1300.0	1282.1	1264.2	1282.1
45°	759.5	828.6	897.7	929.8	949.5	957.0	952.3	937.4	891.8	846.2	891.8
47.5°	360.5	433.2	505.8	572.0	636.1	647.1	605.2	558.5	497.6	436.6	497.6
50°	224.2	249.2	274.1	351.2	445.7	460.5	395.6	335.7	290.5	245.4	290.5
52.5°	150.6	163.1	175.6	233.8	307.3	314.0	254.0	203.6	181.7	159.9	181.7
55°	78.3	82.0	85.8	111.1	143.5	144.7	114.6	90.3	83.2	76.2	83.2
57.5°	26.4	33.9	41.3	52.0	63.9	63.7	51.6	40.8	34.1	27.3	34.1
60°	1.1	6.2	11.4	21.9	34.1	35.3	25.4	16.6	10.9	5.3	10.9
62.5°	1.1	2.1	3.1	10.0	18.9	19.3	11.3	4.9	3.4	1.9	3.4
65°	0.0	0.5	0.9	1.4	1.9	1.9	1.4	0.9	0.5	0.0	0.5
67.5°	0.0	0.0	0.0	0.3	0.7	0.8	0.8	0.8	0.4	0.0	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2
2.5°	2830.8	2822.6	2812.8	2813.0	2823.2	2829.7	2825.2	2820.6
5°	2831.3	2822.5	2811.7	2813.8	2828.8	2838.9	2834.2	2829.5
7.5°	2830.3	2823.9	2815.5	2817.3	2829.1	2836.6	2831.3	2825.9
10°	2836.3	2826.7	2813.1	2812.4	2824.6	2832.7	2828.5	2824.2
12.5°	2844.1	2830.7	2811.0	2806.0	2815.6	2821.2	2815.1	2809.0
15°	2849.2	2830.2	2801.6	2787.2	2787.2	2785.3	2777.8	2770.3
17.5°	2821.2	2797.2	2761.1	2738.3	2728.8	2719.1	2709.1	2699.0
20°	2786.9	2759.4	2718.0	2690.5	2676.9	2663.9	2653.1	2642.3
22.5°	2731.1	2702.9	2660.8	2632.0	2616.5	2602.2	2591.3	2580.5
25°	2618.9	2588.7	2545.5	2518.9	2509.0	2498.6	2486.3	2474.1
27.5°	2466.0	2442.2	2408.6	2383.2	2365.9	2350.1	2339.1	2328.1
30°	2350.5	2329.9	2301.2	2277.5	2258.7	2241.2	2227.5	2213.9
32.5°	2209.6	2193.7	2172.9	2152.9	2133.7	2116.1	2103.2	2090.4
35°	1975.1	1966.0	1955.7	1940.2	1919.5	1900.5	1886.4	1872.2
37.5°	1704.1	1696.1	1685.8	1671.6	1653.8	1636.7	1621.9	1607.2
40°	1504.4	1496.4	1486.0	1472.9	1456.9	1442.4	1432.6	1422.7
42.5°	1300.0	1295.0	1282.4	1266.2	1246.5	1230.1	1224.0	1217.9
45°	937.4	952.3	957.0	949.5	929.8	897.7	828.6	759.5
47.5°	558.5	605.2	647.1	636.1	572.0	505.8	433.2	360.5
50°	335.7	395.6	460.5	445.7	351.2	274.1	249.2	224.2
52.5°	203.6	254.0	314.0	307.3	233.8	175.6	163.1	150.6
55°	90.3	114.6	144.7	143.5	111.1	85.8	82.0	78.3
57.5°	40.8	51.6	63.7	63.9	52.0	41.3	33.9	26.4
60°	16.6	25.4	35.3	34.1	21.9	11.4	6.2	1.1
62.5°	4.9	11.3	19.3	18.9	10.0	3.1	2.1	1.1
65°	0.9	1.4	1.9	1.9	1.4	0.9	0.5	0.0
67.5°	0.8	0.8	0.8	0.7	0.3	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)