

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: P709369

Luminaire Tested: DL2W-WB-M-0U-100D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709369
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-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: 4612.2 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.18
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

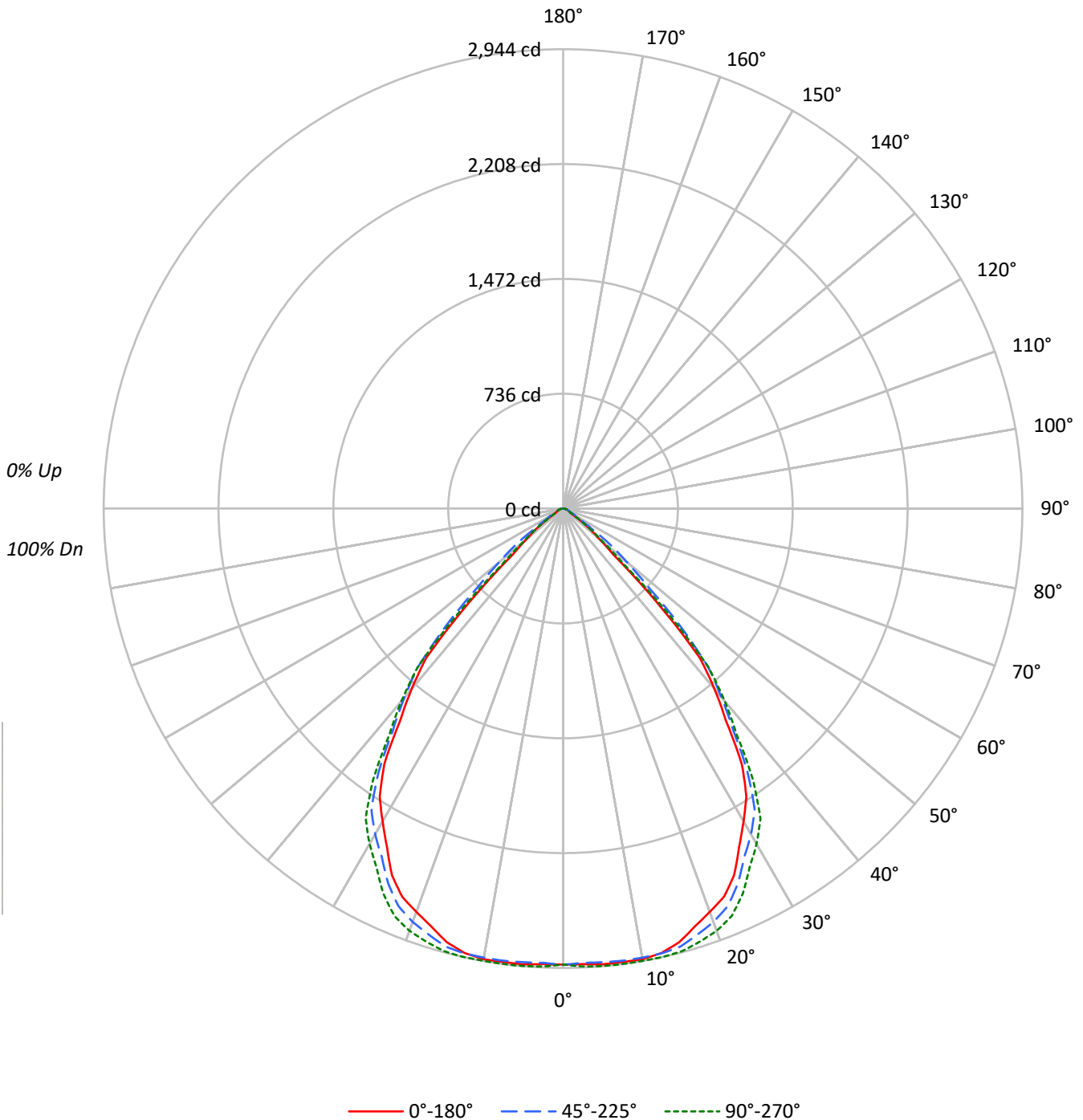
Input Watts (W): 38.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	62
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	47188	47188	47188	47188	47188
5°	47506	47294	47694	47294	47506
10°	48072	47918	48245	47918	48072
15°	48092	48572	49100	48572	48092
20°	47254	48435	49471	48435	47254
25°	46205	47236	48524	47236	46205
30°	43128	44917	46245	44917	43128
35°	39364	40635	41843	40635	39364
40°	31813	33318	33976	33318	31813
45°	19564	24079	21760	24079	19564
50°	7679	13368	8528	13368	7679
55°	4020	6087	4020	6087	4020
60°	1741	2990	1912	2990	1741
65°	1616	1805	1738	1805	1616
70°	1548	1704	1648	1704	1548
75°	1516	1650	1647	1650	1516
80°	1478	1585	1571	1585	1478
85°	1371	1389	1371	1389	1371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 24322 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.0	6.1
10°-20°	820.5	17.8
20°-30°	1217.7	26.4
30°-40°	1264.8	27.4
40°-50°	761.1	16.5
50°-60°	182.3	4.0
60°-70°	49.4	1.1
70°-80°	27.8	0.6
80°-90°	8.7	0.2
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°	2318.1	50.3
0°-40°	3582.9	77.7
0°-60°	4526.3	98.1
0°-90°	4612.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4612.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2923	2923	2923	2923	2923	
5°	2931	2918	2943	2918	2931	280
15°	2877	2906	2937	2906	2877	808
25°	2594	2652	2724	2652	2594	1181
35°	1997	2062	2123	2062	1997	1216
45°	857	1055	953	1055	857	663
55°	143	216	143	216	143	140
65°	42	47	46	47	42	42
75°	24	26	26	26	24	26
85°	7	8	7	8	7	8
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°	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6
2.5°	2922.6	2927.1	2931.6	2924.9	2914.3	2913.8	2923.2	2931.0	2934.0	2937.0	2934.0
5°	2931.1	2936.2	2941.4	2932.5	2918.9	2917.2	2927.5	2936.1	2939.4	2942.7	2939.4
7.5°	2930.4	2936.2	2941.9	2934.3	2922.3	2922.4	2934.7	2943.9	2943.7	2943.6	2943.7
10°	2932.1	2936.4	2940.6	2933.2	2921.9	2923.6	2938.1	2948.4	2945.5	2942.7	2945.5
12.5°	2916.9	2923.4	2929.9	2925.3	2917.0	2922.0	2940.4	2953.0	2948.3	2943.6	2948.3
15°	2877.1	2886.5	2895.9	2898.6	2899.1	2912.5	2938.8	2956.2	2946.8	2937.4	2946.8
17.5°	2807.7	2818.8	2829.9	2840.7	2851.3	2874.4	2910.1	2933.9	2922.2	2910.6	2922.2
20°	2750.2	2762.4	2774.6	2789.3	2804.8	2833.1	2874.0	2901.8	2890.5	2879.2	2890.5
22.5°	2692.7	2701.5	2710.3	2725.0	2741.7	2772.5	2817.5	2848.4	2836.7	2825.1	2836.7
25°	2593.6	2600.7	2607.8	2621.1	2636.7	2666.3	2710.0	2740.7	2732.2	2723.8	2732.2
27.5°	2443.7	2455.7	2467.7	2484.2	2502.2	2530.1	2568.1	2595.9	2593.2	2590.5	2593.2
30°	2313.3	2334.0	2354.7	2375.0	2395.3	2423.2	2459.0	2485.2	2482.8	2480.5	2482.8
32.5°	2186.4	2207.8	2229.3	2251.2	2273.3	2297.9	2325.0	2346.3	2350.3	2354.4	2350.3
35°	1997.1	2007.4	2017.8	2034.1	2052.4	2070.8	2089.1	2105.1	2114.0	2122.9	2114.0
37.5°	1716.8	1729.2	1741.6	1761.2	1783.2	1800.9	1814.4	1825.0	1827.3	1829.5	1827.3
40°	1509.4	1524.5	1539.5	1555.3	1571.3	1590.3	1612.4	1627.1	1619.6	1612.0	1619.6
42.5°	1297.0	1309.8	1322.6	1342.9	1365.6	1386.7	1406.2	1416.2	1397.8	1379.3	1397.8
45°	856.8	925.4	994.1	1027.1	1048.2	1060.9	1065.2	1055.5	1004.3	953.0	1004.3
47.5°	439.4	509.6	579.9	650.7	721.7	738.9	702.4	658.9	594.4	529.9	594.4
50°	305.7	329.7	353.6	429.8	523.4	541.0	482.7	427.9	383.7	339.5	383.7
52.5°	225.3	238.4	251.4	310.2	384.2	392.6	335.5	286.5	262.3	238.0	262.3
55°	142.8	148.4	154.1	181.2	215.5	217.0	185.5	159.7	151.3	142.8	151.3
57.5°	84.4	93.3	102.3	113.7	126.1	126.1	113.9	102.7	94.5	86.3	94.5
60°	53.9	61.0	68.0	79.3	92.0	93.2	82.9	73.3	66.3	59.2	66.3
62.5°	48.9	51.4	53.9	61.8	71.5	72.1	63.7	56.7	54.2	51.6	54.2
65°	42.3	43.7	45.1	46.2	47.1	47.4	46.9	46.4	46.0	45.5	46.0
67.5°	37.0	38.1	39.1	39.6	40.0	40.4	40.9	41.0	40.1	39.1	40.1
70°	32.8	34.2	35.6	36.0	36.0	36.2	36.7	36.8	35.8	34.9	35.8
72.5°	29.4	30.4	31.5	32.0	32.4	32.8	33.3	33.4	32.5	31.5	32.5
75°	24.3	24.8	25.3	25.7	26.2	26.7	27.1	27.4	26.9	26.4	26.9
77.5°	19.3	19.7	20.2	20.6	21.0	21.2	21.3	21.2	20.8	20.3	20.8
80°	15.9	16.3	16.8	16.9	16.9	17.2	17.6	17.9	17.4	16.9	17.4
82.5°	12.5	12.6	12.7	13.0	13.4	13.6	13.7	13.7	13.6	13.5	13.6
85°	7.4	7.4	7.4	7.4	7.4	7.6	8.1	8.3	7.9	7.4	7.9
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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°	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6
2.5°	2931.0	2923.2	2913.8	2914.3	2924.9	2931.6	2927.1	2922.6
5°	2936.1	2927.5	2917.2	2918.9	2932.5	2941.4	2936.2	2931.1
7.5°	2943.9	2934.7	2922.4	2922.3	2934.3	2941.9	2936.2	2930.4
10°	2948.4	2938.1	2923.6	2921.9	2933.2	2940.6	2936.4	2932.1
12.5°	2953.0	2940.4	2922.0	2917.0	2925.3	2929.9	2923.4	2916.9
15°	2956.2	2938.8	2912.5	2899.1	2898.6	2895.9	2886.5	2877.1
17.5°	2933.9	2910.1	2874.4	2851.3	2840.7	2829.9	2818.8	2807.7
20°	2901.8	2874.0	2833.1	2804.8	2789.3	2774.6	2762.4	2750.2
22.5°	2848.4	2817.5	2772.5	2741.7	2725.0	2710.3	2701.5	2692.7
25°	2740.7	2710.0	2666.3	2636.7	2621.1	2607.8	2600.7	2593.6
27.5°	2595.9	2568.1	2530.1	2502.2	2484.2	2467.7	2455.7	2443.7
30°	2485.2	2459.0	2423.2	2395.3	2375.0	2354.7	2334.0	2313.3
32.5°	2346.3	2325.0	2297.9	2273.3	2251.2	2229.3	2207.8	2186.4
35°	2105.1	2089.1	2070.8	2052.4	2034.1	2017.8	2007.4	1997.1
37.5°	1825.0	1814.4	1800.9	1783.2	1761.2	1741.6	1729.2	1716.8
40°	1627.1	1612.4	1590.3	1571.3	1555.3	1539.5	1524.5	1509.4
42.5°	1416.2	1406.2	1386.7	1365.6	1342.9	1322.6	1309.8	1297.0
45°	1055.5	1065.2	1060.9	1048.2	1027.1	994.1	925.4	856.8
47.5°	658.9	702.4	738.9	721.7	650.7	579.9	509.6	439.4
50°	427.9	482.7	541.0	523.4	429.8	353.6	329.7	305.7
52.5°	286.5	335.5	392.6	384.2	310.2	251.4	238.4	225.3
55°	159.7	185.5	217.0	215.5	181.2	154.1	148.4	142.8
57.5°	102.7	113.9	126.1	126.1	113.7	102.3	93.3	84.4
60°	73.3	82.9	93.2	92.0	79.3	68.0	61.0	53.9
62.5°	56.7	63.7	72.1	71.5	61.8	53.9	51.4	48.9
65°	46.4	46.9	47.4	47.1	46.2	45.1	43.7	42.3
67.5°	41.0	40.9	40.4	40.0	39.6	39.1	38.1	37.0
70°	36.8	36.7	36.2	36.0	36.0	35.6	34.2	32.8
72.5°	33.4	33.3	32.8	32.4	32.0	31.5	30.4	29.4
75°	27.4	27.1	26.7	26.2	25.7	25.3	24.8	24.3
77.5°	21.2	21.3	21.2	21.0	20.6	20.2	19.7	19.3
80°	17.9	17.6	17.2	16.9	16.9	16.8	16.3	15.9
82.5°	13.7	13.7	13.6	13.4	13.0	12.7	12.6	12.5
85°	8.3	8.1	7.6	7.4	7.4	7.4	7.4	7.4
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)