

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: P709367

Luminaire Tested: DL2W-WB-M-0U-100D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709367  
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-930-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: 4193.7 lumens  
Efficiency: N/A  
Efficacy: 110.1 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

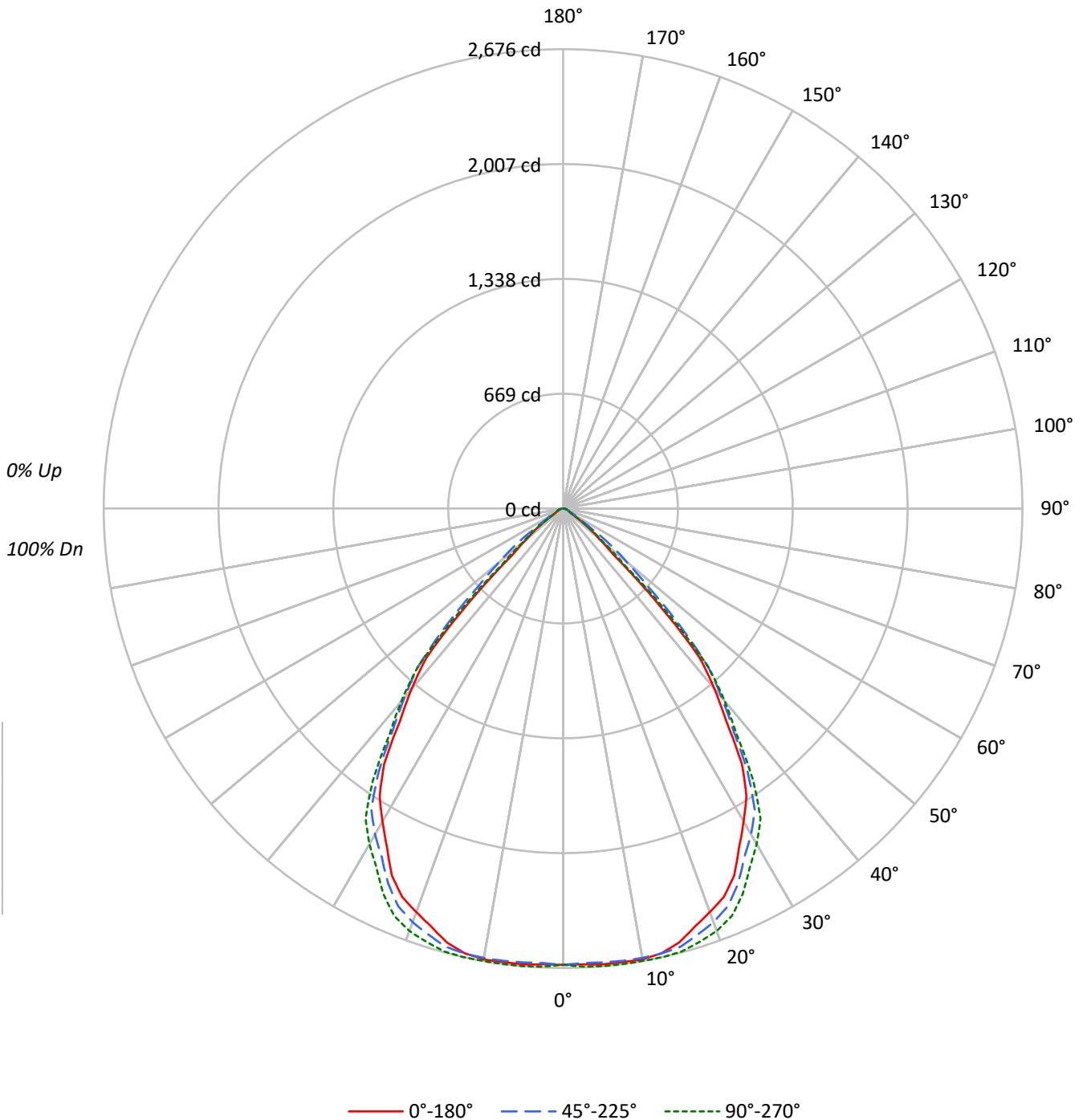
Input Watts (W): 38.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	42908	42908	42908	42908	42908
5°	43195	43003	43366	43003	43195
10°	43710	43570	43868	43570	43710
15°	43729	44165	44645	44165	43729
20°	42967	44041	44983	44041	42967
25°	42013	42950	44121	42950	42013
30°	39217	40842	42049	40842	39217
35°	35792	36948	38047	36948	35792
40°	28928	30295	30895	30295	28928
45°	17790	21895	19788	21895	17790
50°	6983	12155	7754	12155	6983
55°	3654	5536	3654	5536	3654
60°	1586	2719	1741	2719	1586
65°	1471	1643	1582	1643	1471
70°	1407	1548	1496	1548	1407
75°	1379	1500	1497	1500	1379
80°	1339	1441	1432	1441	1339
85°	1241	1260	1241	1260	1241

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 60°  
 Vertical Angle: 45°  
 Luminance: 22114 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.6	6.1
10°-20°	746.0	17.8
20°-30°	1107.2	26.4
30°-40°	1150.0	27.4
40°-50°	692.1	16.5
50°-60°	165.7	4.0
60°-70°	45.0	1.1
70°-80°	25.2	0.6
80°-90°	7.9	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°	2107.8	50.3
0°-40°	3257.8	77.7
0°-60°	4115.6	98.1
0°-90°	4193.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4193.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2658	2658	2658	2658	2658	
5°	2665	2653	2676	2653	2665	254
15°	2616	2642	2671	2642	2616	735
25°	2358	2411	2477	2411	2358	1074
35°	1816	1875	1930	1875	1816	1106
45°	779	959	867	959	779	603
55°	130	197	130	197	130	127
65°	38	43	41	43	38	39
75°	22	24	24	24	22	23
85°	7	7	7	7	7	7
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°	2657.5	2657.5	2657.5	2657.5	2657.5	2657.5	2657.5	2657.5	2657.5	2657.5	2657.5
2.5°	2657.5	2661.6	2665.7	2659.5	2649.9	2649.4	2658.0	2665.1	2667.8	2670.5	2667.8
5°	2665.1	2669.8	2674.5	2666.4	2654.0	2652.5	2661.9	2669.7	2672.7	2675.7	2672.7
7.5°	2664.6	2669.8	2675.0	2668.1	2657.2	2657.3	2668.5	2676.8	2676.7	2676.5	2676.7
10°	2666.1	2670.0	2673.8	2667.1	2656.8	2658.3	2671.6	2680.9	2678.3	2675.7	2678.3
12.5°	2652.3	2658.2	2664.1	2659.9	2652.4	2656.9	2673.6	2685.0	2680.8	2676.5	2680.8
15°	2616.1	2624.6	2633.2	2635.6	2636.1	2648.3	2672.2	2688.0	2679.5	2670.9	2679.5
17.5°	2553.0	2563.1	2573.2	2582.9	2592.6	2613.6	2646.0	2667.7	2657.1	2646.5	2657.1
20°	2500.7	2511.8	2522.9	2536.3	2550.4	2576.0	2613.2	2638.5	2628.3	2618.0	2628.3
22.5°	2448.4	2456.4	2464.4	2477.8	2492.9	2521.0	2561.9	2590.0	2579.4	2568.8	2579.4
25°	2358.3	2364.7	2371.2	2383.3	2397.4	2424.4	2464.1	2492.0	2484.3	2476.6	2484.3
27.5°	2221.9	2232.9	2243.8	2258.8	2275.1	2300.6	2335.1	2360.4	2357.9	2355.4	2357.9
30°	2103.5	2122.3	2141.1	2159.6	2177.9	2203.4	2235.9	2259.7	2257.6	2255.4	2257.6
32.5°	1988.0	2007.5	2027.0	2047.0	2067.1	2089.4	2114.0	2133.4	2137.1	2140.8	2137.1
35°	1815.9	1825.3	1834.7	1849.5	1866.2	1882.9	1899.6	1914.1	1922.2	1930.3	1922.2
37.5°	1561.0	1572.3	1583.6	1601.4	1621.4	1637.5	1649.7	1659.4	1661.5	1663.5	1661.5
40°	1372.5	1386.2	1399.8	1414.2	1428.7	1446.0	1466.1	1479.5	1472.6	1465.8	1472.6
42.5°	1179.4	1191.0	1202.6	1221.0	1241.7	1260.9	1278.6	1287.7	1270.9	1254.2	1270.9
45°	779.1	841.5	903.9	933.9	953.1	964.7	968.5	959.8	913.2	866.6	913.2
47.5°	399.5	463.4	527.3	591.6	656.2	671.9	638.7	599.2	540.5	481.9	540.5
50°	278.0	299.8	321.6	390.8	475.9	491.9	438.9	389.1	348.9	308.7	348.9
52.5°	204.9	216.7	228.6	282.1	349.3	357.0	305.0	260.5	238.5	216.4	238.5
55°	129.8	135.0	140.1	164.8	196.0	197.3	168.6	145.2	137.5	129.8	137.5
57.5°	76.8	84.9	93.0	103.4	114.6	114.7	103.6	93.4	85.9	78.5	85.9
60°	49.1	55.5	61.9	72.1	83.7	84.7	75.3	66.7	60.3	53.9	60.3
62.5°	44.4	46.7	49.1	56.2	65.0	65.6	57.9	51.6	49.2	46.9	49.2
65°	38.5	39.8	41.0	42.0	42.9	43.1	42.6	42.2	41.8	41.4	41.8
67.5°	33.7	34.6	35.5	36.0	36.4	36.8	37.2	37.3	36.4	35.6	36.4
70°	29.8	31.1	32.4	32.7	32.7	32.9	33.3	33.4	32.6	31.7	32.6
72.5°	26.7	27.7	28.6	29.1	29.5	29.8	30.3	30.4	29.5	28.7	29.5
75°	22.1	22.5	23.0	23.4	23.8	24.3	24.7	24.9	24.5	24.0	24.5
77.5°	17.5	17.9	18.4	18.7	19.1	19.3	19.4	19.3	18.9	18.5	18.9
80°	14.4	14.9	15.3	15.4	15.4	15.6	16.0	16.2	15.8	15.4	15.8
82.5°	11.3	11.4	11.5	11.8	12.1	12.4	12.4	12.5	12.4	12.3	12.4
85°	6.7	6.7	6.7	6.7	6.7	6.9	7.4	7.6	7.2	6.7	7.2
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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°	2657.5	2657.5	2657.5	2657.5	2657.5	2657.5	2657.5	2657.5
2.5°	2665.1	2658.0	2649.4	2649.9	2659.5	2665.7	2661.6	2657.5
5°	2669.7	2661.9	2652.5	2654.0	2666.4	2674.5	2669.8	2665.1
7.5°	2676.8	2668.5	2657.3	2657.2	2668.1	2675.0	2669.8	2664.6
10°	2680.9	2671.6	2658.3	2656.8	2667.1	2673.8	2670.0	2666.1
12.5°	2685.0	2673.6	2656.9	2652.4	2659.9	2664.1	2658.2	2652.3
15°	2688.0	2672.2	2648.3	2636.1	2635.6	2633.2	2624.6	2616.1
17.5°	2667.7	2646.0	2613.6	2592.6	2582.9	2573.2	2563.1	2553.0
20°	2638.5	2613.2	2576.0	2550.4	2536.3	2522.9	2511.8	2500.7
22.5°	2590.0	2561.9	2521.0	2492.9	2477.8	2464.4	2456.4	2448.4
25°	2492.0	2464.1	2424.4	2397.4	2383.3	2371.2	2364.7	2358.3
27.5°	2360.4	2335.1	2300.6	2275.1	2258.8	2243.8	2232.9	2221.9
30°	2259.7	2235.9	2203.4	2177.9	2159.6	2141.1	2122.3	2103.5
32.5°	2133.4	2114.0	2089.4	2067.1	2047.0	2027.0	2007.5	1988.0
35°	1914.1	1899.6	1882.9	1866.2	1849.5	1834.7	1825.3	1815.9
37.5°	1659.4	1649.7	1637.5	1621.4	1601.4	1583.6	1572.3	1561.0
40°	1479.5	1466.1	1446.0	1428.7	1414.2	1399.8	1386.2	1372.5
42.5°	1287.7	1278.6	1260.9	1241.7	1221.0	1202.6	1191.0	1179.4
45°	959.8	968.5	964.7	953.1	933.9	903.9	841.5	779.1
47.5°	599.2	638.7	671.9	656.2	591.6	527.3	463.4	399.5
50°	389.1	438.9	491.9	475.9	390.8	321.6	299.8	278.0
52.5°	260.5	305.0	357.0	349.3	282.1	228.6	216.7	204.9
55°	145.2	168.6	197.3	196.0	164.8	140.1	135.0	129.8
57.5°	93.4	103.6	114.7	114.6	103.4	93.0	84.9	76.8
60°	66.7	75.3	84.7	83.7	72.1	61.9	55.5	49.1
62.5°	51.6	57.9	65.6	65.0	56.2	49.1	46.7	44.4
65°	42.2	42.6	43.1	42.9	42.0	41.0	39.8	38.5
67.5°	37.3	37.2	36.8	36.4	36.0	35.5	34.6	33.7
70°	33.4	33.3	32.9	32.7	32.7	32.4	31.1	29.8
72.5°	30.4	30.3	29.8	29.5	29.1	28.6	27.7	26.7
75°	24.9	24.7	24.3	23.8	23.4	23.0	22.5	22.1
77.5°	19.3	19.4	19.3	19.1	18.7	18.4	17.9	17.5
80°	16.2	16.0	15.6	15.4	15.4	15.3	14.9	14.4
82.5°	12.5	12.4	12.4	12.1	11.8	11.5	11.4	11.3
85°	7.6	7.4	6.9	6.7	6.7	6.7	6.7	6.7
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)