

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: P709283

Luminaire Tested: DL2W-BB-M-OU-100D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

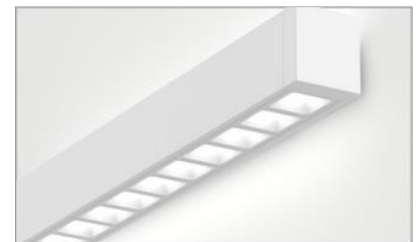
**Test Information**

Test Method: LM-79-2019  
Report Number: P709283  
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-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**

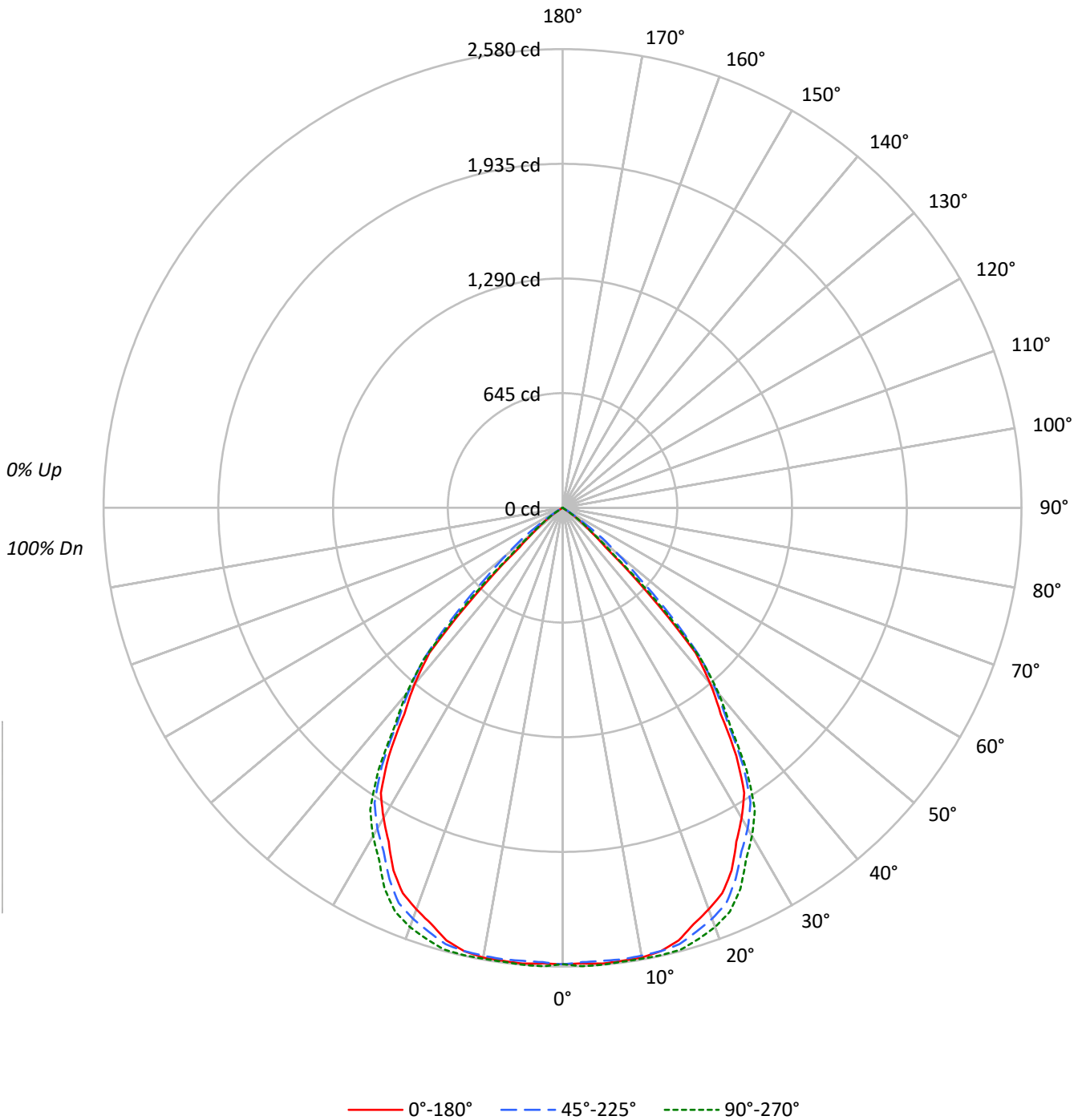
Lumens per Lamp: N/A  
Luminaire Lumens: 3840.3 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.16  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°	135°	180°
0°	41446	41446	41446	41446	41446
5°	41699	41452	41807	41452	41699
10°	42102	41930	42212	41930	42102
15°	42104	42471	42989	42471	42104
20°	41282	42249	43099	42249	41282
25°	40077	41018	42134	41018	40077
30°	37530	38809	39718	38809	37530
35°	33555	34912	35583	34912	33555
40°	27265	28353	28867	28353	27265
45°	15769	19792	17568	19792	15769
50°	5122	10348	5604	10348	5122
55°	2004	3689	1948	3689	2004
60°	32	1019	155	1019	32
65°	0	65	0	65	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: 19870 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.3	6.4
10°-20°	717.4	18.7
20°-30°	1057.5	27.5
30°-40°	1082.9	28.2
40°-50°	624.0	16.2
50°-60°	109.1	2.8
60°-70°	4.2	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°	2020.2	52.6
0°-40°	3103.1	80.8
0°-60°	3836.2	99.9
0°-90°	3840.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3840.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2567	2567	2567	2567	2567	
5°	2573	2558	2580	2558	2573	245
15°	2519	2541	2572	2541	2519	707
25°	2250	2302	2365	2302	2250	1027
35°	1702	1771	1805	1771	1702	1045
45°	691	867	769	867	691	543
55°	71	131	69	131	71	73
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°	2567.0	2567.0	2567.0	2567.0	2567.0	2567.0	2567.0	2567.0	2567.0	2567.0	2567.0
2.5°	2564.7	2568.8	2572.9	2567.0	2557.8	2557.6	2566.5	2574.0	2577.0	2580.1	2577.0
5°	2572.8	2577.1	2581.4	2572.2	2558.5	2556.6	2566.4	2574.4	2577.0	2579.5	2577.0
7.5°	2569.5	2574.4	2579.3	2572.4	2561.7	2560.1	2567.7	2573.5	2574.1	2574.7	2574.1
10°	2568.0	2571.8	2575.7	2568.3	2557.2	2557.8	2570.2	2579.0	2576.9	2574.7	2576.9
12.5°	2554.1	2559.7	2565.3	2560.1	2551.4	2556.0	2573.8	2586.0	2581.1	2576.3	2581.1
15°	2518.9	2525.8	2532.6	2534.3	2534.3	2547.4	2573.5	2590.7	2581.3	2571.8	2581.3
17.5°	2454.1	2463.3	2472.4	2481.2	2489.8	2510.5	2543.4	2565.2	2554.1	2543.0	2554.1
20°	2402.6	2412.4	2422.2	2434.0	2446.4	2471.4	2509.0	2534.0	2521.2	2508.4	2521.2
22.5°	2346.4	2356.2	2366.1	2379.1	2393.2	2419.4	2457.7	2483.3	2470.8	2458.4	2470.8
25°	2249.6	2260.8	2271.9	2281.4	2290.4	2314.5	2353.8	2381.3	2373.2	2365.1	2373.2
27.5°	2116.9	2126.9	2136.9	2151.2	2167.0	2190.1	2220.6	2242.3	2237.5	2232.7	2237.5
30°	2013.0	2025.4	2037.8	2053.8	2070.9	2092.4	2118.5	2137.2	2133.8	2130.4	2133.8
32.5°	1900.7	1912.4	1924.1	1940.1	1957.6	1975.7	1994.6	2009.2	2010.5	2011.9	2010.5
35°	1702.4	1715.2	1728.0	1745.3	1764.2	1778.3	1787.7	1795.9	1800.6	1805.3	1800.6
37.5°	1461.4	1474.8	1488.2	1503.7	1520.0	1532.8	1542.2	1549.5	1550.3	1551.2	1550.3
40°	1293.6	1302.6	1311.6	1324.7	1339.2	1351.2	1360.6	1367.9	1368.7	1369.6	1368.7
42.5°	1107.4	1113.0	1118.5	1133.4	1151.3	1166.0	1177.5	1182.0	1165.8	1149.5	1165.8
45°	690.6	753.4	816.2	845.4	863.4	870.2	865.9	852.4	810.9	769.4	810.9
47.5°	327.8	393.9	460.0	520.1	578.4	588.4	550.3	507.8	452.4	397.0	452.4
50°	203.9	226.6	249.2	319.3	405.2	418.7	359.7	305.2	264.2	223.1	264.2
52.5°	137.0	148.3	159.7	212.6	279.4	285.5	231.0	185.1	165.3	145.4	165.3
55°	71.2	74.6	78.0	101.0	130.5	131.6	104.2	82.1	75.7	69.2	75.7
57.5°	24.0	30.8	37.6	47.3	58.1	58.0	46.9	37.1	31.0	24.8	31.0
60°	1.0	5.7	10.4	19.9	31.0	32.1	23.1	15.1	9.9	4.8	9.9
62.5°	1.0	1.9	2.8	9.1	17.1	17.5	10.3	4.5	3.1	1.7	3.1
65°	0.0	0.4	0.9	1.3	1.7	1.7	1.3	0.9	0.4	0.0	0.4
67.5°	0.0	0.0	0.0	0.3	0.6	0.8	0.8	0.7	0.3	0.0	0.3
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°	2567.0	2567.0	2567.0	2567.0	2567.0	2567.0	2567.0	2567.0
2.5°	2574.0	2566.5	2557.6	2557.8	2567.0	2572.9	2568.8	2564.7
5°	2574.4	2566.4	2556.6	2558.5	2572.2	2581.4	2577.1	2572.8
7.5°	2573.5	2567.7	2560.1	2561.7	2572.4	2579.3	2574.4	2569.5
10°	2579.0	2570.2	2557.8	2557.2	2568.3	2575.7	2571.8	2568.0
12.5°	2586.0	2573.8	2556.0	2551.4	2560.1	2565.3	2559.7	2554.1
15°	2590.7	2573.5	2547.4	2534.3	2534.3	2532.6	2525.8	2518.9
17.5°	2565.2	2543.4	2510.5	2489.8	2481.2	2472.4	2463.3	2454.1
20°	2534.0	2509.0	2471.4	2446.4	2434.0	2422.2	2412.4	2402.6
22.5°	2483.3	2457.7	2419.4	2393.2	2379.1	2366.1	2356.2	2346.4
25°	2381.3	2353.8	2314.5	2290.4	2281.4	2271.9	2260.8	2249.6
27.5°	2242.3	2220.6	2190.1	2167.0	2151.2	2136.9	2126.9	2116.9
30°	2137.2	2118.5	2092.4	2070.9	2053.8	2037.8	2025.4	2013.0
32.5°	2009.2	1994.6	1975.7	1957.6	1940.1	1924.1	1912.4	1900.7
35°	1795.9	1787.7	1778.3	1764.2	1745.3	1728.0	1715.2	1702.4
37.5°	1549.5	1542.2	1532.8	1520.0	1503.7	1488.2	1474.8	1461.4
40°	1367.9	1360.6	1351.2	1339.2	1324.7	1311.6	1302.6	1293.6
42.5°	1182.0	1177.5	1166.0	1151.3	1133.4	1118.5	1113.0	1107.4
45°	852.4	865.9	870.2	863.4	845.4	816.2	753.4	690.6
47.5°	507.8	550.3	588.4	578.4	520.1	460.0	393.9	327.8
50°	305.2	359.7	418.7	405.2	319.3	249.2	226.6	203.9
52.5°	185.1	231.0	285.5	279.4	212.6	159.7	148.3	137.0
55°	82.1	104.2	131.6	130.5	101.0	78.0	74.6	71.2
57.5°	37.1	46.9	58.0	58.1	47.3	37.6	30.8	24.0
60°	15.1	23.1	32.1	31.0	19.9	10.4	5.7	1.0
62.5°	4.5	10.3	17.5	17.1	9.1	2.8	1.9	1.0
65°	0.9	1.3	1.7	1.7	1.3	0.9	0.4	0.0
67.5°	0.7	0.8	0.8	0.6	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)