

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: P709362

Luminaire Tested: DL2W-WB-M-0U-050D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

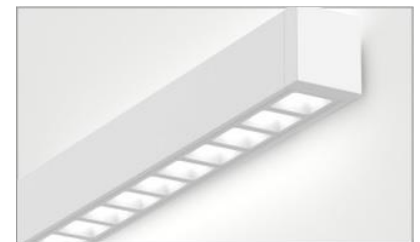
**Test Information**

Test Method: LM-79-2019  
Report Number: P709362  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-WB-M-0U-050D-935-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2192.4 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.17  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

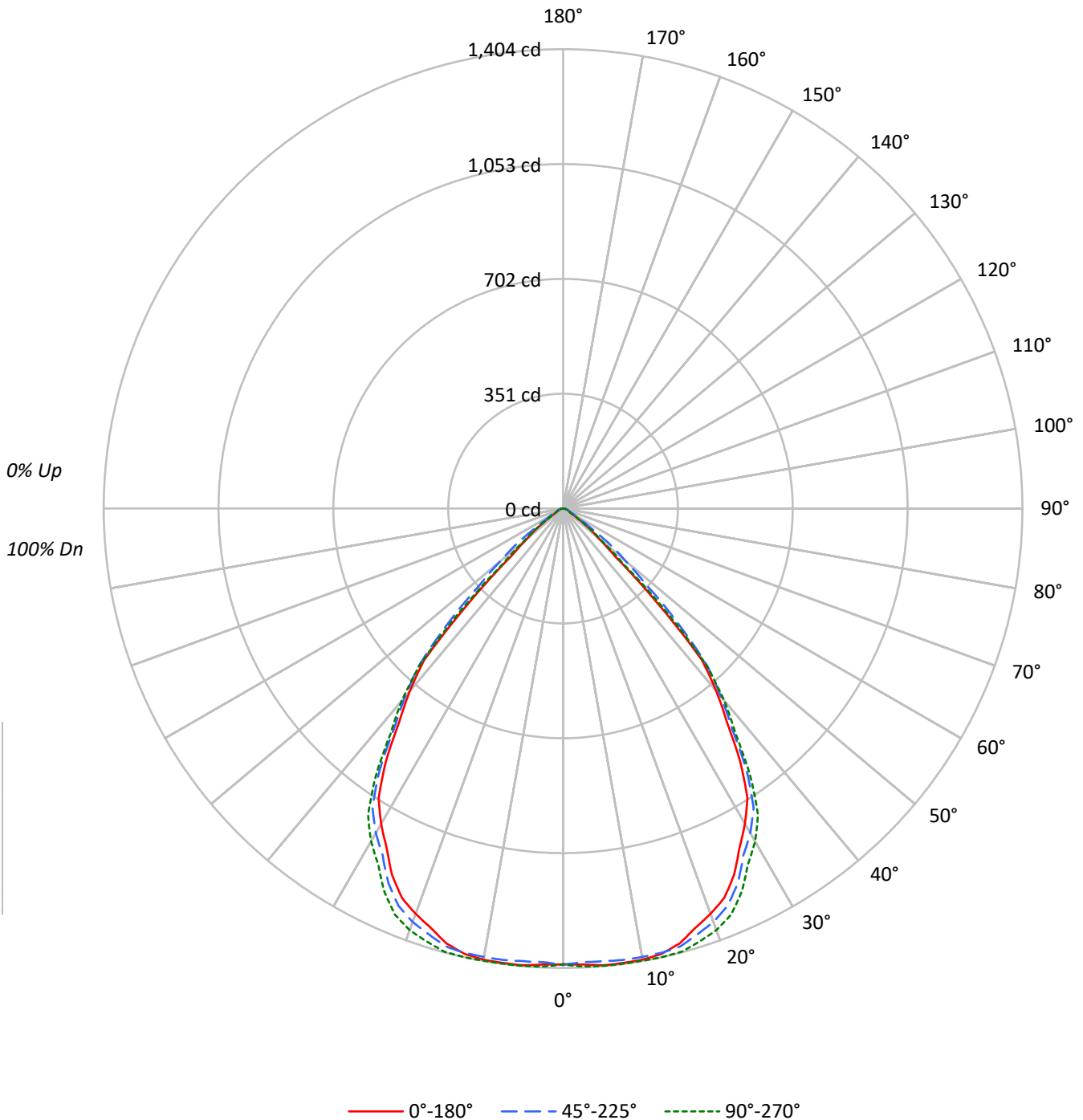
Input Watts (W): 18.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	85	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	65	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	61	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°	22491	22491	22491	22491	22491
5°	22707	22503	22739	22503	22707
10°	22953	22810	23002	22810	22953
15°	23000	23156	23435	23156	23000
20°	22646	23097	23557	23097	22646
25°	22019	22502	23017	22502	22019
30°	20732	21333	21888	21333	20732
35°	18607	19295	19671	19295	18607
40°	15365	15823	16166	15823	15365
45°	9225	11424	10229	11424	9225
50°	3642	6300	3969	6300	3642
55°	1942	2859	1914	2859	1942
60°	840	1426	904	1426	840
65°	764	867	802	867	764
70°	755	807	803	807	755
75°	686	805	749	805	686
80°	651	744	744	744	651
85°	556	741	741	741	556

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 60°  
 Vertical Angle: 45°  
 Luminance: 11501 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.4	6.1
10°-20°	391.4	17.9
20°-30°	579.5	26.4
30°-40°	600.3	27.4
40°-50°	360.8	16.5
50°-60°	86.2	3.9
60°-70°	23.5	1.1
70°-80°	13.1	0.6
80°-90°	4.2	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°	1104.3	50.4
0°-40°	1704.6	77.8
0°-60°	2151.6	98.1
0°-90°	2192.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2192.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1393	1393	1393	1393	1393	
5°	1401	1388	1403	1388	1401	134
15°	1376	1385	1402	1385	1376	387
25°	1236	1263	1292	1263	1236	565
35°	944	979	998	979	944	582
45°	404	500	448	500	404	318
55°	69	102	68	102	69	67
65°	20	23	21	23	20	20
75°	11	13	12	13	11	12
85°	3	4	4	4	3	3
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°	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0
2.5°	1394.6	1396.0	1397.4	1393.5	1387.8	1387.5	1392.5	1396.7	1398.9	1401.0	1398.9
5°	1401.0	1401.9	1402.8	1397.0	1389.0	1387.9	1393.7	1398.6	1400.8	1403.0	1400.8
7.5°	1400.8	1402.1	1403.5	1398.8	1392.1	1391.2	1396.1	1400.2	1401.6	1403.0	1401.6
10°	1400.0	1401.3	1402.7	1398.0	1391.3	1391.3	1398.0	1403.0	1403.0	1403.0	1403.0
12.5°	1393.6	1395.6	1397.7	1394.5	1389.6	1391.8	1400.9	1407.4	1405.6	1403.8	1405.6
15°	1376.0	1379.1	1382.2	1382.7	1382.2	1388.4	1401.3	1410.0	1406.0	1402.0	1406.0
17.5°	1343.6	1347.9	1352.1	1355.8	1359.3	1369.9	1387.7	1399.4	1393.2	1387.0	1393.2
20°	1318.0	1321.6	1325.1	1331.0	1337.7	1350.8	1370.3	1383.4	1377.2	1371.0	1377.2
22.5°	1287.6	1291.5	1295.4	1301.1	1307.4	1321.1	1342.1	1356.2	1349.6	1343.0	1349.6
25°	1236.0	1239.6	1243.1	1249.3	1256.4	1269.8	1289.3	1302.7	1297.3	1292.0	1297.3
27.5°	1168.0	1171.9	1175.8	1181.8	1188.5	1200.2	1217.1	1229.2	1226.8	1224.4	1226.8
30°	1112.0	1117.3	1122.7	1130.3	1138.8	1149.7	1163.0	1173.1	1173.6	1174.0	1173.6
32.5°	1048.8	1055.9	1063.0	1070.9	1079.0	1089.1	1101.4	1110.4	1109.8	1109.2	1109.8
35°	944.0	951.6	959.1	967.0	975.0	982.8	990.3	996.2	997.1	998.0	997.1
37.5°	822.6	825.5	828.5	835.7	844.3	852.6	860.7	866.6	866.0	865.4	866.0
40°	729.0	729.4	729.9	737.0	746.3	755.2	763.7	769.7	768.3	767.0	768.3
42.5°	629.0	630.9	632.7	640.5	650.2	658.2	664.5	666.7	656.9	647.0	656.9
45°	404.0	436.9	469.8	486.3	497.4	503.2	503.7	497.8	472.9	448.0	472.9
47.5°	211.4	243.8	276.3	309.1	342.1	349.8	332.3	311.4	280.3	249.2	280.3
50°	145.0	156.1	167.2	203.0	247.0	254.6	225.7	198.9	178.4	158.0	178.4
52.5°	105.8	112.6	119.5	147.3	182.0	185.1	156.6	132.7	122.5	112.4	122.5
55°	69.0	70.8	72.6	85.0	101.0	102.1	88.3	76.9	72.4	68.0	72.4
57.5°	41.2	44.9	48.7	54.3	60.6	60.8	54.9	49.4	45.5	41.6	45.5
60°	26.0	28.7	31.3	37.0	43.7	44.6	39.7	35.1	31.6	28.0	31.6
62.5°	23.6	24.5	25.4	29.3	34.2	34.5	30.3	26.9	25.9	24.8	25.9
65°	20.0	20.4	20.9	21.7	22.6	22.8	22.3	21.9	21.4	21.0	21.4
67.5°	17.6	18.0	18.5	18.9	19.2	19.4	19.5	19.5	19.0	18.6	19.0
70°	16.0	16.4	16.9	17.0	17.0	17.2	17.7	17.9	17.4	17.0	17.4
72.5°	14.4	14.5	14.6	14.9	15.2	15.4	15.5	15.6	15.5	15.4	15.5
75°	11.0	11.4	11.9	12.3	12.8	13.0	13.0	12.9	12.4	12.0	12.4
77.5°	8.6	9.0	9.5	9.6	9.6	9.8	10.1	10.3	10.0	9.6	10.0
80°	7.0	7.4	7.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
82.5°	5.4	5.8	6.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
85°	3.0	3.4	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	0.8	0.8	0.8	1.1	1.4	1.6	1.6	1.6	1.6	1.6	1.6
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°	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0
2.5°	1396.7	1392.5	1387.5	1387.8	1393.5	1397.4	1396.0	1394.6
5°	1398.6	1393.7	1387.9	1389.0	1397.0	1402.8	1401.9	1401.0
7.5°	1400.2	1396.1	1391.2	1392.1	1398.8	1403.5	1402.1	1400.8
10°	1403.0	1398.0	1391.3	1391.3	1398.0	1402.7	1401.3	1400.0
12.5°	1407.4	1400.9	1391.8	1389.6	1394.5	1397.7	1395.6	1393.6
15°	1410.0	1401.3	1388.4	1382.2	1382.7	1382.2	1379.1	1376.0
17.5°	1399.4	1387.7	1369.9	1359.3	1355.8	1352.1	1347.9	1343.6
20°	1383.4	1370.3	1350.8	1337.7	1331.0	1325.1	1321.6	1318.0
22.5°	1356.2	1342.1	1321.1	1307.4	1301.1	1295.4	1291.5	1287.6
25°	1302.7	1289.3	1269.8	1256.4	1249.3	1243.1	1239.6	1236.0
27.5°	1229.2	1217.1	1200.2	1188.5	1181.8	1175.8	1171.9	1168.0
30°	1173.1	1163.0	1149.7	1138.8	1130.3	1122.7	1117.3	1112.0
32.5°	1110.4	1101.4	1089.1	1079.0	1070.9	1063.0	1055.9	1048.8
35°	996.2	990.3	982.8	975.0	967.0	959.1	951.6	944.0
37.5°	866.6	860.7	852.6	844.3	835.7	828.5	825.5	822.6
40°	769.7	763.7	755.2	746.3	737.0	729.9	729.4	729.0
42.5°	666.7	664.5	658.2	650.2	640.5	632.7	630.9	629.0
45°	497.8	503.7	503.2	497.4	486.3	469.8	436.9	404.0
47.5°	311.4	332.3	349.8	342.1	309.1	276.3	243.8	211.4
50°	198.9	225.7	254.6	247.0	203.0	167.2	156.1	145.0
52.5°	132.7	156.6	185.1	182.0	147.3	119.5	112.6	105.8
55°	76.9	88.3	102.1	101.0	85.0	72.6	70.8	69.0
57.5°	49.4	54.9	60.8	60.6	54.3	48.7	44.9	41.2
60°	35.1	39.7	44.6	43.7	37.0	31.3	28.7	26.0
62.5°	26.9	30.3	34.5	34.2	29.3	25.4	24.5	23.6
65°	21.9	22.3	22.8	22.6	21.7	20.9	20.4	20.0
67.5°	19.5	19.5	19.4	19.2	18.9	18.5	18.0	17.6
70°	17.9	17.7	17.2	17.0	17.0	16.9	16.4	16.0
72.5°	15.6	15.5	15.4	15.2	14.9	14.6	14.5	14.4
75°	12.9	13.0	13.0	12.8	12.3	11.9	11.4	11.0
77.5°	10.3	10.1	9.8	9.6	9.6	9.5	9.0	8.6
80°	8.0	8.0	8.0	8.0	8.0	7.9	7.4	7.0
82.5°	6.4	6.4	6.4	6.4	6.4	6.3	5.8	5.4
85°	4.0	4.0	4.0	4.0	4.0	3.9	3.4	3.0
87.5°	1.6	1.6	1.6	1.4	1.1	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)