

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: P709279

Luminaire Tested: DL2W-BB-M-OU-050D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

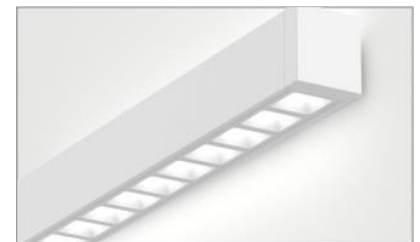
Test Information

Test Method: LM-79-2019
Report Number: P709279
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-0U-050D-940-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: 2123.9 lumens
Efficiency: N/A
Efficacy: 117.3 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

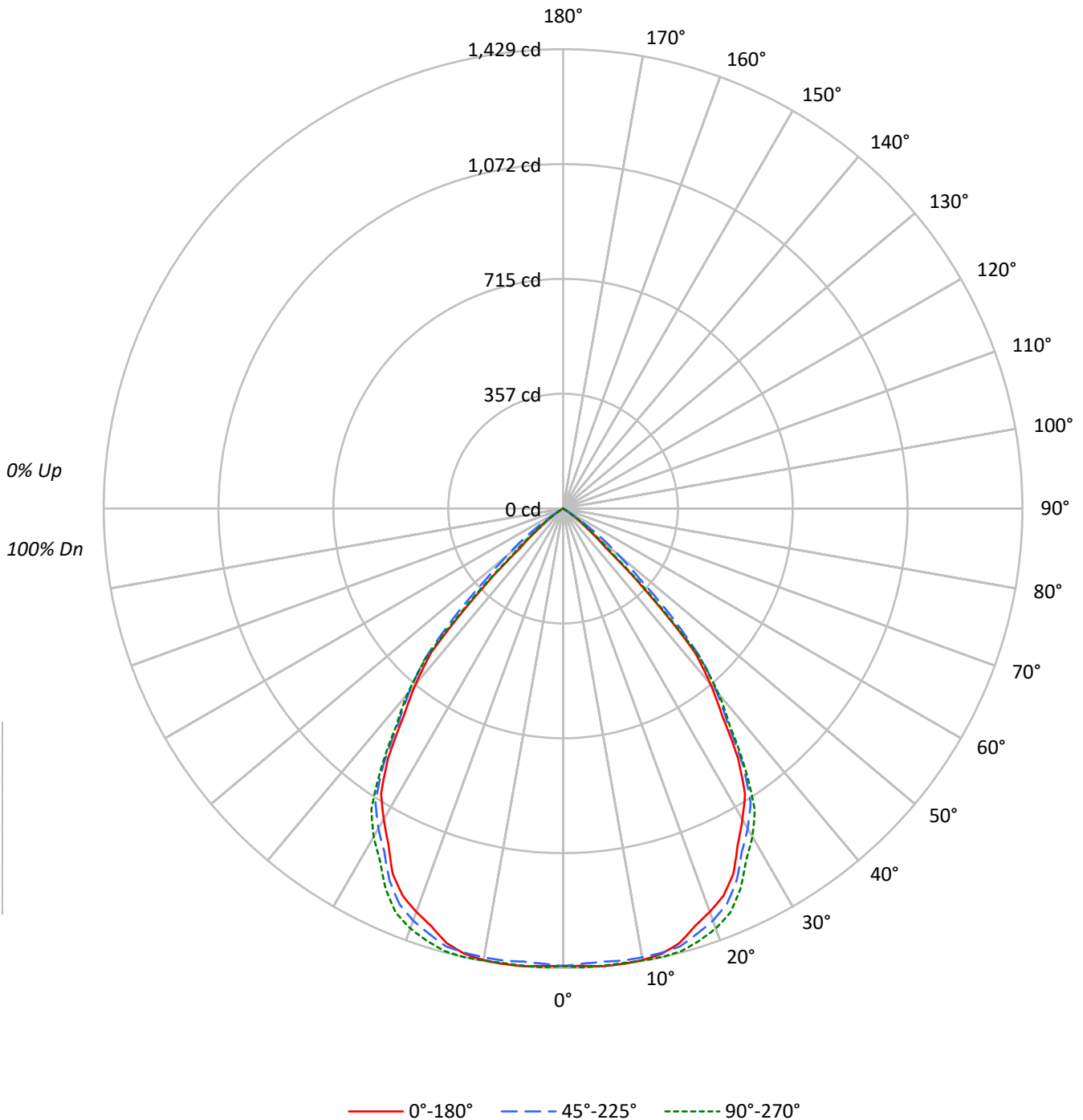
Input Watts (W): 18.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	90	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	72	67	76	70	66	74	69	66	72	68	65	63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58
7	78	67	61	56	76	67	60	56	65	60	55	64	59	55	63	58	55	53
8	73	63	56	51	72	62	55	51	61	55	51	60	54	51	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	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22971	22971	22971	22971	22971
5°	23161	22929	23127	22929	23161
10°	23378	23239	23394	23239	23378
15°	23392	23559	23816	23559	23392
20°	22936	23434	23881	23434	22936
25°	22331	22747	23254	22747	22331
30°	20804	21410	21970	21410	20804
35°	18701	19246	19474	19246	18701
40°	15049	15663	15896	15663	15049
45°	8720	10990	9371	10990	8720
50°	2816	5668	3162	5668	2816
55°	1132	1996	1072	1996	1132
60°	36	560	103	560	36
65°	0	31	0	31	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: 11036 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	6.4
10°-20°	397.9	18.7
20°-30°	585.6	27.6
30°-40°	598.3	28.2
40°-50°	343.9	16.2
50°-60°	60.1	2.8
60°-70°	2.2	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°	1119.5	52.7
0°-40°	1717.7	80.9
0°-60°	2121.8	99.9
0°-90°	2123.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2123.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1423	1423	1423	1423	1423	
5°	1429	1415	1427	1415	1429	136
15°	1399	1409	1425	1409	1399	393
25°	1254	1277	1305	1277	1254	571
35°	949	976	988	976	949	581
45°	382	481	410	481	382	299
55°	40	71	38	71	40	41
65°	0	1	0	1	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°	1422.7	1422.7	1422.7	1422.7	1422.7	1422.7	1422.7	1422.7	1422.7	1422.7	1422.7
2.5°	1423.5	1425.0	1426.6	1422.7	1417.1	1416.7	1421.6	1425.6	1427.1	1428.6	1427.1
5°	1429.0	1430.0	1430.9	1424.5	1415.5	1413.9	1419.5	1424.1	1425.5	1426.9	1425.5
7.5°	1428.4	1430.3	1432.2	1426.8	1419.0	1417.0	1420.7	1423.8	1425.0	1426.1	1425.0
10°	1425.9	1427.7	1429.6	1424.8	1417.8	1417.1	1422.7	1426.9	1426.9	1426.9	1426.9
12.5°	1418.3	1420.9	1423.5	1420.0	1414.5	1416.4	1425.8	1432.4	1430.5	1428.6	1430.5
15°	1399.4	1402.7	1406.0	1406.5	1406.0	1412.8	1426.9	1436.1	1430.5	1424.8	1430.5
17.5°	1362.0	1367.0	1371.9	1376.5	1380.9	1392.8	1412.0	1424.6	1417.0	1409.4	1417.0
20°	1334.9	1339.1	1343.4	1349.7	1356.8	1370.9	1392.0	1405.9	1397.9	1389.9	1397.9
22.5°	1303.6	1308.2	1312.8	1318.4	1324.3	1338.4	1360.7	1375.5	1367.9	1360.3	1367.9
25°	1253.5	1256.3	1259.1	1264.4	1270.5	1283.2	1302.5	1315.6	1310.5	1305.3	1310.5
27.5°	1176.9	1181.6	1186.3	1192.2	1198.5	1210.0	1226.7	1238.6	1236.0	1233.4	1236.0
30°	1115.9	1122.5	1129.1	1136.0	1143.1	1153.7	1167.8	1178.4	1178.4	1178.4	1178.4
32.5°	1053.3	1059.5	1065.7	1073.4	1081.6	1090.3	1099.5	1106.8	1108.3	1109.8	1108.3
35°	948.8	954.0	959.2	965.7	972.8	980.1	987.6	992.7	990.3	988.0	990.3
37.5°	814.7	818.3	821.8	828.8	836.9	844.8	852.5	857.7	855.5	853.2	855.5
40°	714.0	718.7	723.4	730.9	739.4	746.9	753.5	757.9	756.1	754.2	756.1
42.5°	606.5	612.7	618.9	627.4	636.6	644.3	650.5	652.6	642.5	632.3	642.5
45°	381.9	417.1	452.4	468.9	479.3	483.3	480.9	471.5	441.0	410.4	441.0
47.5°	179.8	214.7	249.6	284.2	318.7	324.8	302.5	277.8	245.8	213.9	245.8
50°	112.1	124.8	137.5	175.6	222.1	229.2	196.7	167.2	146.6	125.9	146.6
52.5°	75.7	82.0	88.3	117.5	154.2	156.8	125.1	99.1	90.1	81.0	90.1
55°	40.2	42.1	44.0	55.7	70.8	71.0	56.4	44.7	41.4	38.1	41.4
57.5°	15.4	18.2	20.9	26.2	32.3	32.2	26.0	20.6	17.4	14.2	17.4
60°	1.1	3.4	5.8	10.9	17.0	17.7	13.0	8.8	6.0	3.2	6.0
62.5°	0.2	0.7	1.2	4.7	9.3	9.7	5.7	2.5	1.6	0.6	1.6
65°	0.0	0.0	0.0	0.4	0.8	0.8	0.4	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1422.7	1422.7	1422.7	1422.7	1422.7	1422.7	1422.7	1422.7
2.5°	1425.6	1421.6	1416.7	1417.1	1422.7	1426.6	1425.0	1423.5
5°	1424.1	1419.5	1413.9	1415.5	1424.5	1430.9	1430.0	1429.0
7.5°	1423.8	1420.7	1417.0	1419.0	1426.8	1432.2	1430.3	1428.4
10°	1426.9	1422.7	1417.1	1417.8	1424.8	1429.6	1427.7	1425.9
12.5°	1432.4	1425.8	1416.4	1414.5	1420.0	1423.5	1420.9	1418.3
15°	1436.1	1426.9	1412.8	1406.0	1406.5	1406.0	1402.7	1399.4
17.5°	1424.6	1412.0	1392.8	1380.9	1376.5	1371.9	1367.0	1362.0
20°	1405.9	1392.0	1370.9	1356.8	1349.7	1343.4	1339.1	1334.9
22.5°	1375.5	1360.7	1338.4	1324.3	1318.4	1312.8	1308.2	1303.6
25°	1315.6	1302.5	1283.2	1270.5	1264.4	1259.1	1256.3	1253.5
27.5°	1238.6	1226.7	1210.0	1198.5	1192.2	1186.3	1181.6	1176.9
30°	1178.4	1167.8	1153.7	1143.1	1136.0	1129.1	1122.5	1115.9
32.5°	1106.8	1099.5	1090.3	1081.6	1073.4	1065.7	1059.5	1053.3
35°	992.7	987.6	980.1	972.8	965.7	959.2	954.0	948.8
37.5°	857.7	852.5	844.8	836.9	828.8	821.8	818.3	814.7
40°	757.9	753.5	746.9	739.4	730.9	723.4	718.7	714.0
42.5°	652.6	650.5	644.3	636.6	627.4	618.9	612.7	606.5
45°	471.5	480.9	483.3	479.3	468.9	452.4	417.1	381.9
47.5°	277.8	302.5	324.8	318.7	284.2	249.6	214.7	179.8
50°	167.2	196.7	229.2	222.1	175.6	137.5	124.8	112.1
52.5°	99.1	125.1	156.8	154.2	117.5	88.3	82.0	75.7
55°	44.7	56.4	71.0	70.8	55.7	44.0	42.1	40.2
57.5°	20.6	26.0	32.2	32.3	26.2	20.9	18.2	15.4
60°	8.8	13.0	17.7	17.0	10.9	5.8	3.4	1.1
62.5°	2.5	5.7	9.7	9.3	4.7	1.2	0.7	0.2
65°	0.0	0.4	0.8	0.8	0.4	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	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)