

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: P709361

Luminaire Tested: DL2W-WB-M-0U-050D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709361
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-930-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: 2108.6 lumens
Efficiency: N/A
Efficacy: 116.5 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

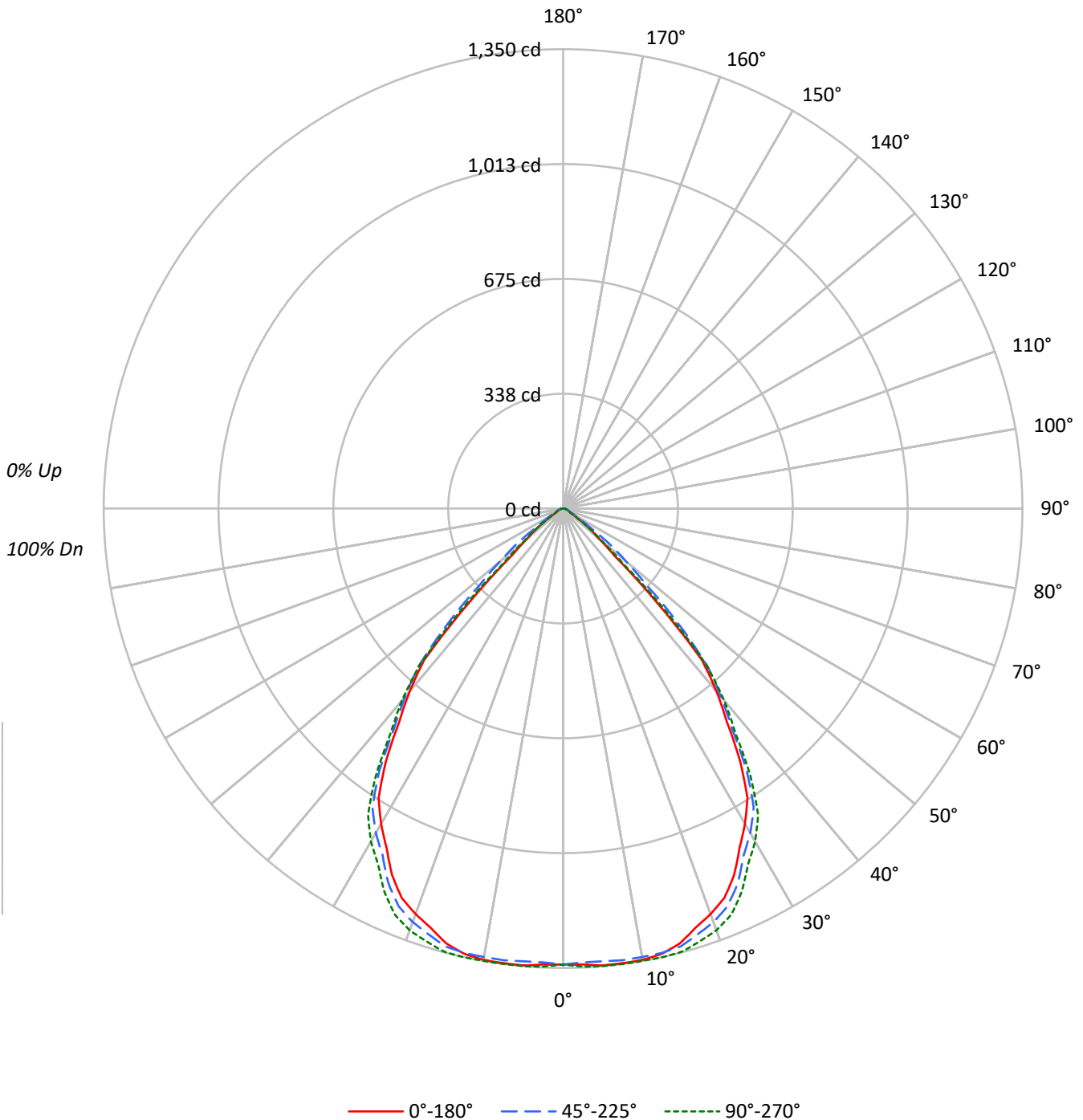
Input Watts (W): 18.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	21632	21632	21632	21632	21632
5°	21840	21644	21870	21644	21840
10°	22076	21940	22123	21940	22076
15°	22121	22272	22539	22272	22121
20°	21780	22215	22656	22215	21780
25°	21178	21643	22137	21643	21178
30°	19939	20517	21052	20517	19939
35°	17895	18557	18920	18557	17895
40°	14779	15220	15548	15220	14779
45°	8873	10988	9839	10988	8873
50°	3504	6059	3818	6059	3504
55°	1869	2749	1841	2749	1869
60°	807	1371	869	1371	807
65°	734	833	772	833	734
70°	727	779	774	779	727
75°	661	774	717	774	661
80°	623	716	716	716	623
85°	537	704	704	704	537

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 11061 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	6.1
10°-20°	376.4	17.9
20°-30°	557.4	26.4
30°-40°	577.4	27.4
40°-50°	347.0	16.5
50°-60°	82.9	3.9
60°-70°	22.6	1.1
70°-80°	12.6	0.6
80°-90°	4.0	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°	1062.1	50.4
0°-40°	1639.5	77.8
0°-60°	2069.4	98.1
0°-90°	2108.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2108.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1340	1340	1340	1340	1340	
5°	1348	1335	1349	1335	1348	129
15°	1323	1332	1348	1332	1323	372
25°	1189	1215	1243	1215	1189	543
35°	908	942	960	942	908	559
45°	389	481	431	481	389	306
55°	66	98	65	98	66	64
65°	19	22	20	22	19	20
75°	11	12	12	12	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°	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8
2.5°	1341.3	1342.7	1344.1	1340.3	1334.8	1334.5	1339.3	1343.4	1345.4	1347.5	1345.4
5°	1347.5	1348.3	1349.2	1343.6	1335.9	1334.9	1340.4	1345.1	1347.3	1349.4	1347.3
7.5°	1347.3	1348.6	1349.9	1345.4	1339.0	1338.1	1342.8	1346.7	1348.0	1349.4	1348.0
10°	1346.5	1347.8	1349.1	1344.6	1338.2	1338.2	1344.6	1349.4	1349.4	1349.4	1349.4
12.5°	1340.4	1342.3	1344.3	1341.3	1336.6	1338.6	1347.4	1353.6	1351.9	1350.2	1351.9
15°	1323.4	1326.4	1329.4	1329.8	1329.4	1335.4	1347.8	1356.1	1352.3	1348.4	1352.3
17.5°	1292.3	1296.4	1300.5	1304.0	1307.3	1317.6	1334.7	1346.0	1340.0	1334.0	1340.0
20°	1267.6	1271.1	1274.5	1280.2	1286.6	1299.2	1318.0	1330.6	1324.6	1318.6	1324.6
22.5°	1238.4	1242.2	1245.9	1251.4	1257.5	1270.6	1290.8	1304.3	1298.0	1291.7	1298.0
25°	1188.8	1192.2	1195.6	1201.6	1208.4	1221.3	1240.1	1252.9	1247.8	1242.6	1247.8
27.5°	1123.4	1127.1	1130.9	1136.7	1143.1	1154.4	1170.6	1182.2	1179.9	1177.6	1179.9
30°	1069.5	1074.6	1079.8	1087.2	1095.3	1105.7	1118.6	1128.3	1128.7	1129.2	1128.7
32.5°	1008.7	1015.6	1022.4	1030.0	1037.7	1047.5	1059.3	1068.0	1067.4	1066.8	1067.4
35°	907.9	915.2	922.5	930.1	937.8	945.2	952.5	958.2	959.0	959.9	959.0
37.5°	791.2	794.0	796.8	803.7	812.0	820.1	827.9	833.5	832.9	832.3	832.9
40°	701.2	701.6	702.0	708.8	717.8	726.4	734.5	740.3	739.0	737.7	739.0
42.5°	605.0	606.8	608.6	616.0	625.3	633.0	639.1	641.3	631.8	622.3	631.8
45°	388.6	420.2	451.8	467.8	478.4	484.0	484.4	478.8	454.8	430.9	454.8
47.5°	203.3	234.5	265.7	297.3	329.0	336.5	319.6	299.5	269.6	239.7	269.6
50°	139.5	150.1	160.8	195.2	237.6	244.8	217.0	191.3	171.6	152.0	171.6
52.5°	101.8	108.3	114.9	141.6	175.1	178.1	150.6	127.6	117.9	108.1	117.9
55°	66.4	68.1	69.8	81.8	97.1	98.2	85.0	74.0	69.7	65.4	69.7
57.5°	39.6	43.2	46.8	52.3	58.3	58.5	52.8	47.5	43.8	40.0	43.8
60°	25.0	27.6	30.1	35.6	42.0	42.9	38.2	33.8	30.4	26.9	30.4
62.5°	22.7	23.6	24.4	28.1	32.9	33.2	29.2	25.9	24.9	23.9	24.9
65°	19.2	19.7	20.1	20.8	21.7	21.9	21.5	21.1	20.6	20.2	20.6
67.5°	16.9	17.4	17.8	18.1	18.5	18.7	18.8	18.7	18.3	17.9	18.3
70°	15.4	15.8	16.2	16.4	16.4	16.6	17.0	17.2	16.8	16.4	16.8
72.5°	13.8	13.9	14.0	14.3	14.6	14.9	14.9	15.0	14.9	14.8	14.9
75°	10.6	11.0	11.4	11.9	12.3	12.5	12.5	12.4	12.0	11.5	12.0
77.5°	8.3	8.7	9.1	9.2	9.2	9.4	9.7	9.9	9.6	9.2	9.6
80°	6.7	7.2	7.6	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
82.5°	5.2	5.6	6.0	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
85°	2.9	3.3	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
87.5°	0.8	0.8	0.8	1.0	1.4	1.5	1.5	1.5	1.5	1.5	1.5
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°	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8
2.5°	1343.4	1339.3	1334.5	1334.8	1340.3	1344.1	1342.7	1341.3
5°	1345.1	1340.4	1334.9	1335.9	1343.6	1349.2	1348.3	1347.5
7.5°	1346.7	1342.8	1338.1	1339.0	1345.4	1349.9	1348.6	1347.3
10°	1349.4	1344.6	1338.2	1338.2	1344.6	1349.1	1347.8	1346.5
12.5°	1353.6	1347.4	1338.6	1336.6	1341.3	1344.3	1342.3	1340.4
15°	1356.1	1347.8	1335.4	1329.4	1329.8	1329.4	1326.4	1323.4
17.5°	1346.0	1334.7	1317.6	1307.3	1304.0	1300.5	1296.4	1292.3
20°	1330.6	1318.0	1299.2	1286.6	1280.2	1274.5	1271.1	1267.6
22.5°	1304.3	1290.8	1270.6	1257.5	1251.4	1245.9	1242.2	1238.4
25°	1252.9	1240.1	1221.3	1208.4	1201.6	1195.6	1192.2	1188.8
27.5°	1182.2	1170.6	1154.4	1143.1	1136.7	1130.9	1127.1	1123.4
30°	1128.3	1118.6	1105.7	1095.3	1087.2	1079.8	1074.6	1069.5
32.5°	1068.0	1059.3	1047.5	1037.7	1030.0	1022.4	1015.6	1008.7
35°	958.2	952.5	945.2	937.8	930.1	922.5	915.2	907.9
37.5°	833.5	827.9	820.1	812.0	803.7	796.8	794.0	791.2
40°	740.3	734.5	726.4	717.8	708.8	702.0	701.6	701.2
42.5°	641.3	639.1	633.0	625.3	616.0	608.6	606.8	605.0
45°	478.8	484.4	484.0	478.4	467.8	451.8	420.2	388.6
47.5°	299.5	319.6	336.5	329.0	297.3	265.7	234.5	203.3
50°	191.3	217.0	244.8	237.6	195.2	160.8	150.1	139.5
52.5°	127.6	150.6	178.1	175.1	141.6	114.9	108.3	101.8
55°	74.0	85.0	98.2	97.1	81.8	69.8	68.1	66.4
57.5°	47.5	52.8	58.5	58.3	52.3	46.8	43.2	39.6
60°	33.8	38.2	42.9	42.0	35.6	30.1	27.6	25.0
62.5°	25.9	29.2	33.2	32.9	28.1	24.4	23.6	22.7
65°	21.1	21.5	21.9	21.7	20.8	20.1	19.7	19.2
67.5°	18.7	18.8	18.7	18.5	18.1	17.8	17.4	16.9
70°	17.2	17.0	16.6	16.4	16.4	16.2	15.8	15.4
72.5°	15.0	14.9	14.9	14.6	14.3	14.0	13.9	13.8
75°	12.4	12.5	12.5	12.3	11.9	11.4	11.0	10.6
77.5°	9.9	9.7	9.4	9.2	9.2	9.1	8.7	8.3
80°	7.7	7.7	7.7	7.7	7.7	7.6	7.2	6.7
82.5°	6.2	6.2	6.2	6.2	6.2	6.0	5.6	5.2
85°	3.8	3.8	3.8	3.8	3.8	3.7	3.3	2.9
87.5°	1.5	1.5	1.5	1.4	1.0	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)