

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: P709363

Luminaire Tested: DL2W-WB-M-0U-050D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709363
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-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: 2319.0 lumens
Efficiency: N/A
Efficacy: 128.1 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

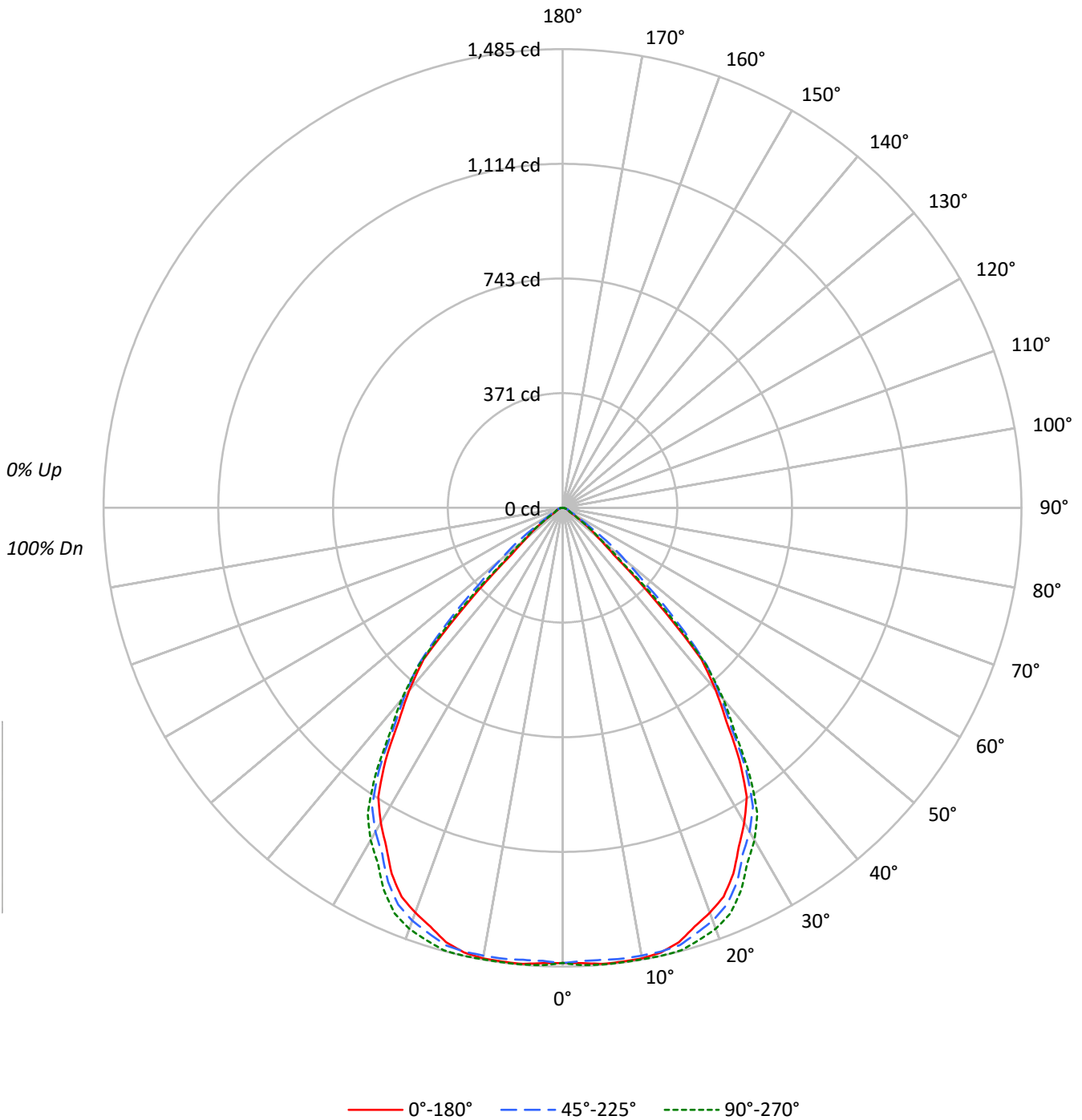
Input Watts (W): 18.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	23791	23791	23791	23791	23791
5°	24018	23803	24052	23803	24018
10°	24279	24128	24330	24128	24279
15°	24329	24495	24789	24495	24329
20°	23953	24430	24917	24430	23953
25°	23291	23802	24346	23802	23291
30°	21929	22565	23152	22565	21929
35°	19681	20408	20808	20408	19681
40°	16252	16737	17100	16737	16252
45°	9757	12085	10821	12085	9757
50°	3853	6664	4197	6664	3853
55°	2055	3023	2024	3023	2055
60°	888	1506	956	1506	888
65°	810	917	848	917	810
70°	798	854	850	854	798
75°	724	852	792	852	724
80°	688	790	790	790	688
85°	593	778	778	778	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 12166 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	6.1
10°-20°	414.0	17.9
20°-30°	613.0	26.4
30°-40°	635.0	27.4
40°-50°	381.7	16.5
50°-60°	91.1	3.9
60°-70°	24.9	1.1
70°-80°	13.9	0.6
80°-90°	4.4	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°	1168.1	50.4
0°-40°	1803.1	77.8
0°-60°	2275.9	98.1
0°-90°	2319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2319.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1474	1474	1474	1474	1474	
5°	1482	1469	1484	1469	1482	141
15°	1456	1465	1483	1465	1456	409
25°	1307	1336	1367	1336	1307	597
35°	998	1035	1056	1035	998	615
45°	427	529	474	529	427	337
55°	73	107	72	107	73	70
65°	21	24	22	24	21	22
75°	12	14	13	14	12	13
85°	3	4	4	4	3	4
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°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1475.2	1476.7	1478.2	1474.0	1468.0	1467.6	1472.9	1477.4	1479.7	1481.9	1479.7
5°	1481.9	1482.9	1483.8	1477.7	1469.2	1468.1	1474.2	1479.3	1481.7	1484.0	1481.7
7.5°	1481.7	1483.1	1484.5	1479.6	1472.6	1471.6	1476.8	1481.0	1482.5	1484.0	1482.5
10°	1480.9	1482.3	1483.7	1478.8	1471.7	1471.7	1478.8	1484.0	1484.0	1484.0	1484.0
12.5°	1474.1	1476.3	1478.4	1475.1	1469.9	1472.2	1481.9	1488.7	1486.8	1484.9	1486.8
15°	1455.5	1458.8	1462.1	1462.5	1462.1	1468.7	1482.3	1491.5	1487.2	1483.0	1487.2
17.5°	1421.2	1425.7	1430.2	1434.1	1437.8	1449.0	1467.8	1480.3	1473.7	1467.1	1473.7
20°	1394.1	1397.9	1401.7	1407.9	1414.9	1428.8	1449.5	1463.4	1456.8	1450.2	1456.8
22.5°	1362.0	1366.1	1370.3	1376.3	1383.0	1397.4	1419.6	1434.5	1427.5	1420.6	1427.5
25°	1307.4	1311.2	1314.9	1321.5	1329.0	1343.1	1363.8	1377.9	1372.3	1366.6	1372.3
27.5°	1235.5	1239.6	1243.7	1250.1	1257.1	1269.6	1287.4	1300.2	1297.7	1295.1	1297.7
30°	1176.2	1181.9	1187.5	1195.6	1204.6	1216.1	1230.2	1240.9	1241.3	1241.8	1241.3
32.5°	1109.4	1116.9	1124.4	1132.7	1141.3	1152.0	1165.0	1174.6	1173.9	1173.3	1173.9
35°	998.5	1006.5	1014.5	1022.9	1031.3	1039.5	1047.5	1053.8	1054.7	1055.7	1054.7
37.5°	870.1	873.2	876.3	883.9	893.1	901.9	910.5	916.7	916.0	915.4	916.0
40°	771.1	771.6	772.1	779.6	789.4	798.8	807.8	814.1	812.7	811.3	812.7
42.5°	665.3	667.3	669.3	677.5	687.7	696.2	702.9	705.2	694.8	684.4	694.8
45°	427.3	462.1	496.9	514.4	526.2	532.3	532.8	526.5	500.2	473.9	500.2
47.5°	223.6	257.9	292.2	327.0	361.9	370.1	351.5	329.4	296.5	263.6	296.5
50°	153.4	165.1	176.9	214.7	261.3	269.3	238.7	210.4	188.8	167.1	188.8
52.5°	111.9	119.2	126.4	155.8	192.5	195.8	165.6	140.3	129.6	118.9	129.6
55°	73.0	74.9	76.7	89.9	106.8	108.0	93.4	81.3	76.6	71.9	76.6
57.5°	43.6	47.5	51.5	57.5	64.1	64.3	58.0	52.3	48.1	44.0	48.1
60°	27.5	30.3	33.1	39.1	46.2	47.1	42.0	37.1	33.4	29.6	33.4
62.5°	25.0	25.9	26.8	31.0	36.1	36.5	32.1	28.5	27.4	26.2	27.4
65°	21.2	21.6	22.1	22.9	23.9	24.1	23.6	23.2	22.7	22.2	22.7
67.5°	18.6	19.1	19.6	20.0	20.3	20.6	20.7	20.6	20.1	19.7	20.1
70°	16.9	17.4	17.9	18.0	18.0	18.2	18.7	18.9	18.5	18.0	18.5
72.5°	15.2	15.3	15.4	15.7	16.1	16.3	16.4	16.5	16.4	16.3	16.4
75°	11.6	12.1	12.6	13.0	13.5	13.8	13.8	13.6	13.2	12.7	13.2
77.5°	9.1	9.6	10.0	10.2	10.2	10.3	10.7	10.9	10.5	10.2	10.5
80°	7.4	7.9	8.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	5.7	6.2	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
85°	3.2	3.6	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	0.8	0.8	0.8	1.1	1.5	1.7	1.7	1.7	1.7	1.7	1.7
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°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1477.4	1472.9	1467.6	1468.0	1474.0	1478.2	1476.7	1475.2
5°	1479.3	1474.2	1468.1	1469.2	1477.7	1483.8	1482.9	1481.9
7.5°	1481.0	1476.8	1471.6	1472.6	1479.6	1484.5	1483.1	1481.7
10°	1484.0	1478.8	1471.7	1471.7	1478.8	1483.7	1482.3	1480.9
12.5°	1488.7	1481.9	1472.2	1469.9	1475.1	1478.4	1476.3	1474.1
15°	1491.5	1482.3	1468.7	1462.1	1462.5	1462.1	1458.8	1455.5
17.5°	1480.3	1467.8	1449.0	1437.8	1434.1	1430.2	1425.7	1421.2
20°	1463.4	1449.5	1428.8	1414.9	1407.9	1401.7	1397.9	1394.1
22.5°	1434.5	1419.6	1397.4	1383.0	1376.3	1370.3	1366.1	1362.0
25°	1377.9	1363.8	1343.1	1329.0	1321.5	1314.9	1311.2	1307.4
27.5°	1300.2	1287.4	1269.6	1257.1	1250.1	1243.7	1239.6	1235.5
30°	1240.9	1230.2	1216.1	1204.6	1195.6	1187.5	1181.9	1176.2
32.5°	1174.6	1165.0	1152.0	1141.3	1132.7	1124.4	1116.9	1109.4
35°	1053.8	1047.5	1039.5	1031.3	1022.9	1014.5	1006.5	998.5
37.5°	916.7	910.5	901.9	893.1	883.9	876.3	873.2	870.1
40°	814.1	807.8	798.8	789.4	779.6	772.1	771.6	771.1
42.5°	705.2	702.9	696.2	687.7	677.5	669.3	667.3	665.3
45°	526.5	532.8	532.3	526.2	514.4	496.9	462.1	427.3
47.5°	329.4	351.5	370.1	361.9	327.0	292.2	257.9	223.6
50°	210.4	238.7	269.3	261.3	214.7	176.9	165.1	153.4
52.5°	140.3	165.6	195.8	192.5	155.8	126.4	119.2	111.9
55°	81.3	93.4	108.0	106.8	89.9	76.7	74.9	73.0
57.5°	52.3	58.0	64.3	64.1	57.5	51.5	47.5	43.6
60°	37.1	42.0	47.1	46.2	39.1	33.1	30.3	27.5
62.5°	28.5	32.1	36.5	36.1	31.0	26.8	25.9	25.0
65°	23.2	23.6	24.1	23.9	22.9	22.1	21.6	21.2
67.5°	20.6	20.7	20.6	20.3	20.0	19.6	19.1	18.6
70°	18.9	18.7	18.2	18.0	18.0	17.9	17.4	16.9
72.5°	16.5	16.4	16.3	16.1	15.7	15.4	15.3	15.2
75°	13.6	13.8	13.8	13.5	13.0	12.6	12.1	11.6
77.5°	10.9	10.7	10.3	10.2	10.2	10.0	9.6	9.1
80°	8.5	8.5	8.5	8.5	8.5	8.3	7.9	7.4
82.5°	6.8	6.8	6.8	6.8	6.8	6.7	6.2	5.7
85°	4.2	4.2	4.2	4.2	4.2	4.1	3.6	3.2
87.5°	1.7	1.7	1.7	1.5	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)