

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: P709278

Luminaire Tested: DL2W-BB-M-OU-050D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709278
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-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: 2007.9 lumens
Efficiency: N/A
Efficacy: 110.9 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

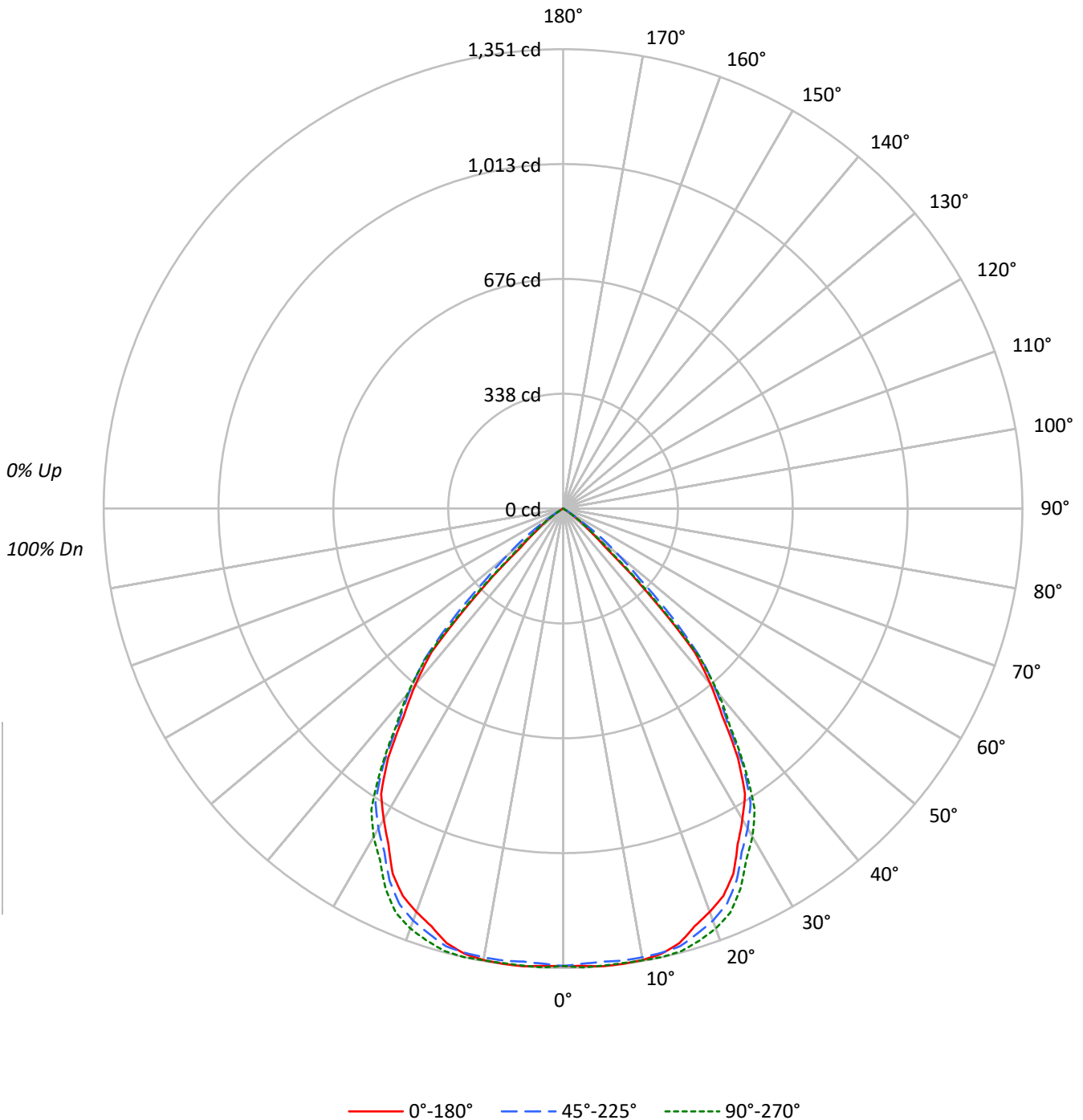
Input Watts (W): 18.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92	
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84			84	
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76			76	
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			70	
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63			63	
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			58	
7	78	67	61	56	76	67	60	56	65	60	55	64	59	55	63	58	55	53			53	
8	73	63	56	51	72	62	55	51	61	55	51	60	54	51	59	54	50	49			49	
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45			45	
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	47	43	42			42	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21716	21716	21716	21716	21716
5°	21896	21677	21864	21677	21896
10°	22100	21969	22117	21969	22100
15°	22114	22272	22516	22272	22114
20°	21684	22154	22577	22154	21684
25°	21111	21504	21984	21504	21111
30°	19669	20241	20769	20241	19669
35°	17680	18196	18410	18196	17680
40°	14227	14808	15028	14808	14227
45°	8243	10389	8859	10389	8243
50°	2663	5359	2989	5359	2663
55°	1070	1886	1013	1886	1070
60°	32	531	97	531	32
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: 10433 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	6.4
10°-20°	376.2	18.7
20°-30°	553.6	27.6
30°-40°	565.6	28.2
40°-50°	325.2	16.2
50°-60°	56.8	2.8
60°-70°	2.0	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°	1058.3	52.7
0°-40°	1623.9	80.9
0°-60°	2005.9	99.9
0°-90°	2007.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2007.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1345	1345	1345	1345	1345	
5°	1351	1337	1349	1337	1351	129
15°	1323	1332	1347	1332	1323	371
25°	1185	1207	1234	1207	1185	540
35°	897	923	934	923	897	549
45°	361	455	388	455	361	282
55°	38	67	36	67	38	39
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°	1345.0	1345.0	1345.0	1345.0	1345.0	1345.0	1345.0	1345.0	1345.0	1345.0	1345.0
2.5°	1345.8	1347.2	1348.6	1345.0	1339.7	1339.3	1343.9	1347.8	1349.2	1350.6	1349.2
5°	1351.0	1351.9	1352.8	1346.7	1338.2	1336.7	1342.0	1346.3	1347.7	1349.0	1347.7
7.5°	1350.4	1352.2	1354.0	1348.9	1341.5	1339.6	1343.1	1346.1	1347.1	1348.2	1347.1
10°	1348.0	1349.8	1351.6	1347.0	1340.3	1339.7	1345.0	1349.0	1349.0	1349.0	1349.0
12.5°	1340.8	1343.3	1345.8	1342.5	1337.2	1339.0	1347.9	1354.2	1352.4	1350.6	1352.4
15°	1323.0	1326.1	1329.2	1329.7	1329.2	1335.7	1349.0	1357.7	1352.3	1347.0	1352.3
17.5°	1287.6	1292.3	1297.0	1301.3	1305.5	1316.7	1334.9	1346.8	1339.6	1332.4	1339.6
20°	1262.0	1266.0	1270.0	1276.0	1282.7	1296.0	1316.0	1329.1	1321.6	1314.0	1321.6
22.5°	1232.4	1236.8	1241.1	1246.4	1252.0	1265.3	1286.4	1300.4	1293.2	1286.0	1293.2
25°	1185.0	1187.7	1190.3	1195.3	1201.1	1213.1	1231.3	1243.8	1238.9	1234.0	1238.9
27.5°	1112.6	1117.0	1121.5	1127.1	1133.0	1143.9	1159.7	1171.0	1168.5	1166.0	1168.5
30°	1055.0	1061.2	1067.4	1074.0	1080.7	1090.7	1104.0	1114.0	1114.0	1114.0	1114.0
32.5°	995.8	1001.7	1007.5	1014.8	1022.5	1030.8	1039.5	1046.4	1047.8	1049.2	1047.8
35°	897.0	901.9	906.8	913.0	919.7	926.6	933.7	938.4	936.2	934.0	936.2
37.5°	770.2	773.6	777.0	783.5	791.2	798.6	805.9	810.9	808.7	806.6	808.7
40°	675.0	679.4	683.9	691.0	699.0	706.1	712.3	716.6	714.8	713.0	714.8
42.5°	573.4	579.3	585.1	593.1	601.8	609.1	615.0	617.0	607.4	597.8	607.4
45°	361.0	394.3	427.7	443.3	453.1	456.9	454.7	445.8	416.9	388.0	416.9
47.5°	170.0	203.0	236.0	268.7	301.3	307.1	286.0	262.6	232.4	202.2	232.4
50°	106.0	118.0	130.0	166.0	210.0	216.7	186.0	158.1	138.6	119.0	138.6
52.5°	71.6	77.6	83.5	111.1	145.8	148.2	118.3	93.7	85.1	76.6	85.1
55°	38.0	39.8	41.6	52.7	66.9	67.1	53.3	42.2	39.1	36.0	39.1
57.5°	14.6	17.2	19.8	24.7	30.5	30.5	24.6	19.4	16.4	13.4	16.4
60°	1.0	3.2	5.4	10.3	16.1	16.8	12.3	8.3	5.7	3.0	5.7
62.5°	0.2	0.6	1.1	4.5	8.8	9.1	5.4	2.4	1.5	0.6	1.5
65°	0.0	0.0	0.0	0.3	0.8	0.8	0.3	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°	1345.0	1345.0	1345.0	1345.0	1345.0	1345.0	1345.0	1345.0
2.5°	1347.8	1343.9	1339.3	1339.7	1345.0	1348.6	1347.2	1345.8
5°	1346.3	1342.0	1336.7	1338.2	1346.7	1352.8	1351.9	1351.0
7.5°	1346.1	1343.1	1339.6	1341.5	1348.9	1354.0	1352.2	1350.4
10°	1349.0	1345.0	1339.7	1340.3	1347.0	1351.6	1349.8	1348.0
12.5°	1354.2	1347.9	1339.0	1337.2	1342.5	1345.8	1343.3	1340.8
15°	1357.7	1349.0	1335.7	1329.2	1329.7	1329.2	1326.1	1323.0
17.5°	1346.8	1334.9	1316.7	1305.5	1301.3	1297.0	1292.3	1287.6
20°	1329.1	1316.0	1296.0	1282.7	1276.0	1270.0	1266.0	1262.0
22.5°	1300.4	1286.4	1265.3	1252.0	1246.4	1241.1	1236.8	1232.4
25°	1243.8	1231.3	1213.1	1201.1	1195.3	1190.3	1187.7	1185.0
27.5°	1171.0	1159.7	1143.9	1133.0	1127.1	1121.5	1117.0	1112.6
30°	1114.0	1104.0	1090.7	1080.7	1074.0	1067.4	1061.2	1055.0
32.5°	1046.4	1039.5	1030.8	1022.5	1014.8	1007.5	1001.7	995.8
35°	938.4	933.7	926.6	919.7	913.0	906.8	901.9	897.0
37.5°	810.9	805.9	798.6	791.2	783.5	777.0	773.6	770.2
40°	716.6	712.3	706.1	699.0	691.0	683.9	679.4	675.0
42.5°	617.0	615.0	609.1	601.8	593.1	585.1	579.3	573.4
45°	445.8	454.7	456.9	453.1	443.3	427.7	394.3	361.0
47.5°	262.6	286.0	307.1	301.3	268.7	236.0	203.0	170.0
50°	158.1	186.0	216.7	210.0	166.0	130.0	118.0	106.0
52.5°	93.7	118.3	148.2	145.8	111.1	83.5	77.6	71.6
55°	42.2	53.3	67.1	66.9	52.7	41.6	39.8	38.0
57.5°	19.4	24.6	30.5	30.5	24.7	19.8	17.2	14.6
60°	8.3	12.3	16.8	16.1	10.3	5.4	3.2	1.0
62.5°	2.4	5.4	9.1	8.8	4.5	1.1	0.6	0.2
65°	0.0	0.3	0.8	0.8	0.3	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)