

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: P709277

Luminaire Tested: DL2W-BB-M-OU-050D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

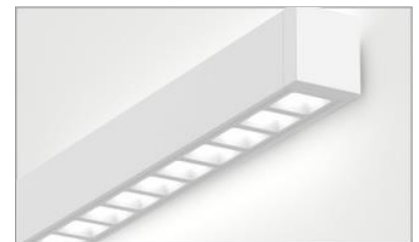
Test Information

Test Method: LM-79-2019
Report Number: P709277
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-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: 1931.2 lumens
Efficiency: N/A
Efficacy: 106.7 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

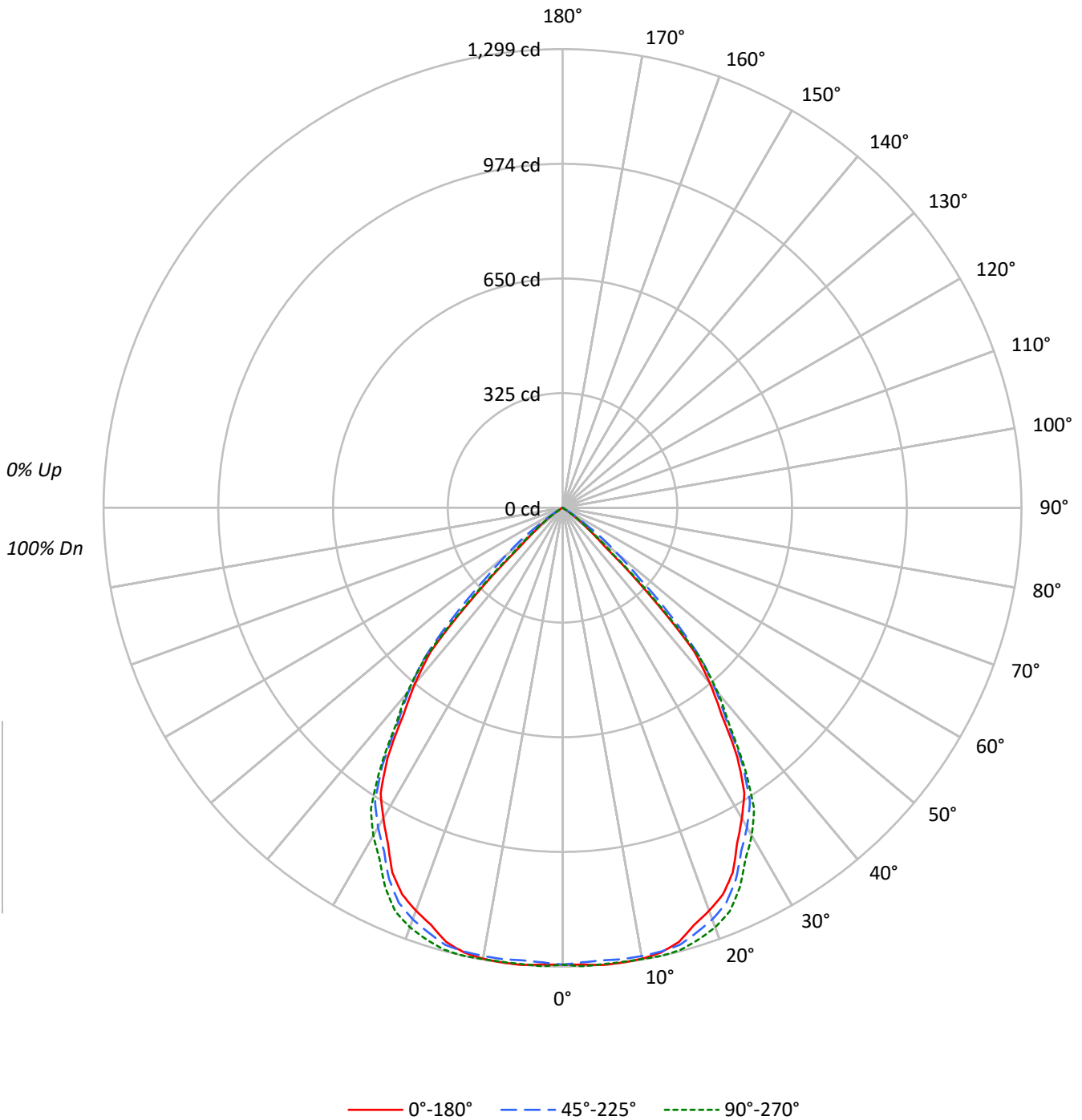
Input Watts (W): 18.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	20886	20886	20886	20886	20886
5°	21060	20849	21029	20849	21060
10°	21256	21130	21272	21130	21256
15°	21270	21421	21655	21421	21270
20°	20856	21307	21715	21307	20856
25°	20304	20683	21145	20683	20304
30°	18918	19468	19975	19468	18918
35°	17004	17500	17706	17500	17004
40°	13683	14242	14455	14242	13683
45°	7928	9992	8522	9992	7928
50°	2562	5154	2876	5154	2562
55°	1027	1813	974	1813	1027
60°	32	510	94	510	32
65°	0	27	0	27	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: 10033 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	6.4
10°-20°	361.8	18.7
20°-30°	532.5	27.6
30°-40°	544.0	28.2
40°-50°	312.7	16.2
50°-60°	54.6	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°	1017.9	52.7
0°-40°	1561.9	80.9
0°-60°	1929.2	99.9
0°-90°	1931.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1931.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1294	1294	1294	1294	1294	
5°	1299	1286	1298	1286	1299	124
15°	1272	1282	1296	1282	1272	357
25°	1140	1161	1187	1161	1140	519
35°	863	888	898	888	863	528
45°	347	438	373	438	347	272
55°	36	64	35	64	36	37
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°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1294.4	1295.8	1297.1	1293.6	1288.5	1288.1	1292.6	1296.3	1297.6	1299.0	1297.6
5°	1299.4	1300.2	1301.1	1295.2	1287.1	1285.6	1290.7	1294.9	1296.2	1297.5	1296.2
7.5°	1298.8	1300.5	1302.2	1297.3	1290.2	1288.4	1291.8	1294.6	1295.7	1296.7	1295.7
10°	1296.5	1298.2	1299.9	1295.5	1289.1	1288.5	1293.6	1297.5	1297.5	1297.5	1297.5
12.5°	1289.6	1292.0	1294.4	1291.2	1286.1	1287.9	1296.4	1302.4	1300.7	1299.0	1300.7
15°	1272.5	1275.5	1278.4	1278.9	1278.4	1284.6	1297.5	1305.8	1300.7	1295.5	1300.7
17.5°	1238.4	1242.9	1247.5	1251.6	1255.6	1266.4	1283.9	1295.3	1288.4	1281.5	1288.4
20°	1213.8	1217.6	1221.5	1227.3	1233.7	1246.5	1265.7	1278.3	1271.1	1263.8	1271.1
22.5°	1185.3	1189.5	1193.7	1198.8	1204.2	1217.0	1237.3	1250.7	1243.8	1236.9	1243.8
25°	1139.7	1142.3	1144.9	1149.7	1155.2	1166.8	1184.3	1196.3	1191.6	1186.9	1191.6
27.5°	1070.1	1074.4	1078.6	1084.0	1089.7	1100.2	1115.4	1126.2	1123.8	1121.5	1123.8
30°	1014.7	1020.7	1026.7	1033.0	1039.4	1049.0	1061.8	1071.4	1071.4	1071.4	1071.4
32.5°	957.8	963.4	969.0	976.0	983.5	991.4	999.8	1006.4	1007.8	1009.1	1007.8
35°	862.7	867.4	872.1	878.1	884.5	891.2	898.0	902.6	900.5	898.3	900.5
37.5°	740.8	744.0	747.3	753.6	761.0	768.1	775.1	779.9	777.8	775.8	777.8
40°	649.2	653.5	657.8	664.6	672.3	679.1	685.1	689.2	687.5	685.8	687.5
42.5°	551.5	557.1	562.8	570.5	578.9	585.9	591.5	593.4	584.2	575.0	584.2
45°	347.2	379.3	411.3	426.4	435.8	439.4	437.3	428.7	401.0	373.2	401.0
47.5°	163.5	195.2	226.9	258.4	289.8	295.3	275.1	252.6	223.5	194.5	223.5
50°	102.0	113.5	125.0	159.7	202.0	208.4	178.9	152.1	133.3	114.5	133.3
52.5°	68.9	74.6	80.3	106.8	140.3	142.6	113.7	90.1	81.9	73.7	81.9
55°	36.5	38.3	40.0	50.7	64.3	64.5	51.3	40.6	37.6	34.6	37.6
57.5°	14.0	16.5	19.0	23.8	29.3	29.3	23.7	18.7	15.8	12.9	15.8
60°	1.0	3.1	5.2	9.9	15.5	16.1	11.9	8.0	5.5	2.9	5.5
62.5°	0.2	0.6	1.0	4.3	8.5	8.8	5.2	2.3	1.4	0.6	1.4
65°	0.0	0.0	0.0	0.3	0.7	0.7	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°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1296.3	1292.6	1288.1	1288.5	1293.6	1297.1	1295.8	1294.4
5°	1294.9	1290.7	1285.6	1287.1	1295.2	1301.1	1300.2	1299.4
7.5°	1294.6	1291.8	1288.4	1290.2	1297.3	1302.2	1300.5	1298.8
10°	1297.5	1293.6	1288.5	1289.1	1295.5	1299.9	1298.2	1296.5
12.5°	1302.4	1296.4	1287.9	1286.1	1291.2	1294.4	1292.0	1289.6
15°	1305.8	1297.5	1284.6	1278.4	1278.9	1278.4	1275.5	1272.5
17.5°	1295.3	1283.9	1266.4	1255.6	1251.6	1247.5	1242.9	1238.4
20°	1278.3	1265.7	1246.5	1233.7	1227.3	1221.5	1217.6	1213.8
22.5°	1250.7	1237.3	1217.0	1204.2	1198.8	1193.7	1189.5	1185.3
25°	1196.3	1184.3	1166.8	1155.2	1149.7	1144.9	1142.3	1139.7
27.5°	1126.2	1115.4	1100.2	1089.7	1084.0	1078.6	1074.4	1070.1
30°	1071.4	1061.8	1049.0	1039.4	1033.0	1026.7	1020.7	1014.7
32.5°	1006.4	999.8	991.4	983.5	976.0	969.0	963.4	957.8
35°	902.6	898.0	891.2	884.5	878.1	872.1	867.4	862.7
37.5°	779.9	775.1	768.1	761.0	753.6	747.3	744.0	740.8
40°	689.2	685.1	679.1	672.3	664.6	657.8	653.5	649.2
42.5°	593.4	591.5	585.9	578.9	570.5	562.8	557.1	551.5
45°	428.7	437.3	439.4	435.8	426.4	411.3	379.3	347.2
47.5°	252.6	275.1	295.3	289.8	258.4	226.9	195.2	163.5
50°	152.1	178.9	208.4	202.0	159.7	125.0	113.5	102.0
52.5°	90.1	113.7	142.6	140.3	106.8	80.3	74.6	68.9
55°	40.6	51.3	64.5	64.3	50.7	40.0	38.3	36.5
57.5°	18.7	23.7	29.3	29.3	23.8	19.0	16.5	14.0
60°	8.0	11.9	16.1	15.5	9.9	5.2	3.1	1.0
62.5°	2.3	5.2	8.8	8.5	4.3	1.0	0.6	0.2
65°	0.0	0.3	0.7	0.7	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)