

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: P709364

Luminaire Tested: DL2W-WB-M-0U-075D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

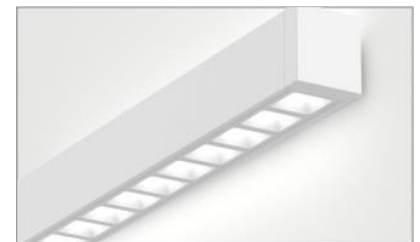
Test Information

Test Method: LM-79-2019
Report Number: P709364
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-0U-075D-930-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3138.3 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

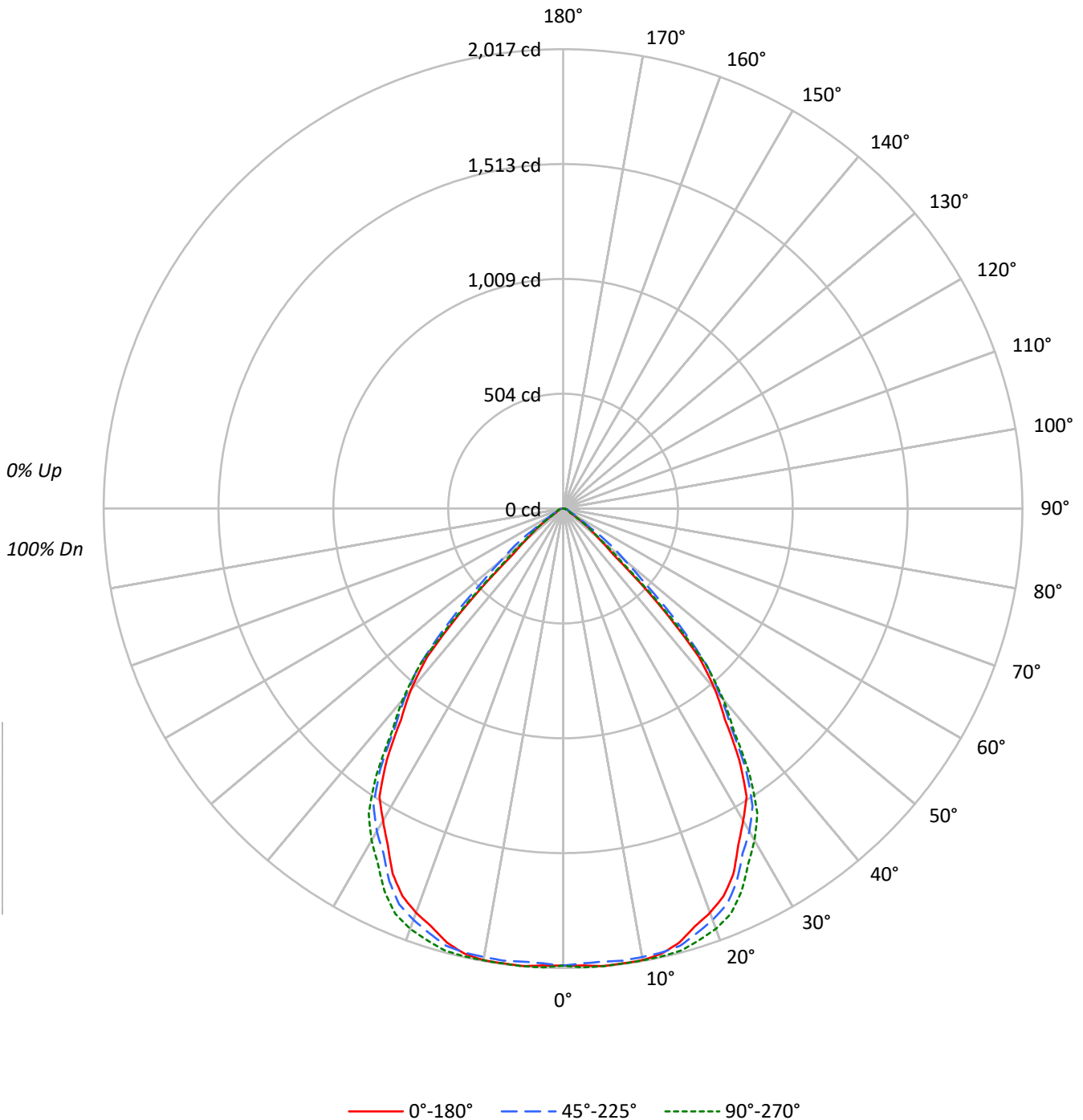
Input Watts (W): 27.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	79	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°	32393	32393	32393	32393	32393
5°	32673	32365	32689	32365	32673
10°	33003	32780	33019	32780	33003
15°	32973	33212	33568	33212	32973
20°	32440	33013	33728	33013	32440
25°	31527	32160	33034	32160	31527
30°	29479	30495	31344	30495	29479
35°	26597	27594	28190	27594	26597
40°	21893	22723	23111	22723	21893
45°	13572	16364	14451	16364	13572
50°	5169	8956	5654	8956	5169
55°	2761	4153	2790	4153	2761
60°	1179	2018	1305	2018	1179
65°	1104	1238	1177	1238	1104
70°	1090	1175	1133	1175	1090
75°	1023	1135	1142	1135	1023
80°	986	1083	1069	1083	986
85°	889	908	1074	908	889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 16449 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	6.1
10°-20°	560.9	17.9
20°-30°	829.3	26.4
30°-40°	858.1	27.3
40°-50°	516.1	16.4
50°-60°	123.4	3.9
60°-70°	33.7	1.1
70°-80°	18.9	0.6
80°-90°	5.9	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°	1582.1	50.4
0°-40°	2440.2	77.8
0°-60°	3079.7	98.1
0°-90°	3138.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3138.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2006	2006	2006	2006	2006	
5°	2016	1997	2017	1997	2016	192
15°	1973	1987	2008	1987	1973	554
25°	1770	1805	1854	1805	1770	807
35°	1349	1400	1430	1400	1349	830
45°	594	717	633	717	594	454
55°	98	148	99	148	98	95
65°	29	32	31	32	29	29
75°	16	18	18	18	16	17
85°	5	5	6	5	5	5
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°	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3
2.5°	2007.9	2009.6	2011.3	2006.1	1998.5	1998.4	2005.5	2011.5	2013.9	2016.3	2013.9
5°	2015.9	2017.2	2018.5	2009.8	1997.9	1995.9	2004.1	2010.9	2013.9	2016.9	2013.9
7.5°	2013.8	2015.8	2017.7	2011.4	2002.4	2001.0	2007.2	2012.2	2013.5	2014.8	2013.5
10°	2013.0	2014.3	2015.6	2008.9	1999.5	1999.3	2008.2	2014.9	2014.4	2014.0	2014.4
12.5°	2001.5	2004.5	2007.5	2002.7	1995.4	1998.2	2011.3	2020.2	2016.7	2013.2	2016.7
15°	1972.6	1976.9	1981.2	1982.3	1982.3	1991.5	2009.8	2021.9	2015.1	2008.2	2015.1
17.5°	1923.4	1928.6	1933.8	1940.1	1946.7	1962.2	1986.8	2003.1	1995.0	1986.9	1995.0
20°	1888.0	1890.1	1892.3	1900.8	1911.5	1931.2	1959.8	1979.3	1971.2	1963.0	1971.2
22.5°	1841.8	1845.3	1848.9	1858.5	1870.2	1891.4	1922.1	1942.9	1934.1	1925.3	1934.1
25°	1769.7	1774.4	1779.1	1786.7	1795.3	1815.1	1846.3	1868.0	1861.2	1854.3	1861.2
27.5°	1665.8	1672.3	1678.8	1687.8	1697.5	1717.0	1746.2	1767.2	1763.5	1759.7	1763.5
30°	1581.2	1591.5	1601.7	1613.9	1626.7	1644.7	1667.8	1684.6	1682.9	1681.2	1682.9
32.5°	1500.4	1508.6	1516.8	1528.0	1540.1	1556.4	1576.7	1591.5	1589.8	1588.1	1589.8
35°	1349.4	1358.0	1366.5	1379.2	1393.3	1406.6	1419.0	1428.5	1429.3	1430.2	1429.3
37.5°	1168.8	1177.4	1186.0	1196.5	1207.7	1218.1	1228.0	1235.0	1233.8	1232.6	1233.8
40°	1038.7	1040.9	1043.0	1055.7	1072.0	1084.2	1092.3	1098.2	1097.3	1096.5	1097.3
42.5°	883.3	893.3	903.3	915.2	927.7	939.5	950.7	955.9	943.1	930.3	943.1
45°	594.4	635.4	676.5	697.9	712.9	720.4	720.4	710.7	671.8	632.9	671.8
47.5°	298.9	348.8	398.6	444.4	488.9	499.1	475.1	446.0	401.7	357.4	401.7
50°	205.8	222.5	239.2	289.5	351.1	362.0	322.2	284.9	255.0	225.1	255.0
52.5°	151.2	160.0	168.8	210.0	262.0	267.1	225.3	190.1	174.9	159.7	174.9
55°	98.1	101.5	104.9	123.4	146.9	148.2	127.3	110.2	104.6	99.1	104.6
57.5°	59.6	65.0	70.4	77.9	86.1	86.1	77.9	70.3	64.6	58.9	64.6
60°	36.5	41.3	46.0	53.5	62.1	62.9	56.1	49.8	45.1	40.4	45.1
62.5°	33.5	35.1	36.7	42.3	49.1	49.6	43.8	38.9	37.0	35.0	37.0
65°	28.9	29.7	30.6	31.4	32.3	32.5	32.1	31.6	31.2	30.8	31.2
67.5°	25.4	26.2	26.9	27.2	27.3	27.5	27.8	28.0	27.6	27.1	27.6
70°	23.1	23.5	23.9	24.4	24.8	25.0	25.0	24.9	24.5	24.0	24.5
72.5°	20.0	20.8	21.5	21.8	21.9	22.1	22.4	22.6	22.2	21.7	22.2
75°	16.4	16.8	17.2	17.6	18.1	18.3	18.3	18.3	18.3	18.3	18.3
77.5°	12.9	13.3	13.7	13.8	13.8	14.1	14.5	14.7	14.3	13.8	14.3
80°	10.6	11.0	11.4	11.5	11.5	11.8	12.2	12.4	12.0	11.5	12.0
82.5°	8.3	8.7	9.1	9.2	9.2	9.3	9.4	9.4	9.3	9.2	9.3
85°	4.8	4.8	4.8	4.8	4.8	5.0	5.5	5.8	5.8	5.8	5.8
87.5°	1.5	1.5	1.5	1.5	1.5	1.7	2.1	2.2	1.9	1.5	1.9
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°	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3
2.5°	2011.5	2005.5	1998.4	1998.5	2006.1	2011.3	2009.6	2007.9
5°	2010.9	2004.1	1995.9	1997.9	2009.8	2018.5	2017.2	2015.9
7.5°	2012.2	2007.2	2001.0	2002.4	2011.4	2017.7	2015.8	2013.8
10°	2014.9	2008.2	1999.3	1999.5	2008.9	2015.6	2014.3	2013.0
12.5°	2020.2	2011.3	1998.2	1995.4	2002.7	2007.5	2004.5	2001.5
15°	2021.9	2009.8	1991.5	1982.3	1982.3	1981.2	1976.9	1972.6
17.5°	2003.1	1986.8	1962.2	1946.7	1940.1	1933.8	1928.6	1923.4
20°	1979.3	1959.8	1931.2	1911.5	1900.8	1892.3	1890.1	1888.0
22.5°	1942.9	1922.1	1891.4	1870.2	1858.5	1848.9	1845.3	1841.8
25°	1868.0	1846.3	1815.1	1795.3	1786.7	1779.1	1774.4	1769.7
27.5°	1767.2	1746.2	1717.0	1697.5	1687.8	1678.8	1672.3	1665.8
30°	1684.6	1667.8	1644.7	1626.7	1613.9	1601.7	1591.5	1581.2
32.5°	1591.5	1576.7	1556.4	1540.1	1528.0	1516.8	1508.6	1500.4
35°	1428.5	1419.0	1406.6	1393.3	1379.2	1366.5	1358.0	1349.4
37.5°	1235.0	1228.0	1218.1	1207.7	1196.5	1186.0	1177.4	1168.8
40°	1098.2	1092.3	1084.2	1072.0	1055.7	1043.0	1040.9	1038.7
42.5°	955.9	950.7	939.5	927.7	915.2	903.3	893.3	883.3
45°	710.7	720.4	720.4	712.9	697.9	676.5	635.4	594.4
47.5°	446.0	475.1	499.1	488.9	444.4	398.6	348.8	298.9
50°	284.9	322.2	362.0	351.1	289.5	239.2	222.5	205.8
52.5°	190.1	225.3	267.1	262.0	210.0	168.8	160.0	151.2
55°	110.2	127.3	148.2	146.9	123.4	104.9	101.5	98.1
57.5°	70.3	77.9	86.1	86.1	77.9	70.4	65.0	59.6
60°	49.8	56.1	62.9	62.1	53.5	46.0	41.3	36.5
62.5°	38.9	43.8	49.6	49.1	42.3	36.7	35.1	33.5
65°	31.6	32.1	32.5	32.3	31.4	30.6	29.7	28.9
67.5°	28.0	27.8	27.5	27.3	27.2	26.9	26.2	25.4
70°	24.9	25.0	25.0	24.8	24.4	23.9	23.5	23.1
72.5°	22.6	22.4	22.1	21.9	21.8	21.5	20.8	20.0
75°	18.3	18.3	18.3	18.1	17.6	17.2	16.8	16.4
77.5°	14.7	14.5	14.1	13.8	13.8	13.7	13.3	12.9
80°	12.4	12.2	11.8	11.5	11.5	11.4	11.0	10.6
82.5°	9.4	9.4	9.3	9.2	9.2	9.1	8.7	8.3
85°	5.8	5.5	5.0	4.8	4.8	4.8	4.8	4.8
87.5°	2.2	2.1	1.7	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

(END OF REPORT)