

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: P709282

Luminaire Tested: DL2W-BB-M-OU-075D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

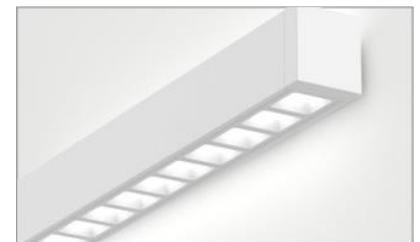
**Test Information**

Test Method: LM-79-2019  
Report Number: P709282  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-BB-M-0U-075D-940-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: 3160.6 lumens  
Efficiency: N/A  
Efficacy: 114.5 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

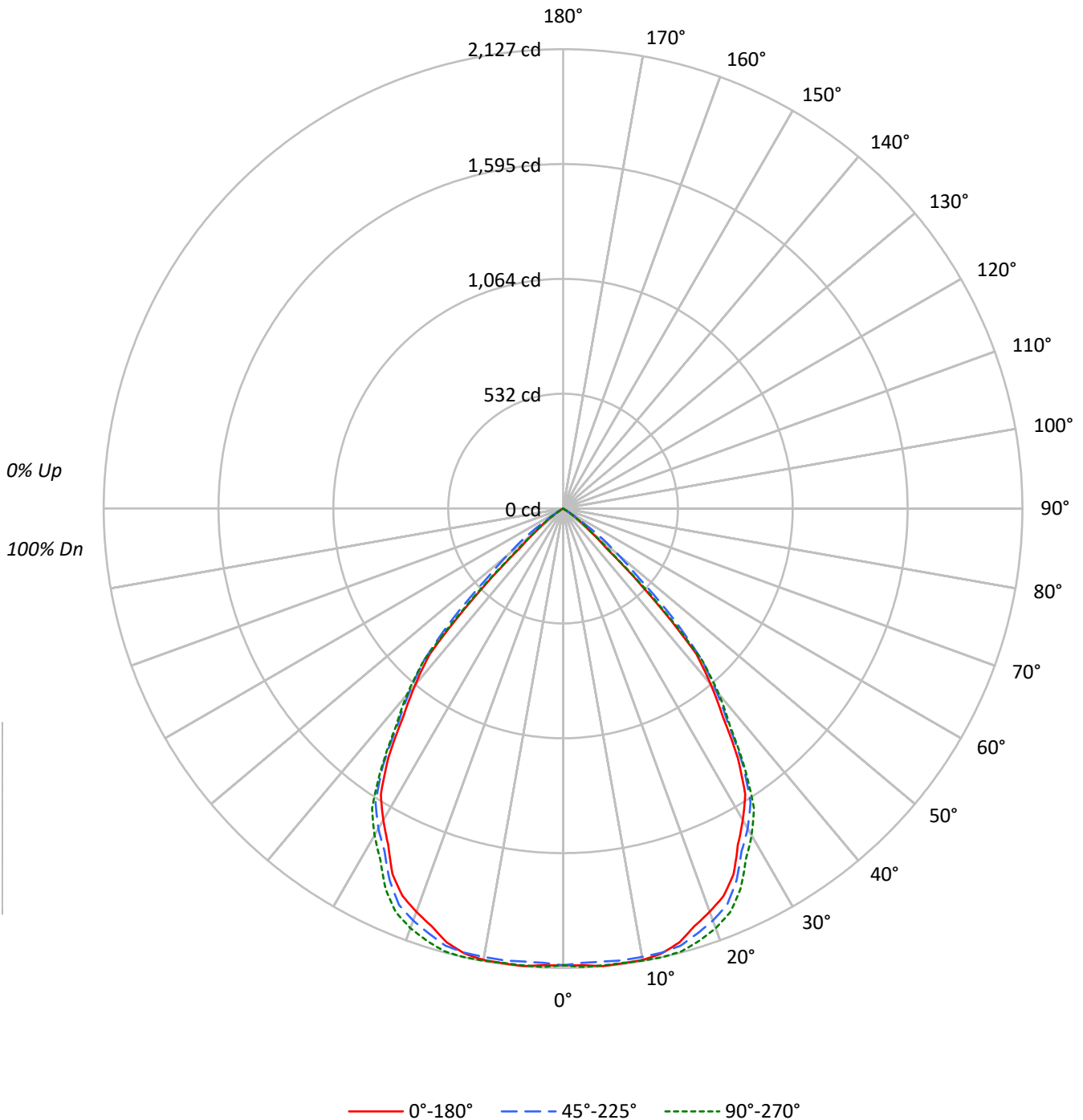
Input Watts (W): 27.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	56	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°	34140	34140	34140	34140	34140
5°	34459	34114	34407	34114	34459
10°	34788	34558	34841	34558	34788
15°	34761	35036	35468	35036	34761
20°	34132	34868	35514	34868	34132
25°	33278	33846	34636	33846	33278
30°	31040	31876	32559	31876	31040
35°	27813	28658	28897	28658	27813
40°	22428	23295	23699	23295	22428
45°	13260	16484	14129	16484	13260
50°	4172	8429	4411	8429	4172
55°	1666	2964	1666	2964	1666
60°	36	806	103	806	36
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: 16543 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.2	6.4
10°-20°	592.2	18.7
20°-30°	871.3	27.6
30°-40°	890.5	28.2
40°-50°	513.0	16.2
50°-60°	88.3	2.8
60°-70°	3.2	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°	1665.7	52.7
0°-40°	2556.2	80.9
0°-60°	3157.4	99.9
0°-90°	3160.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3160.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2114	2114	2114	2114	2114	
5°	2126	2105	2123	2105	2126	203
15°	2080	2096	2122	2096	2080	584
25°	1868	1900	1944	1900	1868	850
35°	1411	1454	1466	1454	1411	866
45°	581	722	619	722	581	450
55°	59	105	59	105	59	61
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°	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5
2.5°	2116.2	2118.0	2119.9	2113.9	2105.3	2104.7	2112.2	2118.5	2121.1	2123.8	2121.1
5°	2126.1	2127.0	2128.0	2118.7	2106.0	2103.7	2111.7	2118.2	2120.6	2122.9	2120.6
7.5°	2123.6	2125.9	2128.3	2121.0	2110.6	2108.2	2113.8	2118.5	2120.1	2121.7	2120.1
10°	2121.9	2124.2	2126.6	2119.1	2108.2	2107.5	2116.9	2124.1	2124.6	2125.1	2124.6
12.5°	2110.0	2114.3	2118.5	2113.1	2104.6	2107.6	2122.3	2132.6	2129.7	2126.7	2129.7
15°	2079.6	2085.7	2091.8	2092.3	2090.9	2101.2	2123.3	2137.9	2129.9	2121.9	2129.9
17.5°	2026.3	2034.9	2043.6	2049.6	2054.8	2072.1	2101.5	2120.7	2109.5	2098.2	2109.5
20°	1986.5	1994.0	2001.5	2010.1	2019.0	2039.7	2072.2	2093.2	2080.0	2066.9	2080.0
22.5°	1941.6	1947.7	1953.7	1963.6	1974.8	1995.8	2026.7	2046.9	2034.9	2022.9	2034.9
25°	1868.0	1871.3	1874.6	1881.8	1890.2	1909.5	1939.6	1960.2	1952.2	1944.2	1952.2
27.5°	1753.8	1758.0	1762.2	1771.2	1781.7	1798.3	1820.8	1837.2	1834.9	1832.7	1834.9
30°	1664.9	1672.9	1680.9	1691.4	1702.7	1716.8	1733.7	1746.4	1746.4	1746.4	1746.4
32.5°	1570.1	1578.1	1586.1	1597.4	1609.8	1622.1	1634.1	1643.4	1644.5	1645.7	1644.5
35°	1411.1	1418.1	1425.2	1436.1	1448.3	1459.6	1469.9	1476.4	1471.2	1466.1	1471.2
37.5°	1215.6	1221.5	1227.4	1238.8	1251.9	1262.4	1270.2	1275.6	1273.6	1271.6	1273.6
40°	1064.1	1073.0	1082.0	1091.3	1100.7	1109.8	1118.8	1125.3	1124.9	1124.4	1124.9
42.5°	912.6	916.3	920.0	932.2	947.2	959.0	967.6	971.6	962.1	952.6	962.1
45°	580.7	629.1	677.6	702.4	719.3	724.5	717.9	702.5	660.6	618.8	660.6
47.5°	273.5	324.8	376.0	425.0	473.2	482.0	451.2	415.2	363.1	311.0	363.1
50°	166.1	183.5	200.9	259.2	331.1	340.0	285.9	237.6	206.6	175.6	206.6
52.5°	111.9	121.8	131.7	174.2	227.7	230.9	183.6	144.7	130.9	117.2	130.9
55°	59.2	62.1	64.9	82.5	105.1	105.5	83.9	66.8	63.0	59.2	63.0
57.5°	22.2	26.8	31.4	38.6	46.6	46.3	37.9	30.3	25.2	20.1	25.2
60°	1.1	5.3	9.5	16.6	24.6	25.3	18.7	12.6	7.9	3.2	7.9
62.5°	0.2	1.4	2.7	7.8	14.3	14.5	8.3	3.3	2.0	0.6	2.0
65°	0.0	0.0	0.0	0.4	0.8	0.8	0.4	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°	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5
2.5°	2118.5	2112.2	2104.7	2105.3	2113.9	2119.9	2118.0	2116.2
5°	2118.2	2111.7	2103.7	2106.0	2118.7	2128.0	2127.0	2126.1
7.5°	2118.5	2113.8	2108.2	2110.6	2121.0	2128.3	2125.9	2123.6
10°	2124.1	2116.9	2107.5	2108.2	2119.1	2126.6	2124.2	2121.9
12.5°	2132.6	2122.3	2107.6	2104.6	2113.1	2118.5	2114.3	2110.0
15°	2137.9	2123.3	2101.2	2090.9	2092.3	2091.8	2085.7	2079.6
17.5°	2120.7	2101.5	2072.1	2054.8	2049.6	2043.6	2034.9	2026.3
20°	2093.2	2072.2	2039.7	2019.0	2010.1	2001.5	1994.0	1986.5
22.5°	2046.9	2026.7	1995.8	1974.8	1963.6	1953.7	1947.7	1941.6
25°	1960.2	1939.6	1909.5	1890.2	1881.8	1874.6	1871.3	1868.0
27.5°	1837.2	1820.8	1798.3	1781.7	1771.2	1762.2	1758.0	1753.8
30°	1746.4	1733.7	1716.8	1702.7	1691.4	1680.9	1672.9	1664.9
32.5°	1643.4	1634.1	1622.1	1609.8	1597.4	1586.1	1578.1	1570.1
35°	1476.4	1469.9	1459.6	1448.3	1436.1	1425.2	1418.1	1411.1
37.5°	1275.6	1270.2	1262.4	1251.9	1238.8	1227.4	1221.5	1215.6
40°	1125.3	1118.8	1109.8	1100.7	1091.3	1082.0	1073.0	1064.1
42.5°	971.6	967.6	959.0	947.2	932.2	920.0	916.3	912.6
45°	702.5	717.9	724.5	719.3	702.4	677.6	629.1	580.7
47.5°	415.2	451.2	482.0	473.2	425.0	376.0	324.8	273.5
50°	237.6	285.9	340.0	331.1	259.2	200.9	183.5	166.1
52.5°	144.7	183.6	230.9	227.7	174.2	131.7	121.8	111.9
55°	66.8	83.9	105.5	105.1	82.5	64.9	62.1	59.2
57.5°	30.3	37.9	46.3	46.6	38.6	31.4	26.8	22.2
60°	12.6	18.7	25.3	24.6	16.6	9.5	5.3	1.1
62.5°	3.3	8.3	14.5	14.3	7.8	2.7	1.4	0.2
65°	0.0	0.4	0.8	0.8	0.4	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)