

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: P709368

Luminaire Tested: DL2W-WB-M-0U-100D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709368
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-0U-100D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4360.3 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.18
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

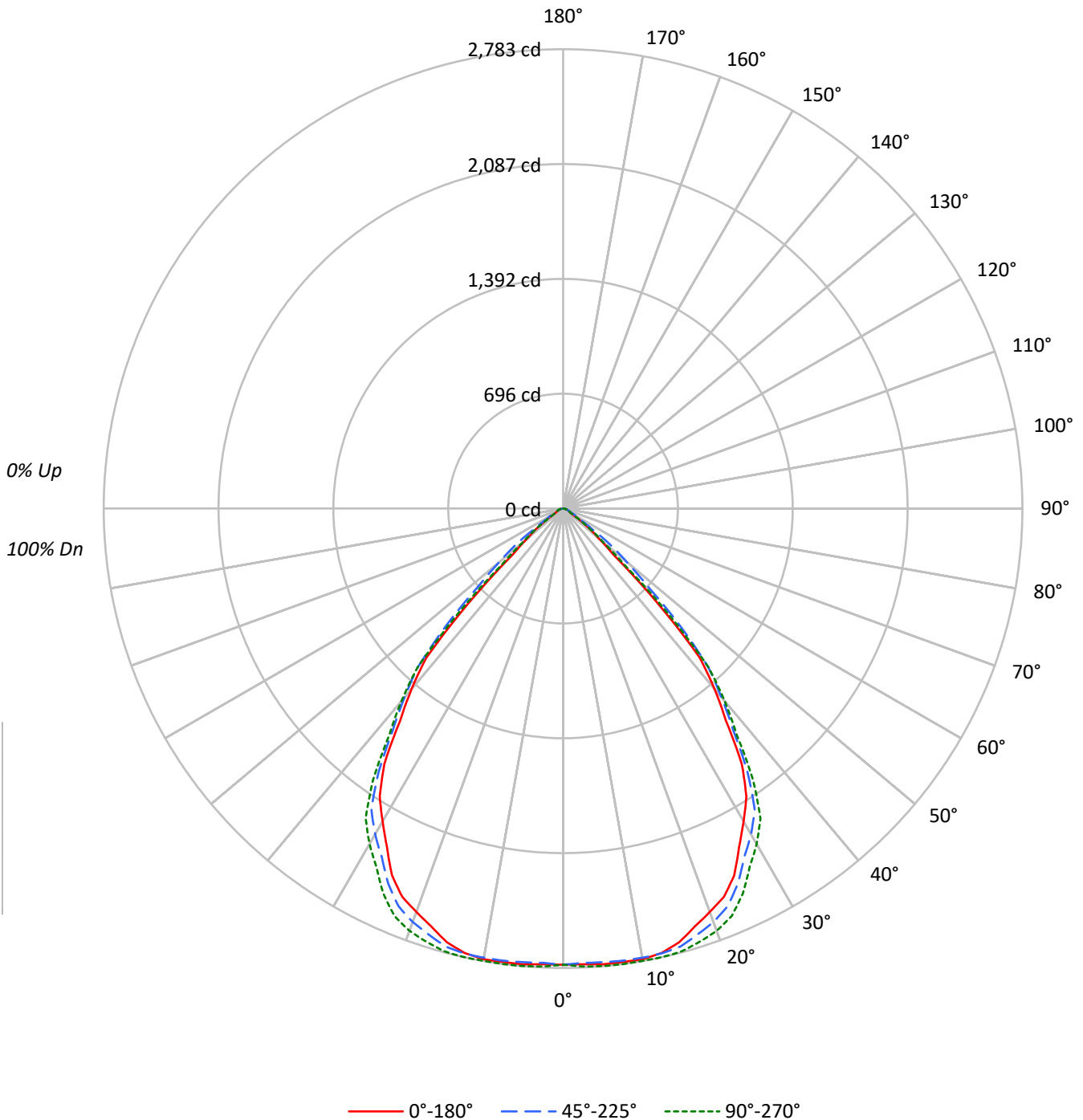
Input Watts (W): 38.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91	
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83			83	
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75			75	
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	77	73	70	68			68	
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	62			62	
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			56	
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			51	
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47			47	
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			43	
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40			40	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	44611	44611	44611	44611	44611
5°	44911	44711	45089	44711	44911
10°	45447	45301	45611	45301	45447
15°	45466	45919	46419	45919	45466
20°	44673	45790	46770	45790	44673
25°	43682	44657	45874	44657	43682
30°	40774	42464	43719	42464	40774
35°	37213	38416	39559	38416	37213
40°	30077	31497	32121	31497	30077
45°	18495	22765	20573	22765	18495
50°	7259	12637	8063	12637	7259
55°	3800	5755	3800	5755	3800
60°	1647	2827	1808	2827	1647
65°	1528	1708	1643	1708	1528
70°	1463	1610	1558	1610	1463
75°	1435	1560	1560	1560	1435
80°	1395	1497	1488	1497	1395
85°	1297	1315	1297	1315	1297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 22994 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	6.1
10°-20°	775.7	17.8
20°-30°	1151.2	26.4
30°-40°	1195.7	27.4
40°-50°	719.5	16.5
50°-60°	172.3	4.0
60°-70°	46.8	1.1
70°-80°	26.2	0.6
80°-90°	8.2	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°	2191.5	50.3
0°-40°	3387.2	77.7
0°-60°	4279.1	98.1
0°-90°	4360.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4360.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2763	2763	2763	2763	2763	
5°	2771	2759	2782	2759	2771	264
15°	2720	2747	2777	2747	2720	764
25°	2452	2507	2575	2507	2452	1117
35°	1888	1949	2007	1949	1888	1150
45°	810	997	901	997	810	627
55°	135	204	135	204	135	132
65°	40	45	43	45	40	40
75°	23	25	25	25	23	24
85°	7	7	7	7	7	8
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°	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0
2.5°	2763.0	2767.3	2771.5	2765.1	2755.2	2754.6	2763.5	2770.9	2773.8	2776.6	2773.8
5°	2771.0	2775.9	2780.8	2772.3	2759.4	2757.9	2767.7	2775.8	2778.9	2782.0	2778.9
7.5°	2770.4	2775.8	2781.2	2774.1	2762.7	2762.8	2774.5	2783.2	2783.0	2782.8	2783.0
10°	2772.0	2776.0	2780.0	2773.0	2762.3	2763.9	2777.7	2787.3	2784.7	2782.0	2784.7
12.5°	2757.6	2763.7	2769.9	2765.5	2757.7	2762.5	2779.8	2791.7	2787.2	2782.8	2787.2
15°	2720.0	2728.9	2737.8	2740.3	2740.8	2753.4	2778.3	2794.8	2785.9	2777.0	2785.9
17.5°	2654.4	2664.9	2675.4	2685.5	2695.6	2717.4	2751.1	2773.6	2762.6	2751.6	2762.6
20°	2600.0	2611.6	2623.1	2637.0	2651.7	2678.3	2717.0	2743.3	2732.7	2722.0	2732.7
22.5°	2545.6	2554.0	2562.3	2576.2	2591.9	2621.1	2663.7	2692.8	2681.8	2670.8	2681.8
25°	2452.0	2458.7	2465.3	2478.0	2492.7	2520.7	2562.0	2591.0	2583.0	2575.0	2583.0
27.5°	2310.2	2321.6	2333.0	2348.5	2365.5	2392.0	2427.9	2454.2	2451.6	2449.0	2451.6
30°	2187.0	2206.6	2226.1	2245.3	2264.4	2290.9	2324.7	2349.4	2347.2	2345.0	2347.2
32.5°	2067.0	2087.3	2107.5	2128.3	2149.2	2172.4	2198.0	2218.2	2222.0	2225.8	2222.0
35°	1888.0	1897.8	1907.6	1923.0	1940.3	1957.7	1975.0	1990.1	1998.6	2007.0	1998.6
37.5°	1623.0	1634.7	1646.5	1665.0	1685.8	1702.6	1715.3	1725.3	1727.5	1729.6	1727.5
40°	1427.0	1441.2	1455.4	1470.3	1485.4	1503.4	1524.3	1538.2	1531.1	1524.0	1531.1
42.5°	1226.2	1238.3	1250.4	1269.5	1291.0	1311.0	1329.4	1338.8	1321.4	1304.0	1321.4
45°	810.0	874.9	939.8	971.0	991.0	1003.0	1007.0	997.9	949.4	901.0	949.4
47.5°	415.4	481.8	548.2	615.1	682.2	698.6	664.1	623.0	562.0	501.0	562.0
50°	289.0	311.7	334.3	406.3	494.8	511.4	456.3	404.6	362.8	321.0	362.8
52.5°	213.0	225.4	237.7	293.3	363.2	371.2	317.1	270.9	247.9	225.0	247.9
55°	135.0	140.3	145.7	171.3	203.8	205.1	175.3	151.0	143.0	135.0	143.0
57.5°	79.8	88.2	96.7	107.5	119.2	119.2	107.7	97.1	89.3	81.6	89.3
60°	51.0	57.7	64.3	75.0	87.0	88.1	78.3	69.3	62.7	56.0	62.7
62.5°	46.2	48.6	51.0	58.5	67.6	68.2	60.2	53.6	51.2	48.8	51.2
65°	40.0	41.3	42.7	43.7	44.6	44.8	44.3	43.9	43.4	43.0	43.4
67.5°	35.0	36.0	37.0	37.5	37.8	38.2	38.7	38.8	37.9	37.0	37.9
70°	31.0	32.3	33.7	34.0	34.0	34.2	34.7	34.8	33.9	33.0	33.9
72.5°	27.8	28.8	29.8	30.3	30.6	31.0	31.5	31.6	30.7	29.8	30.7
75°	23.0	23.4	23.9	24.3	24.8	25.2	25.7	25.9	25.4	25.0	25.4
77.5°	18.2	18.6	19.1	19.5	19.8	20.0	20.1	20.1	19.6	19.2	19.6
80°	15.0	15.4	15.9	16.0	16.0	16.2	16.7	16.9	16.4	16.0	16.4
82.5°	11.8	11.9	12.0	12.3	12.6	12.8	12.9	13.0	12.9	12.8	12.9
85°	7.0	7.0	7.0	7.0	7.0	7.2	7.7	7.9	7.4	7.0	7.4
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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°	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0
2.5°	2770.9	2763.5	2754.6	2755.2	2765.1	2771.5	2767.3	2763.0
5°	2775.8	2767.7	2757.9	2759.4	2772.3	2780.8	2775.9	2771.0
7.5°	2783.2	2774.5	2762.8	2762.7	2774.1	2781.2	2775.8	2770.4
10°	2787.3	2777.7	2763.9	2762.3	2773.0	2780.0	2776.0	2772.0
12.5°	2791.7	2779.8	2762.5	2757.7	2765.5	2769.9	2763.7	2757.6
15°	2794.8	2778.3	2753.4	2740.8	2740.3	2737.8	2728.9	2720.0
17.5°	2773.6	2751.1	2717.4	2695.6	2685.5	2675.4	2664.9	2654.4
20°	2743.3	2717.0	2678.3	2651.7	2637.0	2623.1	2611.6	2600.0
22.5°	2692.8	2663.7	2621.1	2591.9	2576.2	2562.3	2554.0	2545.6
25°	2591.0	2562.0	2520.7	2492.7	2478.0	2465.3	2458.7	2452.0
27.5°	2454.2	2427.9	2392.0	2365.5	2348.5	2333.0	2321.6	2310.2
30°	2349.4	2324.7	2290.9	2264.4	2245.3	2226.1	2206.6	2187.0
32.5°	2218.2	2198.0	2172.4	2149.2	2128.3	2107.5	2087.3	2067.0
35°	1990.1	1975.0	1957.7	1940.3	1923.0	1907.6	1897.8	1888.0
37.5°	1725.3	1715.3	1702.6	1685.8	1665.0	1646.5	1634.7	1623.0
40°	1538.2	1524.3	1503.4	1485.4	1470.3	1455.4	1441.2	1427.0
42.5°	1338.8	1329.4	1311.0	1291.0	1269.5	1250.4	1238.3	1226.2
45°	997.9	1007.0	1003.0	991.0	971.0	939.8	874.9	810.0
47.5°	623.0	664.1	698.6	682.2	615.1	548.2	481.8	415.4
50°	404.6	456.3	511.4	494.8	406.3	334.3	311.7	289.0
52.5°	270.9	317.1	371.2	363.2	293.3	237.7	225.4	213.0
55°	151.0	175.3	205.1	203.8	171.3	145.7	140.3	135.0
57.5°	97.1	107.7	119.2	119.2	107.5	96.7	88.2	79.8
60°	69.3	78.3	88.1	87.0	75.0	64.3	57.7	51.0
62.5°	53.6	60.2	68.2	67.6	58.5	51.0	48.6	46.2
65°	43.9	44.3	44.8	44.6	43.7	42.7	41.3	40.0
67.5°	38.8	38.7	38.2	37.8	37.5	37.0	36.0	35.0
70°	34.8	34.7	34.2	34.0	34.0	33.7	32.3	31.0
72.5°	31.6	31.5	31.0	30.6	30.3	29.8	28.8	27.8
75°	25.9	25.7	25.2	24.8	24.3	23.9	23.4	23.0
77.5°	20.1	20.1	20.0	19.8	19.5	19.1	18.6	18.2
80°	16.9	16.7	16.2	16.0	16.0	15.9	15.4	15.0
82.5°	13.0	12.9	12.8	12.6	12.3	12.0	11.9	11.8
85°	7.9	7.7	7.2	7.0	7.0	7.0	7.0	7.0
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)