

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P520564

Luminaire Tested: **4WSLA-200-L850-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 4WSLA-200-L850-UNV-U
Description: 4 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

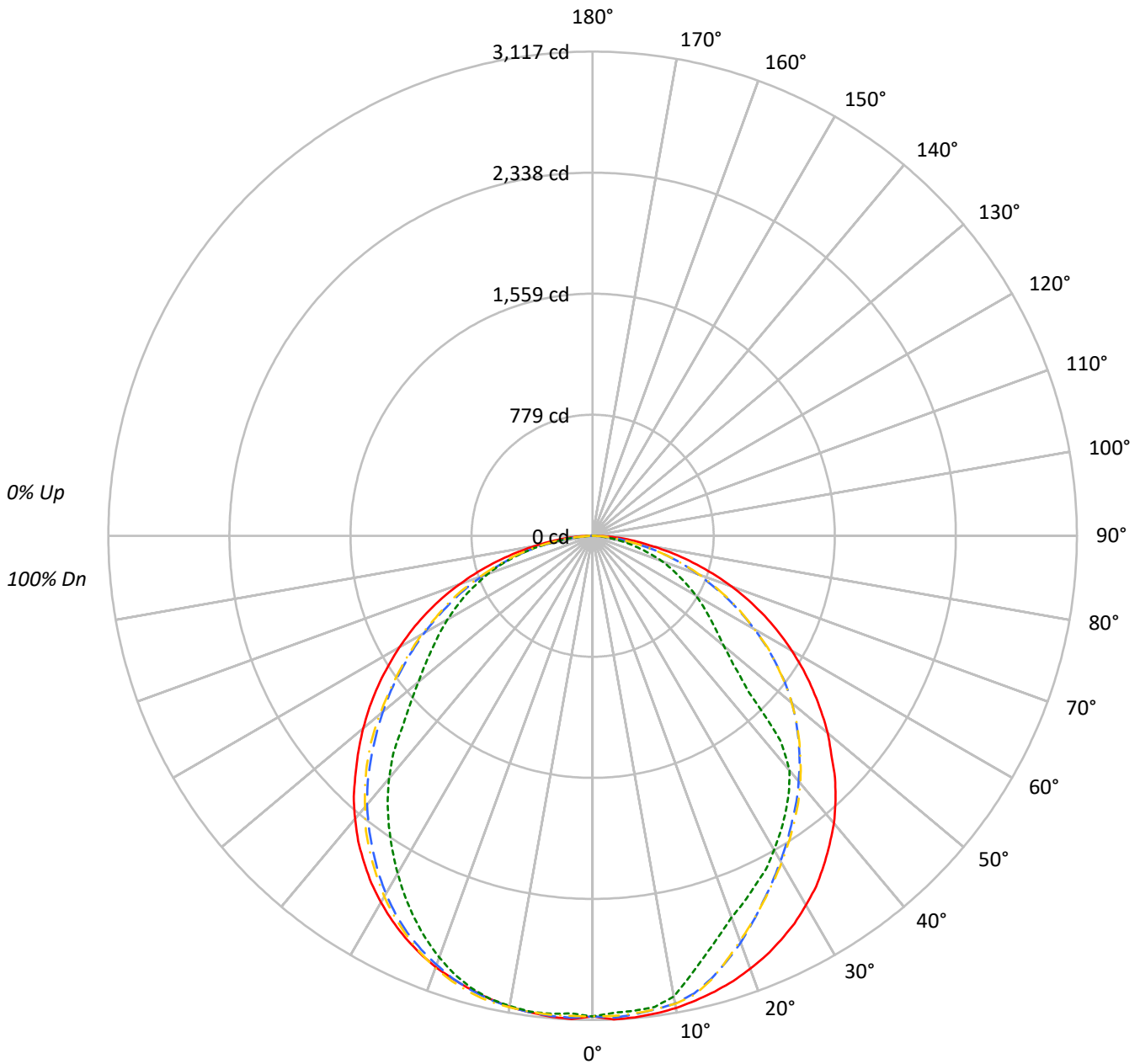
Lumens per Lamp: N/A
Luminaire Lumens: 8300.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.3
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70																			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60																			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16652	16652	16652	16652
5°	16814	16581	16787	16688
10°	16872	16455	16827	16799
15°	16924	15584	16851	16795
20°	16988	14973	16921	16541
25°	17042	14726	16953	16126
30°	17061	14513	16938	15597
35°	17034	14232	16860	15017
40°	16979	13854	16711	14320
45°	16790	10764	16411	13139
50°	16538	9214	16135	12258
55°	16244	8629	15824	11790
60°	15937	8237	15455	11595
65°	15558	7800	15030	11456
70°	14940	7418	14313	11284
75°	13909	6523	13254	10734
80°	12348	5452	11576	9106
85°	11683	3896	10251	5230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.0	3.5
10°-20°	838.5	10.1
20°-30°	1252.9	15.1
30°-40°	1491.4	18.0
40°-50°	1490.8	18.0
50°-60°	1282.8	15.5
60°-70°	965.5	11.6
70°-80°	550.2	6.6
80°-90°	133.9	1.6
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°	2385.4	28.7
0°-40°	3876.8	46.7
0°-60°	6650.4	80.1
0°-90°	8300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8300.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3094	3094	3094	3094	3094	
5°	3112	3069	3107	3089	3112	296
15°	3038	2797	3024	3014	3038	858
25°	2870	2480	2855	2716	2870	1323
35°	2593	2166	2566	2286	2593	1622
45°	2206	1414	2156	1726	2206	1699
55°	1731	920	1686	1256	1731	1548
65°	1222	612	1180	900	1222	1206
75°	669	314	637	516	669	708
85°	189	63	166	85	189	206
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3094.0	3094.0	3094.0	3094.0	3094.0	3094.0	3094.0	3094.0	3094.0	3094.0	3094.0
2.5°	3117.2	3089.0	3105.6	3100.6	3074.0	3084.0	3094.0	3084.0	3113.9	3087.3	3105.6
5°	3112.2	3082.3	3092.3	3082.3	3069.1	3072.4	3087.3	3077.4	3107.2	3079.0	3102.3
7.5°	3102.3	3065.7	3075.7	3070.7	3059.1	3060.8	3075.7	3067.4	3094.0	3067.4	3094.0
10°	3087.3	3049.1	3057.4	3035.9	3011.0	3029.2	3059.1	3050.8	3079.0	3049.1	3079.0
12.5°	3064.1	3025.9	3017.6	2946.2	2901.4	2936.3	3027.6	3027.6	3054.1	3025.9	3057.4
15°	3037.5	2996.0	2951.2	2843.3	2796.9	2831.7	2957.9	3001.0	3024.3	2996.0	3027.6
17.5°	3006.0	2957.9	2871.5	2745.4	2702.2	2737.1	2866.6	2961.2	2991.1	2961.2	2989.4
20°	2966.2	2909.7	2786.9	2642.5	2614.3	2645.8	2775.3	2913.0	2954.5	2918.0	2937.9
22.5°	2923.0	2854.9	2692.3	2562.8	2549.5	2569.5	2687.3	2853.3	2908.1	2869.9	2883.2
25°	2869.9	2790.2	2597.7	2489.8	2479.8	2491.4	2601.0	2783.6	2854.9	2815.1	2820.1
27.5°	2813.5	2727.1	2508.0	2428.4	2418.4	2423.4	2514.7	2705.6	2793.5	2753.7	2745.4
30°	2745.4	2652.4	2418.4	2345.4	2335.4	2353.7	2431.7	2625.9	2725.5	2685.6	2660.7
32.5°	2677.3	2571.1	2330.4	2274.0	2254.1	2270.7	2345.4	2542.9	2650.8	2609.3	2567.8
35°	2592.7	2484.8	2239.1	2182.7	2166.1	2184.4	2259.1	2456.6	2566.1	2524.6	2468.2
37.5°	2504.7	2393.5	2156.1	2104.7	2074.8	2096.4	2171.1	2367.0	2478.2	2435.0	2365.3
40°	2416.7	2297.2	2063.2	2010.1	1971.9	2003.4	2079.8	2272.3	2378.6	2338.7	2259.1
42.5°	2313.8	2201.0	1971.9	1897.2	1789.3	1890.6	1981.9	2177.7	2275.7	2237.5	2141.2
45°	2205.9	2098.1	1875.6	1694.7	1414.2	1711.3	1882.3	2078.1	2156.1	2119.6	2015.1
47.5°	2083.1	1991.8	1777.7	1502.2	1230.0	1518.8	1781.0	1983.5	2043.3	2003.4	1887.3
50°	1975.2	1885.6	1674.8	1339.5	1100.5	1357.8	1673.1	1877.3	1927.1	1890.6	1761.1
52.5°	1852.4	1774.4	1563.6	1195.1	1004.2	1213.4	1560.3	1767.7	1807.6	1764.4	1635.0
55°	1731.2	1661.5	1445.7	1067.3	919.6	1083.9	1442.4	1654.9	1686.4	1636.6	1502.2
57.5°	1608.4	1545.3	1324.6	952.8	841.5	971.0	1332.9	1538.7	1560.3	1497.2	1374.4
60°	1480.6	1427.5	1201.7	851.5	765.2	866.4	1198.4	1422.5	1435.8	1367.7	1249.9
62.5°	1352.8	1304.6	1078.9	758.6	687.2	768.5	1087.2	1299.7	1308.0	1243.2	1122.1
65°	1221.7	1176.8	959.4	660.6	612.5	677.2	967.7	1171.9	1180.2	1107.1	997.6
67.5°	1085.5	1049.0	831.6	585.9	541.1	590.9	848.2	1042.4	1047.4	976.0	876.4
70°	949.4	917.9	718.7	504.6	471.4	506.3	730.3	899.6	909.6	833.2	753.6
72.5°	810.0	785.1	609.2	419.9	390.1	419.9	615.8	768.5	775.2	712.1	634.1
75°	668.9	650.7	498.0	337.0	313.7	335.3	501.3	637.4	637.4	577.6	516.2
77.5°	532.8	519.5	381.8	258.9	242.3	255.6	383.4	504.6	501.3	454.8	406.7
80°	398.4	388.4	273.9	187.6	175.9	182.6	273.9	373.5	373.5	340.3	282.2
82.5°	285.5	273.9	180.9	122.8	116.2	119.5	177.6	260.6	265.6	240.7	190.9
85°	189.2	162.7	97.9	68.1	63.1	64.7	93.0	151.0	166.0	139.4	99.6
87.5°	83.0	54.8	24.9	10.0	5.0	6.6	19.9	48.1	63.1	41.5	13.3
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):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3094.0	3094.0	3094.0	3094.0	3094.0	3094.0
2.5°	3103.9	3077.4	3087.3	3094.0	3087.3	3117.2
5°	3100.6	3089.0	3087.3	3095.6	3082.3	3112.2
7.5°	3095.6	3089.0	3087.3	3090.6	3074.0	3102.3
10°	3084.0	3074.0	3077.4	3082.3	3060.8	3087.3
12.5°	3062.4	3052.5	3054.1	3070.7	3040.9	3064.1
15°	3025.9	3014.3	3025.9	3044.2	3017.6	3037.5
17.5°	2977.8	2959.5	2979.4	3007.7	2987.7	3006.0
20°	2916.4	2888.1	2909.7	2961.2	2942.9	2966.2
22.5°	2841.7	2806.8	2828.4	2903.1	2898.1	2923.0
25°	2757.0	2715.5	2745.4	2836.7	2846.6	2869.9
27.5°	2662.4	2615.9	2655.8	2763.7	2786.9	2813.5
30°	2559.5	2509.7	2556.2	2682.3	2717.2	2745.4
32.5°	2453.3	2398.5	2451.6	2591.0	2640.8	2677.3
35°	2342.1	2285.6	2345.4	2496.4	2556.2	2592.7
37.5°	2222.5	2167.8	2232.5	2396.8	2468.2	2504.7
40°	2099.7	2038.3	2111.3	2279.0	2373.6	2416.7
42.5°	1973.6	1897.2	1986.8	2167.8	2270.7	2313.8
45°	1832.5	1726.2	1847.4	2049.9	2157.8	2205.9
47.5°	1691.4	1585.2	1708.0	1923.8	2040.0	2083.1
50°	1555.3	1464.0	1561.9	1786.0	1920.4	1975.2
52.5°	1430.8	1356.1	1439.1	1651.6	1797.6	1852.4
55°	1314.6	1256.5	1324.6	1518.8	1668.2	1731.2
57.5°	1205.1	1168.5	1215.0	1392.6	1548.6	1608.4
60°	1102.1	1077.2	1110.4	1268.1	1407.6	1480.6
62.5°	1000.9	987.6	1012.5	1137.0	1276.4	1352.8
65°	903.0	899.6	912.9	1022.5	1138.7	1221.7
67.5°	805.0	803.4	811.7	901.3	1004.2	1085.5
70°	707.1	717.1	712.1	770.2	869.8	949.4
72.5°	607.5	622.4	614.1	650.7	746.9	810.0
75°	496.3	516.2	499.6	541.1	600.9	668.9
77.5°	381.8	403.3	383.4	419.9	484.7	532.8
80°	273.9	293.8	277.2	305.4	361.8	398.4
82.5°	172.6	187.6	174.3	202.5	258.9	285.5
85°	76.4	84.7	88.0	109.6	159.3	189.2
87.5°	3.3	1.7	3.3	21.6	56.4	83.0
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)