

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: P520555

Luminaire Tested: **4WSLA-200-L830-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520555  
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-L830-UNV-U  
Description: 4 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

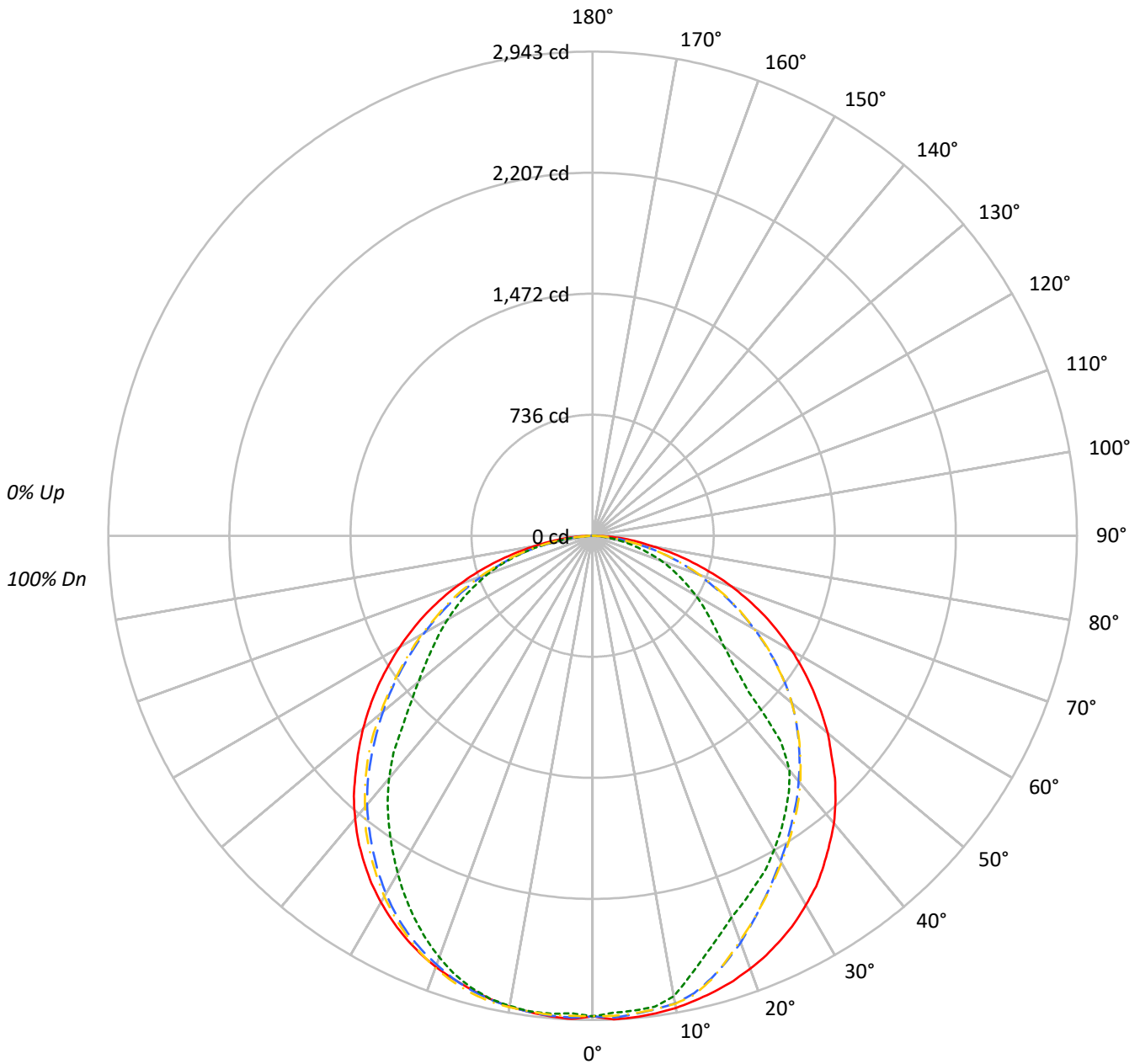
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7835.0 lumens  
Efficiency: N/A  
Efficacy: 102.7 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<sub>in</sub>): 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

TEST NUMBER: P520555

CATALOG NUMBER: 4WSLA-200-L830-UNV-U

### Luminous Intensity Polar Plot





TEST NUMBER: P520555

CATALOG NUMBER: 4WSLA-200-L830-UNV-U

**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°	15719	15719	15719	15719
5°	15872	15652	15847	15753
10°	15927	15533	15884	15858
15°	15977	14711	15906	15854
20°	16037	14134	15974	15615
25°	16088	13901	16004	15222
30°	16106	13701	15989	14723
35°	16080	13435	15916	14176
40°	16028	13078	15775	13518
45°	15850	10161	15492	12403
50°	15612	8698	15231	11571
55°	15334	8145	14937	11129
60°	15044	7775	14588	10946
65°	14686	7363	14187	10814
70°	14102	7002	13511	10652
75°	13130	6157	12512	10133
80°	11654	5148	10925	8594
85°	11029	3674	9676	4934



TEST NUMBER: P520555

CATALOG NUMBER: 4WSLA-200-L830-UNV-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.5	3.5
10°-20°	791.5	10.1
20°-30°	1182.7	15.1
30°-40°	1407.9	18.0
40°-50°	1407.3	18.0
50°-60°	1210.9	15.5
60°-70°	911.4	11.6
70°-80°	519.4	6.6
80°-90°	126.4	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°	2251.8	28.7
0°-40°	3659.6	46.7
0°-60°	6277.8	80.1
0°-90°	7835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7835.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2921	2921	2921	2921	2921	
5°	2938	2897	2933	2916	2938	280
15°	2867	2640	2855	2845	2867	810
25°	2709	2341	2695	2563	2709	1249
35°	2447	2045	2422	2158	2447	1531
45°	2082	1335	2035	1630	2082	1604
55°	1634	868	1592	1186	1634	1461
65°	1153	578	1114	849	1153	1139
75°	631	296	602	487	631	668
85°	179	60	157	80	179	194
90°	0	0	0	0	0	



TEST NUMBER: P520555

CATALOG NUMBER: 4WSLA-200-L830-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6
2.5°	2942.6	2915.9	2931.6	2926.9	2901.8	2911.2	2920.6	2911.2	2939.4	2914.4	2931.6
5°	2937.9	2909.7	2919.1	2909.7	2897.1	2900.3	2914.4	2905.0	2933.2	2906.5	2928.5
7.5°	2928.5	2894.0	2903.4	2898.7	2887.7	2889.3	2903.4	2895.6	2920.6	2895.6	2920.6
10°	2914.4	2878.3	2886.2	2865.8	2842.3	2859.5	2887.7	2879.9	2906.5	2878.3	2906.5
12.5°	2892.4	2856.4	2848.6	2781.2	2738.9	2771.8	2858.0	2858.0	2883.0	2856.4	2886.2
15°	2867.4	2828.2	2785.9	2684.0	2640.2	2673.1	2792.1	2832.9	2854.8	2828.2	2858.0
17.5°	2837.6	2792.1	2710.7	2591.6	2550.8	2583.8	2706.0	2795.3	2823.5	2795.3	2821.9
20°	2800.0	2746.7	2630.8	2494.4	2467.8	2497.6	2619.8	2749.8	2789.0	2754.5	2773.3
22.5°	2759.2	2695.0	2541.4	2419.2	2406.7	2425.5	2536.7	2693.4	2745.1	2709.1	2721.6
25°	2709.1	2633.9	2452.1	2350.3	2340.9	2351.9	2455.3	2627.6	2695.0	2657.4	2662.1
27.5°	2655.8	2574.4	2367.5	2292.3	2282.9	2287.6	2373.8	2554.0	2637.0	2599.4	2591.6
30°	2591.6	2503.8	2282.9	2214.0	2204.6	2221.8	2295.5	2478.8	2572.8	2535.2	2511.7
32.5°	2527.3	2427.1	2199.9	2146.6	2127.8	2143.5	2214.0	2400.4	2502.3	2463.1	2423.9
35°	2447.4	2345.6	2113.7	2060.4	2044.8	2062.0	2132.5	2319.0	2422.4	2383.2	2329.9
37.5°	2364.4	2259.4	2035.4	1986.8	1958.6	1978.9	2049.5	2234.3	2339.3	2298.6	2232.8
40°	2281.3	2168.5	1947.6	1897.5	1861.4	1891.2	1963.3	2145.0	2245.3	2207.7	2132.5
42.5°	2184.2	2077.7	1861.4	1790.9	1689.1	1784.7	1870.8	2055.7	2148.2	2112.1	2021.3
45°	2082.4	1980.5	1770.6	1599.8	1335.0	1615.4	1776.8	1961.7	2035.4	2000.9	1902.2
47.5°	1966.4	1880.2	1678.1	1418.0	1161.0	1433.7	1681.2	1872.4	1928.8	1891.2	1781.5
50°	1864.6	1780.0	1581.0	1264.5	1038.8	1281.7	1579.4	1772.1	1819.1	1784.7	1662.4
52.5°	1748.6	1675.0	1476.0	1128.1	948.0	1145.4	1472.8	1668.7	1706.3	1665.6	1543.4
55°	1634.2	1568.4	1364.7	1007.5	868.0	1023.2	1361.6	1562.2	1591.9	1544.9	1418.0
57.5°	1518.3	1458.7	1250.4	899.4	794.4	916.6	1258.2	1452.5	1472.8	1413.3	1297.4
60°	1397.6	1347.5	1134.4	803.8	722.3	817.9	1131.3	1342.8	1355.3	1291.1	1179.8
62.5°	1277.0	1231.6	1018.5	716.1	648.7	725.5	1026.3	1226.9	1234.7	1173.6	1059.2
65°	1153.2	1110.9	905.6	623.6	578.2	639.3	913.5	1106.2	1114.0	1045.1	941.7
67.5°	1024.7	990.3	785.0	553.1	510.8	557.8	800.7	984.0	988.7	921.3	827.3
70°	896.2	866.5	678.5	476.3	445.0	477.9	689.4	849.2	858.6	786.6	711.4
72.5°	764.6	741.1	575.0	396.4	368.2	396.4	581.3	725.5	731.7	672.2	598.5
75°	631.4	614.2	470.1	318.1	296.1	316.5	473.2	601.7	601.7	545.3	487.3
77.5°	503.0	490.4	360.4	244.4	228.8	241.3	361.9	476.3	473.2	429.3	383.9
80°	376.0	366.6	258.5	177.1	166.1	172.4	258.5	352.5	352.5	321.2	266.4
82.5°	269.5	258.5	170.8	115.9	109.7	112.8	167.7	246.0	250.7	227.2	180.2
85°	178.6	153.6	92.4	64.2	59.5	61.1	87.7	142.6	156.7	131.6	94.0
87.5°	78.3	51.7	23.5	9.4	4.7	6.3	18.8	45.4	59.5	39.2	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P520555

CATALOG NUMBER: 4WSLA-200-L830-UNV-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6
2.5°	2930.0	2905.0	2914.4	2920.6	2914.4	2942.6
5°	2926.9	2915.9	2914.4	2922.2	2909.7	2937.9
7.5°	2922.2	2915.9	2914.4	2917.5	2901.8	2928.5
10°	2911.2	2901.8	2905.0	2909.7	2889.3	2914.4
12.5°	2890.9	2881.5	2883.0	2898.7	2870.5	2892.4
15°	2856.4	2845.4	2856.4	2873.6	2848.6	2867.4
17.5°	2810.9	2793.7	2812.5	2839.2	2820.4	2837.6
20°	2753.0	2726.3	2746.7	2795.3	2778.0	2800.0
22.5°	2682.5	2649.6	2669.9	2740.4	2735.7	2759.2
25°	2602.6	2563.4	2591.6	2677.8	2687.2	2709.1
27.5°	2513.2	2469.4	2507.0	2608.8	2630.8	2655.8
30°	2416.1	2369.1	2413.0	2532.0	2565.0	2591.6
32.5°	2315.8	2264.1	2314.3	2445.9	2492.9	2527.3
35°	2210.8	2157.6	2214.0	2356.6	2413.0	2447.4
37.5°	2098.0	2046.3	2107.4	2262.5	2329.9	2364.4
40°	1982.1	1924.1	1993.0	2151.3	2240.6	2281.3
42.5°	1863.0	1790.9	1875.5	2046.3	2143.5	2184.2
45°	1729.8	1629.5	1743.9	1935.1	2036.9	2082.4
47.5°	1596.6	1496.4	1612.3	1816.0	1925.7	1966.4
50°	1468.1	1382.0	1474.4	1685.9	1812.9	1864.6
52.5°	1350.6	1280.1	1358.5	1559.0	1696.9	1748.6
55°	1241.0	1186.1	1250.4	1433.7	1574.7	1634.2
57.5°	1137.5	1103.1	1146.9	1314.6	1461.9	1518.3
60°	1040.4	1016.9	1048.2	1197.1	1328.7	1397.6
62.5°	944.8	932.3	955.8	1073.3	1204.9	1277.0
65°	852.4	849.2	861.8	965.2	1074.9	1153.2
67.5°	759.9	758.4	766.2	850.8	948.0	1024.7
70°	667.5	676.9	672.2	727.0	821.0	896.2
72.5°	573.5	587.6	579.7	614.2	705.1	764.6
75°	468.5	487.3	471.6	510.8	567.2	631.4
77.5°	360.4	380.7	361.9	396.4	457.5	503.0
80°	258.5	277.3	261.7	288.3	341.6	376.0
82.5°	163.0	177.1	164.5	191.2	244.4	269.5
85°	72.1	79.9	83.0	103.4	150.4	178.6
87.5°	3.1	1.6	3.1	20.4	53.3	78.3
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)