

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: P520558

Luminaire Tested: **4WSLA-200-L835-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520558
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-L835-UNV-U
Description: 4 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

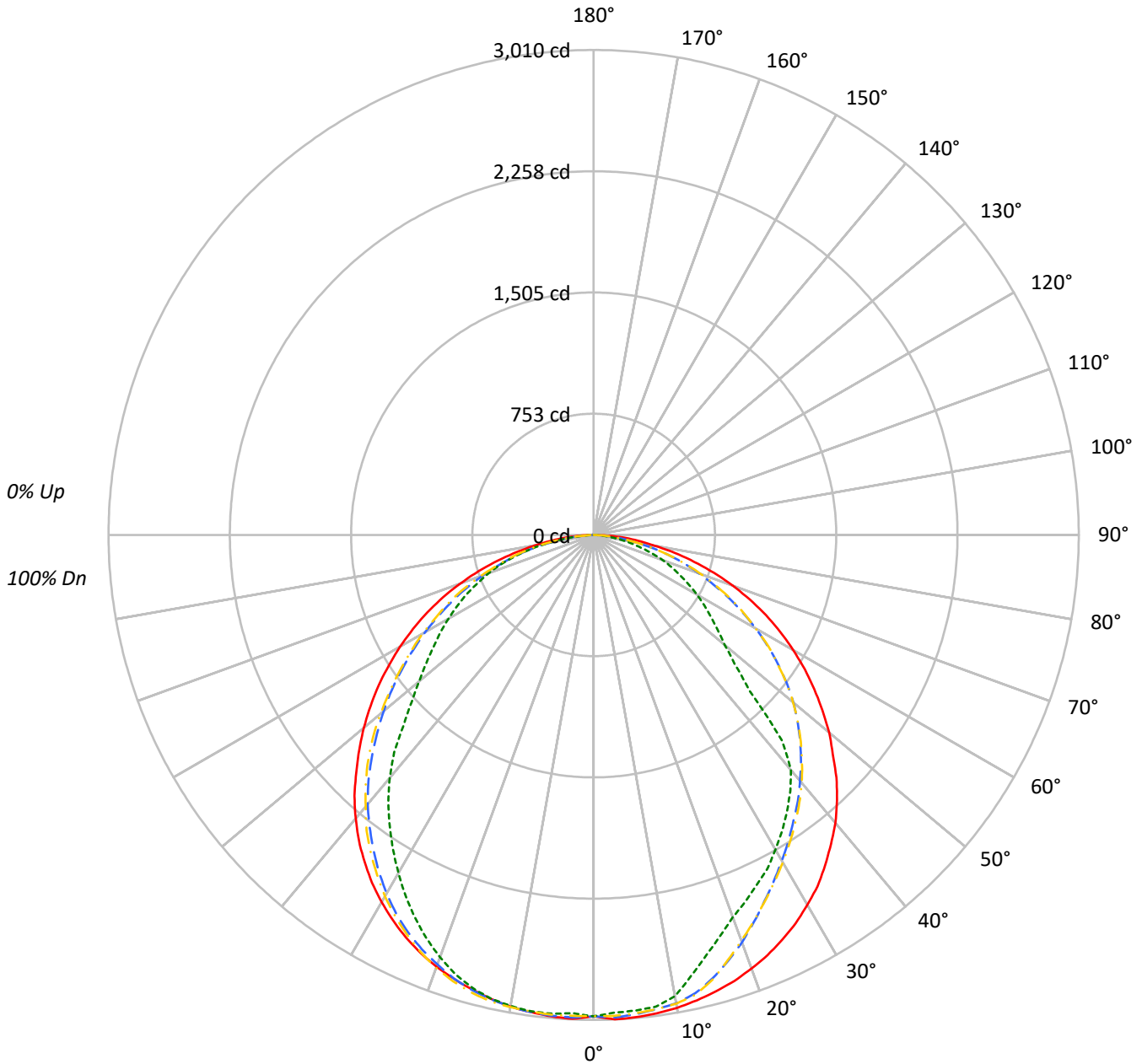
Lumens per Lamp: N/A
Luminaire Lumens: 8014.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16078	16078	16078	16078
5°	16235	16009	16209	16113
10°	16291	15888	16247	16221
15°	16342	15047	16270	16216
20°	16403	14457	16338	15971
25°	16455	14219	16370	15570
30°	16474	14013	16354	15059
35°	16448	13741	16279	14500
40°	16394	13377	16135	13827
45°	16211	10393	15846	12686
50°	15969	8897	15579	11835
55°	15685	8331	15279	11384
60°	15388	7952	14922	11196
65°	15022	7531	14511	11061
70°	14425	7163	13821	10894
75°	13431	6299	12797	10364
80°	11920	5266	11176	8793
85°	11282	3761	9899	5045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.9	3.5
10°-20°	809.6	10.1
20°-30°	1209.8	15.1
30°-40°	1440.0	18.0
40°-50°	1439.4	18.0
50°-60°	1238.6	15.5
60°-70°	932.2	11.6
70°-80°	531.2	6.6
80°-90°	129.3	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°	2303.2	28.7
0°-40°	3743.2	46.7
0°-60°	6421.2	80.1
0°-90°	8014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8014.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2987	2987	2987	2987	2987	
5°	3005	2963	3000	2982	3005	286
15°	2933	2700	2920	2910	2933	829
25°	2771	2394	2757	2622	2771	1278
35°	2503	2092	2478	2207	2503	1566
45°	2130	1366	2082	1667	2130	1640
55°	1672	888	1628	1213	1672	1495
65°	1180	591	1140	869	1180	1165
75°	646	303	615	498	646	684
85°	183	61	160	82	183	199
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°	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4
2.5°	3009.8	2982.5	2998.6	2993.8	2968.1	2977.7	2987.4	2977.7	3006.6	2980.9	2998.6
5°	3005.0	2976.1	2985.8	2976.1	2963.3	2966.5	2980.9	2971.3	3000.2	2972.9	2995.4
7.5°	2995.4	2960.1	2969.7	2964.9	2953.7	2955.3	2969.7	2961.7	2987.4	2961.7	2987.4
10°	2980.9	2944.1	2952.1	2931.3	2907.2	2924.9	2953.7	2945.7	2972.9	2944.1	2972.9
12.5°	2958.5	2921.6	2913.6	2844.7	2801.4	2835.1	2923.2	2923.2	2948.9	2921.6	2952.1
15°	2932.9	2892.8	2849.5	2745.4	2700.5	2734.1	2855.9	2897.6	2920.0	2892.8	2923.2
17.5°	2902.4	2855.9	2772.6	2650.8	2609.1	2642.8	2767.8	2859.1	2888.0	2859.1	2886.4
20°	2863.9	2809.5	2690.9	2551.4	2524.2	2554.6	2679.6	2812.7	2852.7	2817.5	2836.7
22.5°	2822.3	2756.6	2599.5	2474.5	2461.7	2480.9	2594.7	2755.0	2807.9	2771.0	2783.8
25°	2771.0	2694.1	2508.2	2404.0	2394.4	2405.6	2511.4	2687.7	2756.6	2718.1	2722.9
27.5°	2716.5	2633.2	2421.6	2344.7	2335.1	2339.9	2428.0	2612.3	2697.3	2658.8	2650.8
30°	2650.8	2561.0	2335.1	2264.6	2254.9	2272.6	2347.9	2535.4	2631.6	2593.1	2569.1
32.5°	2585.1	2482.5	2250.1	2195.6	2176.4	2192.4	2264.6	2455.3	2559.4	2519.4	2479.3
35°	2503.4	2399.2	2162.0	2107.5	2091.5	2109.1	2181.2	2371.9	2477.7	2437.6	2383.2
37.5°	2418.4	2311.0	2081.9	2032.2	2003.3	2024.2	2096.3	2285.4	2392.8	2351.1	2283.8
40°	2333.5	2218.1	1992.1	1940.8	1904.0	1934.4	2008.1	2194.0	2296.6	2258.1	2181.2
42.5°	2234.1	2125.1	1904.0	1831.8	1727.7	1825.4	1913.6	2102.7	2197.2	2160.4	2067.4
45°	2129.9	2025.8	1811.0	1636.3	1365.5	1652.3	1817.4	2006.5	2081.9	2046.6	1945.6
47.5°	2011.3	1923.2	1716.4	1450.4	1187.6	1466.4	1719.7	1915.2	1972.9	1934.4	1822.2
50°	1907.2	1820.6	1617.1	1293.3	1062.6	1311.0	1615.5	1812.6	1860.7	1825.4	1700.4
52.5°	1788.6	1713.2	1509.7	1153.9	969.6	1171.5	1506.5	1706.8	1745.3	1703.6	1578.6
55°	1671.6	1604.3	1395.9	1030.5	887.9	1046.5	1392.7	1597.8	1628.3	1580.2	1450.4
57.5°	1553.0	1492.1	1278.9	919.9	812.5	937.6	1286.9	1485.7	1506.5	1445.6	1327.0
60°	1429.6	1378.3	1160.3	822.2	738.8	836.6	1157.1	1373.5	1386.3	1320.6	1206.8
62.5°	1306.2	1259.7	1041.7	732.4	663.5	742.0	1049.7	1254.9	1262.9	1200.4	1083.4
65°	1179.6	1136.3	926.3	637.9	591.4	653.9	934.3	1131.5	1139.5	1069.0	963.2
67.5°	1048.1	1012.9	802.9	565.7	522.5	570.5	819.0	1006.5	1011.3	942.4	846.2
70°	916.7	886.3	694.0	487.2	455.2	488.8	705.2	868.6	878.3	804.5	727.6
72.5°	782.1	758.1	588.2	405.5	376.6	405.5	594.6	742.0	748.4	687.5	612.2
75°	645.9	628.2	480.8	325.3	302.9	323.7	484.0	615.4	615.4	557.7	498.4
77.5°	514.5	501.6	368.6	250.0	234.0	246.8	370.2	487.2	484.0	439.1	392.7
80°	384.6	375.0	264.4	181.1	169.9	176.3	264.4	360.6	360.6	328.5	272.5
82.5°	275.7	264.4	174.7	118.6	112.2	115.4	171.5	251.6	256.4	232.4	184.3
85°	182.7	157.1	94.6	65.7	60.9	62.5	89.7	145.8	160.3	134.6	96.2
87.5°	80.1	52.9	24.0	9.6	4.8	6.4	19.2	46.5	60.9	40.1	12.8
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°	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4
2.5°	2997.0	2971.3	2980.9	2987.4	2980.9	3009.8
5°	2993.8	2982.5	2980.9	2989.0	2976.1	3005.0
7.5°	2989.0	2982.5	2980.9	2984.1	2968.1	2995.4
10°	2977.7	2968.1	2971.3	2976.1	2955.3	2980.9
12.5°	2956.9	2947.3	2948.9	2964.9	2936.1	2958.5
15°	2921.6	2910.4	2921.6	2939.3	2913.6	2932.9
17.5°	2875.2	2857.5	2876.8	2904.0	2884.8	2902.4
20°	2815.9	2788.6	2809.5	2859.1	2841.5	2863.9
22.5°	2743.8	2710.1	2730.9	2803.0	2798.2	2822.3
25°	2662.0	2621.9	2650.8	2738.9	2748.6	2771.0
27.5°	2570.7	2525.8	2564.3	2668.4	2690.9	2716.5
30°	2471.3	2423.2	2468.1	2589.9	2623.6	2650.8
32.5°	2368.7	2315.8	2367.1	2501.7	2549.8	2585.1
35°	2261.4	2206.9	2264.6	2410.4	2468.1	2503.4
37.5°	2146.0	2093.1	2155.6	2314.2	2383.2	2418.4
40°	2027.4	1968.1	2038.6	2200.4	2291.8	2333.5
42.5°	1905.6	1831.8	1918.4	2093.1	2192.4	2234.1
45°	1769.3	1666.8	1783.8	1979.3	2083.5	2129.9
47.5°	1633.1	1530.5	1649.1	1857.5	1969.7	2011.3
50°	1501.7	1413.5	1508.1	1724.5	1854.3	1907.2
52.5°	1381.5	1309.4	1389.5	1594.6	1735.7	1788.6
55°	1269.3	1213.2	1278.9	1466.4	1610.7	1671.6
57.5°	1163.5	1128.3	1173.1	1344.6	1495.3	1553.0
60°	1064.2	1040.1	1072.2	1224.4	1359.1	1429.6
62.5°	966.4	953.6	977.6	1097.8	1232.4	1306.2
65°	871.8	868.6	881.5	987.2	1099.4	1179.6
67.5°	777.3	775.7	783.7	870.2	969.6	1048.1
70°	682.7	692.3	687.5	743.6	839.8	916.7
72.5°	586.6	601.0	593.0	628.2	721.2	782.1
75°	479.2	498.4	482.4	522.5	580.2	645.9
77.5°	368.6	389.4	370.2	405.5	468.0	514.5
80°	264.4	283.7	267.6	294.9	349.4	384.6
82.5°	166.7	181.1	168.3	195.5	250.0	275.7
85°	73.7	81.7	84.9	105.8	153.9	182.7
87.5°	3.2	1.6	3.2	20.8	54.5	80.1
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)