

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: P520561

Luminaire Tested: **4WSLA-200-L840-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520561
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-L840-UNV-U
Description: 4 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

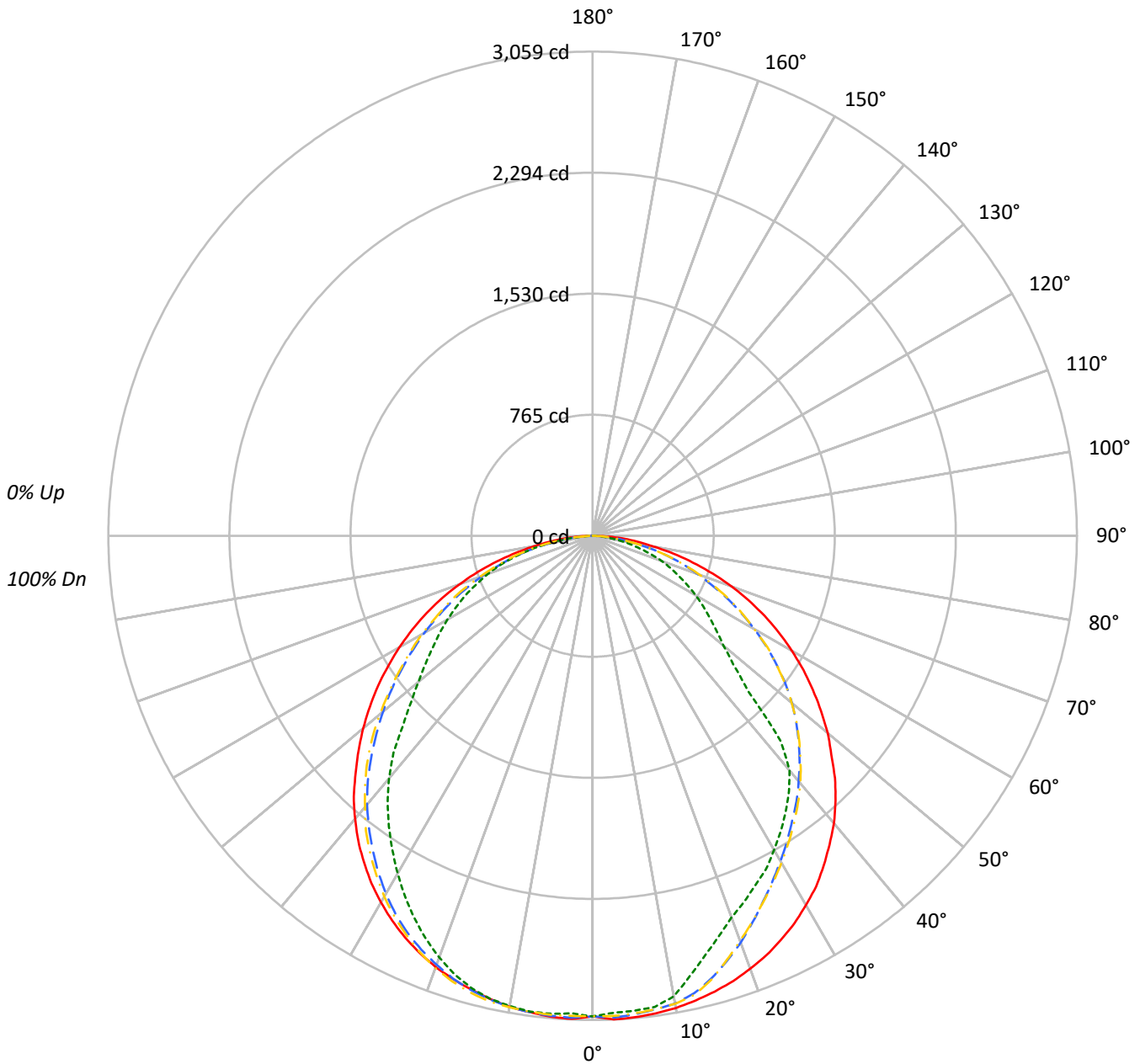
Lumens per Lamp: N/A
Luminaire Lumens: 8145.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.3
Input Voltage (V): NR
Input Current (A_{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				
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°	16341	16341	16341	16341
5°	16500	16271	16473	16377
10°	16557	16147	16512	16486
15°	16608	15292	16536	16481
20°	16671	14693	16606	16232
25°	16724	14451	16637	15824
30°	16743	14243	16621	15305
35°	16716	13966	16545	14736
40°	16662	13595	16399	14053
45°	16476	10563	16105	12893
50°	16229	9042	15834	12029
55°	15941	8467	15528	11569
60°	15639	8083	15166	11379
65°	15266	7654	14748	11242
70°	14661	7279	14046	11073
75°	13649	6403	13007	10534
80°	12115	5353	11359	8935
85°	11467	3822	10059	5132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.5	3.5
10°-20°	822.8	10.1
20°-30°	1229.5	15.1
30°-40°	1463.6	18.0
40°-50°	1462.9	18.0
50°-60°	1258.8	15.5
60°-70°	947.5	11.6
70°-80°	539.9	6.6
80°-90°	131.4	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°	2340.9	28.7
0°-40°	3804.4	46.7
0°-60°	6526.2	80.1
0°-90°	8145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8145.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3036	3036	3036	3036	3036	
5°	3054	3012	3049	3031	3054	291
15°	2981	2745	2968	2958	2981	842
25°	2816	2434	2802	2665	2816	1299
35°	2544	2126	2518	2243	2544	1592
45°	2165	1388	2116	1694	2165	1667
55°	1699	902	1655	1233	1699	1519
65°	1199	601	1158	883	1199	1184
75°	656	308	626	507	656	695
85°	186	62	163	83	186	202
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°	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2
2.5°	3059.0	3031.3	3047.6	3042.7	3016.6	3026.4	3036.2	3026.4	3055.7	3029.7	3047.6
5°	3054.1	3024.8	3034.6	3024.8	3011.8	3015.0	3029.7	3019.9	3049.2	3021.5	3044.3
7.5°	3044.3	3008.5	3018.3	3013.4	3002.0	3003.6	3018.3	3010.1	3036.2	3010.1	3036.2
10°	3029.7	2992.2	3000.4	2979.2	2954.7	2972.7	3002.0	2993.8	3021.5	2992.2	3021.5
12.5°	3006.9	2969.4	2961.3	2891.2	2847.2	2881.4	2971.0	2971.0	2997.1	2969.4	3000.4
15°	2980.8	2940.1	2896.1	2790.2	2744.6	2778.8	2902.6	2945.0	2967.8	2940.1	2971.0
17.5°	2949.9	2902.6	2817.9	2694.1	2651.8	2686.0	2813.0	2905.9	2935.2	2905.9	2933.6
20°	2910.8	2855.4	2734.8	2593.1	2565.4	2596.4	2723.4	2858.6	2899.4	2863.5	2883.1
22.5°	2868.4	2801.6	2642.0	2515.0	2501.9	2521.5	2637.1	2800.0	2853.8	2816.3	2829.3
25°	2816.3	2738.1	2549.2	2443.3	2433.5	2444.9	2552.4	2731.6	2801.6	2762.5	2767.4
27.5°	2760.9	2676.2	2461.2	2383.0	2373.2	2378.1	2467.7	2655.0	2741.4	2702.3	2694.1
30°	2694.1	2602.9	2373.2	2301.6	2291.8	2309.7	2386.3	2576.8	2674.6	2635.5	2611.1
32.5°	2627.3	2523.1	2286.9	2231.5	2212.0	2228.3	2301.6	2495.4	2601.3	2560.6	2519.8
35°	2544.3	2438.4	2197.3	2141.9	2125.7	2143.6	2216.9	2410.7	2518.2	2477.5	2422.1
37.5°	2457.9	2348.8	2115.9	2065.4	2036.1	2057.2	2130.5	2322.7	2431.9	2389.5	2321.1
40°	2371.6	2254.3	2024.7	1972.5	1935.1	1966.0	2041.0	2229.9	2334.2	2295.1	2216.9
42.5°	2270.6	2159.9	1935.1	1861.8	1755.9	1855.3	1944.9	2137.1	2233.2	2195.7	2101.2
45°	2164.7	2058.9	1840.6	1663.1	1387.8	1679.4	1847.1	2039.3	2115.9	2080.0	1977.4
47.5°	2044.2	1954.6	1744.5	1474.1	1207.0	1490.4	1747.8	1946.5	2005.1	1966.0	1852.0
50°	1938.3	1850.4	1643.5	1314.5	1079.9	1332.4	1641.9	1842.2	1891.1	1855.3	1728.2
52.5°	1817.8	1741.2	1534.4	1172.8	985.5	1190.7	1531.1	1734.7	1773.8	1731.5	1604.4
55°	1698.9	1630.5	1418.7	1047.4	902.4	1063.6	1415.5	1624.0	1654.9	1606.1	1474.1
57.5°	1578.4	1516.5	1299.8	935.0	825.8	952.9	1308.0	1509.9	1531.1	1469.2	1348.7
60°	1452.9	1400.8	1179.3	835.6	750.9	850.3	1176.0	1395.9	1409.0	1342.2	1226.5
62.5°	1327.5	1280.3	1058.8	744.4	674.3	754.2	1066.9	1275.4	1283.5	1220.0	1101.1
65°	1198.8	1154.9	941.5	648.3	601.0	664.6	949.6	1150.0	1158.1	1086.4	978.9
67.5°	1065.3	1029.4	816.1	575.0	531.0	579.9	832.3	1022.9	1027.8	957.8	860.0
70°	931.7	900.8	705.3	495.2	462.6	496.8	716.7	882.8	892.6	817.7	739.5
72.5°	794.9	770.4	597.8	412.1	382.8	412.1	604.3	754.2	760.7	698.8	622.2
75°	656.4	638.5	488.7	330.7	307.9	329.0	491.9	625.5	625.5	566.8	506.6
77.5°	522.9	509.8	374.6	254.1	237.8	250.8	376.3	495.2	491.9	446.3	399.1
80°	390.9	381.2	268.8	184.1	172.7	179.2	268.8	366.5	366.5	333.9	276.9
82.5°	280.2	268.8	177.5	120.5	114.0	117.3	174.3	255.7	260.6	236.2	187.3
85°	185.7	159.6	96.1	66.8	61.9	63.5	91.2	148.2	162.9	136.8	97.7
87.5°	81.4	53.8	24.4	9.8	4.9	6.5	19.5	47.2	61.9	40.7	13.0
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):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2
2.5°	3046.0	3019.9	3029.7	3036.2	3029.7	3059.0
5°	3042.7	3031.3	3029.7	3037.8	3024.8	3054.1
7.5°	3037.8	3031.3	3029.7	3032.9	3016.6	3044.3
10°	3026.4	3016.6	3019.9	3024.8	3003.6	3029.7
12.5°	3005.2	2995.5	2997.1	3013.4	2984.1	3006.9
15°	2969.4	2958.0	2969.4	2987.3	2961.3	2980.8
17.5°	2922.2	2904.2	2923.8	2951.5	2931.9	2949.9
20°	2861.9	2834.2	2855.4	2905.9	2888.0	2910.8
22.5°	2788.6	2754.4	2775.6	2848.9	2844.0	2868.4
25°	2705.5	2664.8	2694.1	2783.7	2793.5	2816.3
27.5°	2612.7	2567.1	2606.2	2712.0	2734.8	2760.9
30°	2511.7	2462.8	2508.4	2632.2	2666.4	2694.1
32.5°	2407.4	2353.7	2405.8	2542.6	2591.5	2627.3
35°	2298.3	2242.9	2301.6	2449.8	2508.4	2544.3
37.5°	2181.0	2127.3	2190.8	2352.1	2422.1	2457.9
40°	2060.5	2000.2	2071.9	2236.4	2329.3	2371.6
42.5°	1936.7	1861.8	1949.7	2127.3	2228.3	2270.6
45°	1798.3	1694.0	1812.9	2011.6	2117.5	2164.7
47.5°	1659.8	1555.6	1676.1	1887.8	2001.9	2044.2
50°	1526.2	1436.7	1532.8	1752.6	1884.6	1938.3
52.5°	1404.1	1330.8	1412.2	1620.7	1764.1	1817.8
55°	1290.1	1233.0	1299.8	1490.4	1637.0	1698.9
57.5°	1182.5	1146.7	1192.3	1366.6	1519.7	1578.4
60°	1081.6	1057.1	1089.7	1244.4	1381.3	1452.9
62.5°	982.2	969.2	993.6	1115.8	1252.6	1327.5
65°	886.1	882.8	895.9	1003.4	1117.4	1198.8
67.5°	790.0	788.4	796.5	884.5	985.5	1065.3
70°	693.9	703.7	698.8	755.8	853.5	931.7
72.5°	596.2	610.8	602.7	638.5	733.0	794.9
75°	487.0	506.6	490.3	531.0	589.6	656.4
77.5°	374.6	395.8	376.3	412.1	475.6	522.9
80°	268.8	288.3	272.0	299.7	355.1	390.9
82.5°	169.4	184.1	171.0	198.7	254.1	280.2
85°	74.9	83.1	86.3	107.5	156.4	185.7
87.5°	3.3	1.6	3.3	21.2	55.4	81.4
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)