

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: P520633

Luminaire Tested: **8WSLA-100-L840-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520633
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: 8WSLA-100-L840-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

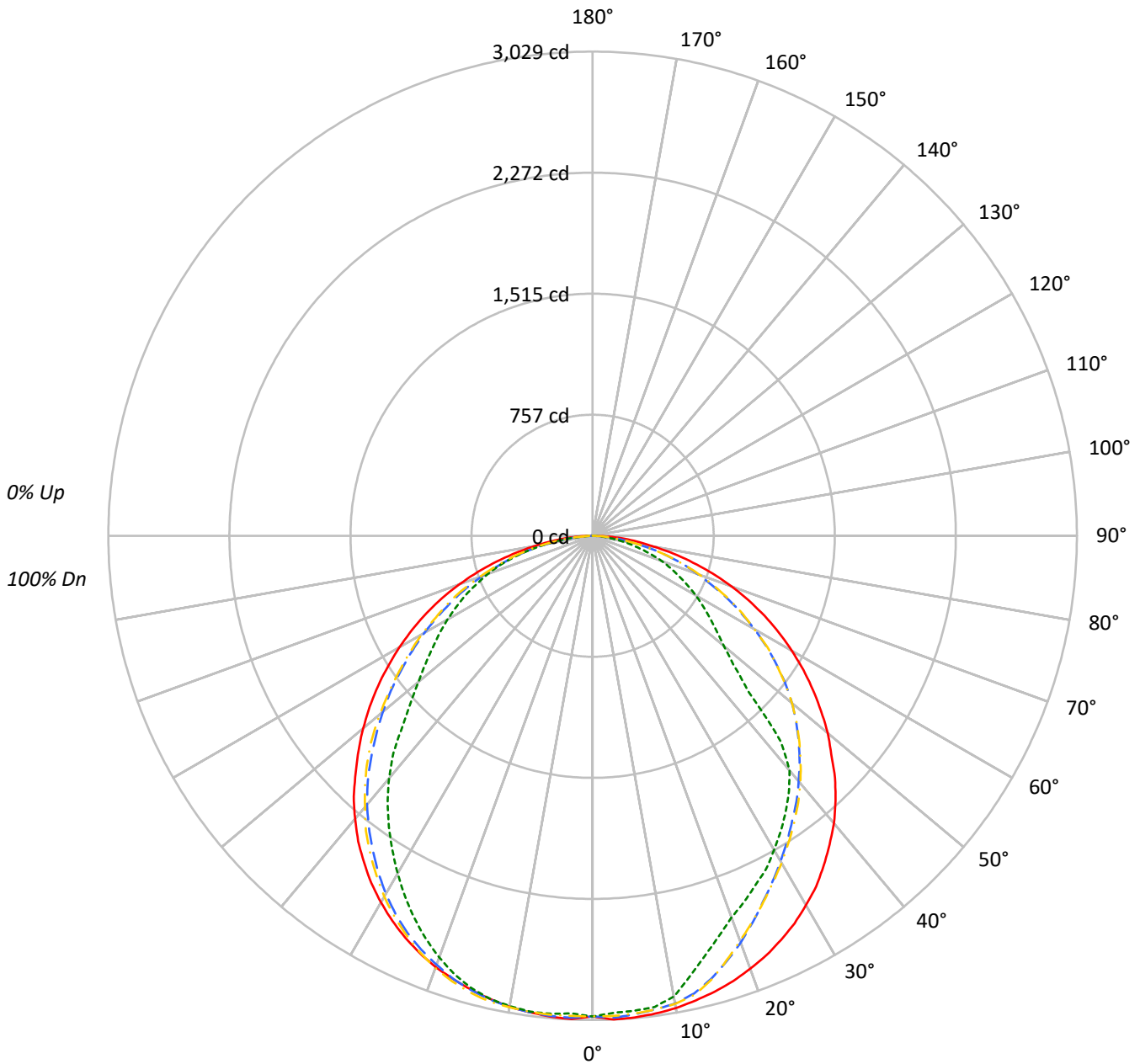
Lumens per Lamp: N/A
Luminaire Lumens: 8066.0 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 63.4
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°	8091	8091	8091	8091
5°	8170	8057	8157	8109
10°	8198	7996	8176	8163
15°	8224	7572	8188	8161
20°	8255	7275	8222	8037
25°	8281	7155	8238	7836
30°	8290	7052	8230	7578
35°	8277	6915	8192	7297
40°	8250	6732	8120	6958
45°	8158	5230	7974	6384
50°	8036	4477	7840	5956
55°	7893	4192	7689	5729
60°	7744	4002	7509	5634
65°	7559	3790	7303	5567
70°	7260	3604	6955	5482
75°	6759	3170	6440	5216
80°	5999	2650	5624	4424
85°	5678	1893	4980	2541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.7	3.5
10°-20°	814.8	10.1
20°-30°	1217.6	15.1
30°-40°	1449.4	18.0
40°-50°	1448.8	18.0
50°-60°	1246.6	15.5
60°-70°	938.3	11.6
70°-80°	534.7	6.6
80°-90°	130.1	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°	2318.1	28.7
0°-40°	3767.5	46.7
0°-60°	6462.9	80.1
0°-90°	8066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8066.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3007	3007	3007	3007	3007	
5°	3024	2982	3020	3002	3024	288
15°	2952	2718	2939	2929	2952	834
25°	2789	2410	2774	2639	2789	1286
35°	2520	2105	2494	2221	2520	1577
45°	2144	1374	2095	1678	2144	1651
55°	1682	894	1639	1221	1682	1504
65°	1187	595	1147	874	1187	1172
75°	650	305	619	502	650	688
85°	184	61	161	82	184	200
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°	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7
2.5°	3029.3	3001.9	3018.0	3013.2	2987.4	2997.1	3006.7	2997.1	3026.1	3000.3	3018.0
5°	3024.5	2995.4	3005.1	2995.4	2982.5	2985.8	3000.3	2990.6	3019.6	2992.2	3014.8
7.5°	3014.8	2979.3	2989.0	2984.2	2972.9	2974.5	2989.0	2980.9	3006.7	2980.9	3006.7
10°	3000.3	2963.2	2971.3	2950.3	2926.1	2943.8	2972.9	2964.8	2992.2	2963.2	2992.2
12.5°	2977.7	2940.6	2932.5	2863.2	2819.6	2853.5	2942.2	2942.2	2968.0	2940.6	2971.3
15°	2951.9	2911.6	2868.0	2763.2	2718.0	2751.9	2874.5	2916.4	2939.0	2911.6	2942.2
17.5°	2921.2	2874.5	2790.6	2668.0	2626.1	2659.9	2785.7	2877.7	2906.7	2877.7	2905.1
20°	2882.5	2827.7	2708.3	2568.0	2540.6	2571.2	2697.0	2830.9	2871.2	2835.8	2855.1
22.5°	2840.6	2774.5	2616.4	2490.6	2477.7	2497.0	2611.5	2772.8	2826.1	2789.0	2801.9
25°	2789.0	2711.5	2524.4	2419.6	2409.9	2421.2	2527.7	2705.1	2774.5	2735.7	2740.6
27.5°	2734.1	2650.3	2437.3	2359.9	2350.2	2355.1	2443.8	2629.3	2714.8	2676.1	2668.0
30°	2668.0	2577.7	2350.2	2279.2	2269.6	2287.3	2363.1	2551.9	2648.6	2609.9	2585.7
32.5°	2601.9	2498.6	2264.7	2209.9	2190.5	2206.7	2279.2	2471.2	2576.1	2535.7	2495.4
35°	2519.6	2414.7	2176.0	2121.2	2105.0	2122.8	2195.4	2387.3	2493.8	2453.5	2398.6
37.5°	2434.1	2326.0	2095.4	2045.4	2016.3	2037.3	2109.9	2300.2	2408.3	2366.4	2298.6
40°	2348.6	2232.5	2005.0	1953.4	1916.3	1947.0	2021.2	2208.3	2311.5	2272.8	2195.4
42.5°	2248.6	2138.9	1916.3	1843.7	1738.9	1837.3	1926.0	2116.3	2211.5	2174.4	2080.8
45°	2143.8	2038.9	1822.8	1646.9	1374.3	1663.1	1829.2	2019.5	2095.4	2059.9	1958.3
47.5°	2024.4	1935.7	1727.6	1459.8	1195.3	1475.9	1730.8	1927.6	1985.7	1947.0	1834.0
50°	1919.5	1832.4	1627.6	1301.7	1069.5	1319.5	1626.0	1824.4	1872.8	1837.3	1711.5
52.5°	1800.2	1724.4	1519.5	1161.4	975.9	1179.1	1516.3	1717.9	1756.6	1714.7	1588.9
55°	1682.4	1614.7	1405.0	1037.2	893.6	1053.3	1401.7	1608.2	1638.9	1590.5	1459.8
57.5°	1563.1	1501.8	1287.2	925.9	817.8	943.6	1295.3	1495.3	1516.3	1455.0	1335.6
60°	1438.8	1387.2	1167.9	827.5	743.6	842.0	1164.6	1382.4	1395.3	1329.2	1214.6
62.5°	1314.6	1267.9	1048.5	737.2	667.8	746.8	1056.6	1263.0	1271.1	1208.2	1090.4
65°	1187.2	1143.7	932.3	642.0	595.2	658.1	940.4	1138.8	1146.9	1075.9	969.4
67.5°	1054.9	1019.5	808.1	569.4	525.9	574.2	824.3	1013.0	1017.8	948.5	851.7
70°	922.7	892.0	698.5	490.4	458.1	492.0	709.7	874.3	884.0	809.8	732.3
72.5°	787.2	763.0	592.0	408.1	379.1	408.1	598.4	746.8	753.3	692.0	616.2
75°	650.1	632.3	483.9	327.5	304.9	325.8	487.1	619.4	619.4	561.3	501.7
77.5°	517.8	504.9	371.0	251.6	235.5	248.4	372.6	490.4	487.1	442.0	395.2
80°	387.1	377.5	266.2	182.3	171.0	177.4	266.2	362.9	362.9	330.7	274.2
82.5°	277.4	266.2	175.8	119.4	112.9	116.1	172.6	253.2	258.1	233.9	185.5
85°	183.9	158.1	95.2	66.1	61.3	62.9	90.3	146.8	161.3	135.5	96.8
87.5°	80.7	53.2	24.2	9.7	4.8	6.5	19.4	46.8	61.3	40.3	12.9
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°	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7
2.5°	3016.4	2990.6	3000.3	3006.7	3000.3	3029.3
5°	3013.2	3001.9	3000.3	3008.4	2995.4	3024.5
7.5°	3008.4	3001.9	3000.3	3003.5	2987.4	3014.8
10°	2997.1	2987.4	2990.6	2995.4	2974.5	3000.3
12.5°	2976.1	2966.4	2968.0	2984.2	2955.1	2977.7
15°	2940.6	2929.3	2940.6	2958.3	2932.5	2951.9
17.5°	2893.8	2876.1	2895.4	2922.9	2903.5	2921.2
20°	2834.1	2806.7	2827.7	2877.7	2860.0	2882.5
22.5°	2761.6	2727.7	2748.6	2821.2	2816.4	2840.6
25°	2679.3	2639.0	2668.0	2756.7	2766.4	2789.0
27.5°	2587.3	2542.2	2580.9	2685.7	2708.3	2734.1
30°	2487.3	2438.9	2484.1	2606.7	2640.6	2668.0
32.5°	2384.1	2330.9	2382.5	2518.0	2566.4	2601.9
35°	2276.0	2221.2	2279.2	2426.0	2484.1	2519.6
37.5°	2159.9	2106.7	2169.6	2329.3	2398.6	2434.1
40°	2040.5	1980.8	2051.8	2214.7	2306.7	2348.6
42.5°	1917.9	1843.7	1930.8	2106.7	2206.7	2248.6
45°	1780.8	1677.6	1795.3	1992.1	2097.0	2143.8
47.5°	1643.7	1540.5	1659.8	1869.5	1982.4	2024.4
50°	1511.4	1422.7	1517.9	1735.6	1866.3	1919.5
52.5°	1390.5	1317.9	1398.5	1605.0	1746.9	1800.2
55°	1277.5	1221.1	1287.2	1475.9	1621.1	1682.4
57.5°	1171.1	1135.6	1180.8	1353.4	1505.0	1563.1
60°	1071.1	1046.9	1079.1	1232.4	1367.9	1438.8
62.5°	972.7	959.8	984.0	1104.9	1240.4	1314.6
65°	877.5	874.3	887.2	993.6	1106.6	1187.2
67.5°	782.3	780.7	788.8	875.9	975.9	1054.9
70°	687.2	696.8	692.0	748.5	845.2	922.7
72.5°	590.4	604.9	596.8	632.3	725.9	787.2
75°	482.3	501.7	485.5	525.9	583.9	650.1
77.5°	371.0	392.0	372.6	408.1	471.0	517.8
80°	266.2	285.5	269.4	296.8	351.6	387.1
82.5°	167.8	182.3	169.4	196.8	251.6	277.4
85°	74.2	82.3	85.5	106.5	154.9	183.9
87.5°	3.2	1.6	3.2	21.0	54.8	80.7
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)