

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: P520636

Luminaire Tested: **8WSLA-100-L850-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520636
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-L850-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

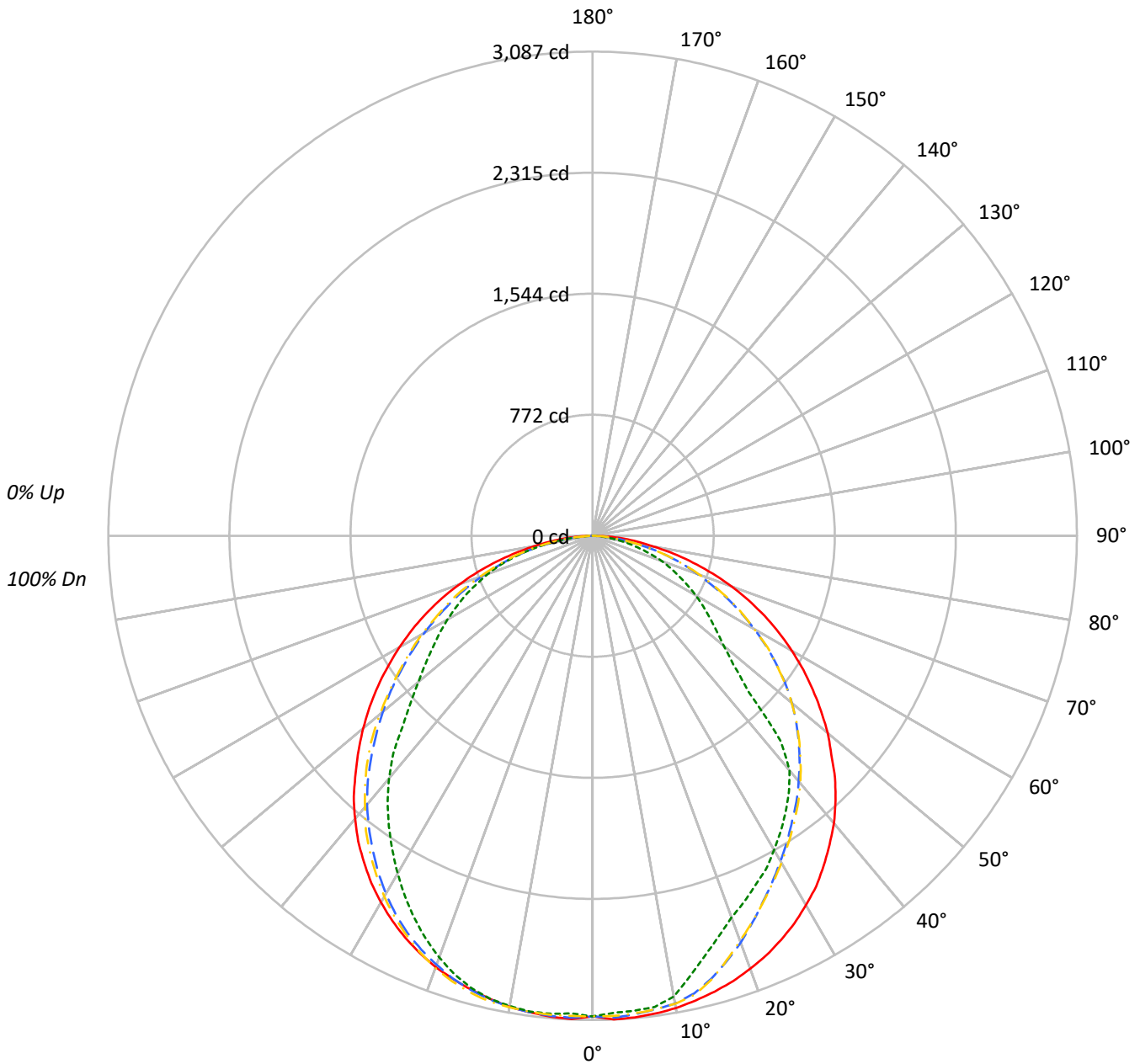
Lumens per Lamp: N/A
Luminaire Lumens: 8220.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P520636

CATALOG NUMBER: 8WSLA-100-L850-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520636

CATALOG NUMBER: 8WSLA-100-L850-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°	8245	8245	8245	8245
5°	8326	8210	8313	8264
10°	8355	8148	8332	8319
15°	8381	7717	8344	8316
20°	8412	7414	8379	8191
25°	8439	7292	8395	7985
30°	8448	7187	8387	7723
35°	8435	7047	8349	7436
40°	8408	6860	8275	7091
45°	8314	5330	8127	6506
50°	8189	4563	7990	6070
55°	8044	4273	7836	5838
60°	7892	4078	7653	5742
65°	7704	3862	7442	5673
70°	7398	3674	7087	5587
75°	6888	3230	6563	5315
80°	6113	2700	5732	4510
85°	5786	1930	5076	2587



TEST NUMBER: P520636

CATALOG NUMBER: 8WSLA-100-L850-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.2	3.5
10°-20°	830.4	10.1
20°-30°	1240.8	15.1
30°-40°	1477.1	18.0
40°-50°	1476.4	18.0
50°-60°	1270.4	15.5
60°-70°	956.2	11.6
70°-80°	544.9	6.6
80°-90°	132.6	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°	2362.4	28.7
0°-40°	3839.5	46.7
0°-60°	6586.3	80.1
0°-90°	8220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8220.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3064	3064	3064	3064	3064	
5°	3082	3040	3077	3059	3082	293
15°	3008	2770	2995	2985	3008	850
25°	2842	2456	2827	2689	2842	1311
35°	2568	2145	2541	2264	2568	1607
45°	2185	1401	2135	1710	2185	1682
55°	1714	911	1670	1244	1714	1533
65°	1210	607	1169	891	1210	1195
75°	662	311	631	511	662	701
85°	187	62	164	84	187	204
90°	0	0	0	0	0	



TEST NUMBER: P520636

CATALOG NUMBER: 8WSLA-100-L850-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3064.1	3064.1	3064.1	3064.1	3064.1	3064.1	3064.1	3064.1	3064.1	3064.1	3064.1
2.5°	3087.2	3059.2	3075.7	3070.7	3044.4	3054.3	3064.1	3054.3	3083.9	3057.6	3075.7
5°	3082.2	3052.6	3062.5	3052.6	3039.5	3042.8	3057.6	3047.7	3077.3	3049.3	3072.4
7.5°	3072.4	3036.2	3046.1	3041.1	3029.6	3031.3	3046.1	3037.8	3064.1	3037.8	3064.1
10°	3057.6	3019.8	3028.0	3006.6	2982.0	3000.0	3029.6	3021.4	3049.3	3019.8	3049.3
12.5°	3034.6	2996.7	2988.5	2917.8	2873.5	2908.0	2998.4	2998.4	3024.7	2996.7	3028.0
15°	3008.3	2967.2	2922.8	2815.9	2769.9	2804.4	2929.3	2972.1	2995.1	2967.2	2998.4
17.5°	2977.0	2929.3	2843.9	2718.9	2676.2	2710.7	2838.9	2932.6	2962.2	2932.6	2960.6
20°	2937.6	2881.7	2760.0	2617.0	2589.1	2620.3	2748.5	2885.0	2926.1	2889.9	2909.6
22.5°	2894.8	2827.4	2666.3	2538.1	2525.0	2544.7	2661.4	2825.8	2880.0	2842.2	2855.4
25°	2842.2	2763.3	2572.6	2465.8	2455.9	2467.4	2575.9	2756.7	2827.4	2788.0	2792.9
27.5°	2786.3	2700.9	2483.9	2405.0	2395.1	2400.0	2490.4	2679.5	2766.6	2727.2	2718.9
30°	2718.9	2626.9	2395.1	2322.8	2312.9	2331.0	2408.2	2600.6	2699.2	2659.8	2635.1
32.5°	2651.5	2546.3	2308.0	2252.1	2232.4	2248.8	2322.8	2518.4	2625.2	2584.1	2543.0
35°	2567.7	2460.8	2217.6	2161.7	2145.2	2163.3	2237.3	2432.9	2541.4	2500.3	2444.4
37.5°	2480.6	2370.4	2135.4	2084.4	2054.8	2076.2	2150.2	2344.1	2454.3	2411.5	2342.5
40°	2393.5	2275.1	2043.3	1990.7	1952.9	1984.1	2059.7	2250.4	2355.6	2316.2	2237.3
42.5°	2291.5	2179.8	1952.9	1878.9	1772.1	1872.4	1962.8	2156.7	2253.7	2215.9	2120.6
45°	2184.7	2077.8	1857.6	1678.4	1400.6	1694.8	1864.1	2058.1	2135.4	2099.2	1995.6
47.5°	2063.0	1972.6	1760.6	1487.7	1218.1	1504.1	1763.9	1964.4	2023.6	1984.1	1869.1
50°	1956.2	1867.4	1658.6	1326.6	1089.9	1344.7	1657.0	1859.2	1908.5	1872.4	1744.1
52.5°	1834.5	1757.3	1548.5	1183.6	994.5	1201.7	1545.2	1750.7	1790.2	1747.4	1619.2
55°	1714.5	1645.5	1431.8	1057.0	910.7	1073.4	1428.5	1638.9	1670.2	1620.8	1487.7
57.5°	1592.9	1530.4	1311.8	943.6	833.4	961.7	1320.0	1523.9	1545.2	1482.8	1361.1
60°	1466.3	1413.7	1190.2	843.3	757.8	858.1	1186.9	1408.8	1421.9	1354.5	1237.8
62.5°	1339.7	1292.1	1068.5	751.2	680.6	761.1	1076.7	1287.1	1295.4	1231.2	1111.2
65°	1209.9	1165.5	950.1	654.3	606.6	670.7	958.4	1160.6	1168.8	1096.5	988.0
67.5°	1075.1	1038.9	823.6	580.3	535.9	585.2	840.0	1032.3	1037.3	966.6	868.0
70°	940.3	909.1	711.8	499.7	466.9	501.4	723.3	891.0	900.8	825.2	746.3
72.5°	802.2	777.5	603.3	415.9	386.3	415.9	609.9	761.1	767.7	705.2	628.0
75°	662.5	644.4	493.2	333.7	310.7	332.1	496.4	631.2	631.2	572.1	511.2
77.5°	527.7	514.5	378.1	256.4	240.0	253.2	379.7	499.7	496.4	450.4	402.7
80°	394.5	384.7	271.2	185.8	174.2	180.8	271.2	369.9	369.9	337.0	279.5
82.5°	282.7	271.2	179.2	121.6	115.1	118.4	175.9	258.1	263.0	238.4	189.0
85°	187.4	161.1	97.0	67.4	62.5	64.1	92.1	149.6	164.4	138.1	98.6
87.5°	82.2	54.2	24.7	9.9	4.9	6.6	19.7	47.7	62.5	41.1	13.2
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: P520636

CATALOG NUMBER: 8WSLA-100-L850-UNV-U

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3064.1	3064.1	3064.1	3064.1	3064.1	3064.1
2.5°	3074.0	3047.7	3057.6	3064.1	3057.6	3087.2
5°	3070.7	3059.2	3057.6	3065.8	3052.6	3082.2
7.5°	3065.8	3059.2	3057.6	3060.9	3044.4	3072.4
10°	3054.3	3044.4	3047.7	3052.6	3031.3	3057.6
12.5°	3032.9	3023.0	3024.7	3041.1	3011.5	3034.6
15°	2996.7	2985.2	2996.7	3014.8	2988.5	3008.3
17.5°	2949.1	2931.0	2950.7	2978.7	2958.9	2977.0
20°	2888.3	2860.3	2881.7	2932.6	2914.6	2937.6
22.5°	2814.3	2779.8	2801.1	2875.1	2870.2	2894.8
25°	2730.4	2689.3	2718.9	2809.3	2819.2	2842.2
27.5°	2636.7	2590.7	2630.2	2737.0	2760.0	2786.3
30°	2534.8	2485.5	2531.5	2656.5	2691.0	2718.9
32.5°	2429.6	2375.4	2428.0	2566.1	2615.4	2651.5
35°	2319.5	2263.6	2322.8	2472.4	2531.5	2567.7
37.5°	2201.1	2146.9	2211.0	2373.7	2444.4	2480.6
40°	2079.5	2018.7	2091.0	2257.0	2350.7	2393.5
42.5°	1954.5	1878.9	1967.7	2146.9	2248.8	2291.5
45°	1814.8	1709.6	1829.6	2030.2	2137.0	2184.7
47.5°	1675.1	1569.9	1691.5	1905.2	2020.3	2063.0
50°	1540.3	1449.9	1546.9	1768.8	1901.9	1956.2
52.5°	1417.0	1343.0	1425.2	1635.6	1780.3	1834.5
55°	1301.9	1244.4	1311.8	1504.1	1652.1	1714.5
57.5°	1193.4	1157.3	1203.3	1379.2	1533.7	1592.9
60°	1091.5	1066.9	1099.7	1255.9	1394.0	1466.3
62.5°	991.2	978.1	1002.8	1126.0	1264.1	1339.7
65°	894.3	891.0	904.1	1012.6	1127.7	1209.9
67.5°	797.3	795.6	803.8	892.6	994.5	1075.1
70°	700.3	710.1	705.2	762.7	861.4	940.3
72.5°	601.7	616.4	608.2	644.4	739.7	802.2
75°	491.5	511.2	494.8	535.9	595.1	662.5
77.5°	378.1	399.5	379.7	415.9	480.0	527.7
80°	271.2	291.0	274.5	302.5	358.4	394.5
82.5°	171.0	185.8	172.6	200.6	256.4	282.7
85°	75.6	83.8	87.1	108.5	157.8	187.4
87.5°	3.3	1.6	3.3	21.4	55.9	82.2
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)