

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: P520627

Luminaire Tested: **8WSLA-100-L830-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520627
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-L830-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

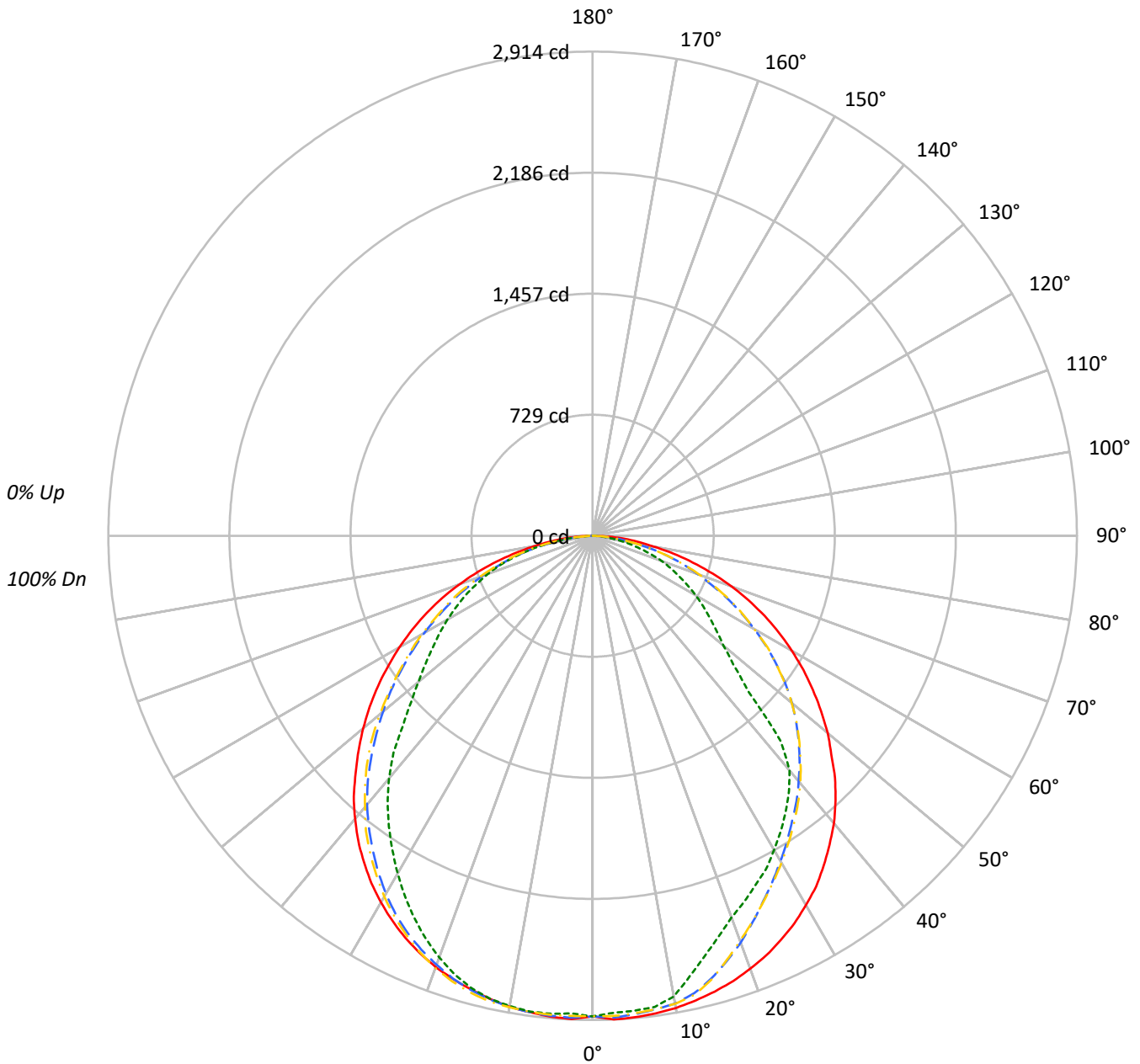
Lumens per Lamp: N/A
Luminaire Lumens: 7759.0 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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°	7783	7783	7783	7783
5°	7859	7750	7846	7800
10°	7886	7691	7865	7852
15°	7911	7284	7876	7850
20°	7940	6999	7909	7732
25°	7966	6883	7924	7537
30°	7975	6784	7917	7290
35°	7962	6652	7881	7019
40°	7936	6476	7811	6693
45°	7848	5031	7671	6141
50°	7730	4307	7542	5730
55°	7593	4033	7396	5511
60°	7449	3850	7224	5420
65°	7272	3646	7025	5355
70°	6984	3467	6690	5274
75°	6501	3049	6195	5018
80°	5771	2549	5410	4255
85°	5462	1822	4792	2442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	3.5
10°-20°	783.8	10.1
20°-30°	1171.3	15.1
30°-40°	1394.2	18.0
40°-50°	1393.6	18.0
50°-60°	1199.2	15.5
60°-70°	902.6	11.6
70°-80°	514.3	6.6
80°-90°	125.2	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°	2229.9	28.7
0°-40°	3624.1	46.7
0°-60°	6216.9	80.1
0°-90°	7759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7759.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2892	2892	2892	2892	2892	
5°	2909	2869	2905	2888	2909	277
15°	2840	2615	2827	2818	2840	802
25°	2683	2318	2669	2538	2683	1237
35°	2424	2025	2399	2137	2424	1517
45°	2062	1322	2016	1614	2062	1588
55°	1618	860	1576	1175	1618	1447
65°	1142	573	1103	841	1142	1128
75°	625	293	596	483	625	662
85°	177	59	155	79	177	193
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°	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3
2.5°	2914.0	2887.6	2903.2	2898.5	2873.7	2883.0	2892.3	2883.0	2910.9	2886.1	2903.2
5°	2909.4	2881.4	2890.7	2881.4	2869.0	2872.1	2886.1	2876.8	2904.7	2878.3	2900.1
7.5°	2900.1	2865.9	2875.2	2870.6	2859.7	2861.3	2875.2	2867.5	2892.3	2867.5	2892.3
10°	2886.1	2850.4	2858.2	2838.0	2814.7	2831.8	2859.7	2852.0	2878.3	2850.4	2878.3
12.5°	2864.4	2828.7	2820.9	2754.2	2712.3	2744.9	2830.2	2830.2	2855.1	2828.7	2858.2
15°	2839.5	2800.8	2758.9	2658.0	2614.6	2647.1	2765.1	2805.4	2827.1	2800.8	2830.2
17.5°	2810.1	2765.1	2684.4	2566.4	2526.1	2558.7	2679.7	2768.2	2796.1	2768.2	2794.5
20°	2772.8	2720.1	2605.2	2470.2	2443.9	2473.3	2594.4	2723.2	2762.0	2727.8	2746.4
22.5°	2732.5	2668.9	2516.8	2395.8	2383.4	2402.0	2512.1	2667.3	2718.5	2682.8	2695.2
25°	2682.8	2608.3	2428.4	2327.5	2318.2	2329.0	2431.5	2602.1	2668.9	2631.6	2636.3
27.5°	2630.1	2549.4	2344.6	2270.1	2260.8	2265.4	2350.8	2529.2	2611.4	2574.2	2566.4
30°	2566.4	2479.6	2260.8	2192.5	2183.2	2200.3	2273.2	2454.7	2547.8	2510.6	2487.3
32.5°	2502.8	2403.5	2178.5	2125.8	2107.2	2122.7	2192.5	2377.1	2478.0	2439.2	2400.4
35°	2423.7	2322.8	2093.2	2040.4	2024.9	2042.0	2111.8	2296.5	2398.9	2360.1	2307.3
37.5°	2341.5	2237.5	2015.6	1967.5	1939.6	1959.7	2029.6	2212.7	2316.6	2276.3	2211.1
40°	2259.2	2147.5	1928.7	1879.1	1843.4	1872.9	1944.2	2124.2	2223.5	2186.3	2111.8
42.5°	2163.0	2057.5	1843.4	1773.6	1672.7	1767.3	1852.7	2035.8	2127.3	2091.6	2001.6
45°	2062.2	1961.3	1753.4	1584.2	1322.0	1599.8	1759.6	1942.7	2015.6	1981.5	1883.7
47.5°	1947.3	1862.0	1661.8	1404.3	1149.8	1419.8	1664.9	1854.2	1910.1	1872.9	1764.2
50°	1846.5	1762.7	1565.6	1252.2	1028.8	1269.3	1564.1	1754.9	1801.5	1767.3	1646.3
52.5°	1731.7	1658.7	1461.7	1117.2	938.8	1134.3	1458.6	1652.5	1689.8	1649.4	1528.4
55°	1618.4	1553.2	1351.5	997.7	859.6	1013.2	1348.4	1547.0	1576.5	1529.9	1404.3
57.5°	1503.6	1444.6	1238.2	890.7	786.7	907.7	1246.0	1438.4	1458.6	1399.6	1284.8
60°	1384.1	1334.4	1123.4	796.0	715.3	810.0	1120.3	1329.8	1342.2	1278.6	1168.4
62.5°	1264.6	1219.6	1008.6	709.1	642.4	718.4	1016.3	1215.0	1222.7	1162.2	1048.9
65°	1142.0	1100.1	896.9	617.6	572.6	633.1	904.6	1095.5	1103.2	1035.0	932.5
67.5°	1014.8	980.7	777.4	547.7	505.8	552.4	792.9	974.4	979.1	912.4	819.3
70°	887.6	858.1	671.9	471.7	440.7	473.3	682.7	841.0	850.3	778.9	704.5
72.5°	757.2	733.9	569.5	392.6	364.6	392.6	575.7	718.4	724.6	665.7	592.7
75°	625.3	608.3	465.5	315.0	293.3	313.4	468.6	595.8	595.8	540.0	482.6
77.5°	498.1	485.7	356.9	242.1	226.5	239.0	358.4	471.7	468.6	425.2	380.2
80°	372.4	363.1	256.0	175.3	164.5	170.7	256.0	349.1	349.1	318.1	263.8
82.5°	266.9	256.0	169.1	114.8	108.6	111.7	166.0	243.6	248.3	225.0	178.4
85°	176.9	152.1	91.5	63.6	59.0	60.5	86.9	141.2	155.2	130.3	93.1
87.5°	77.6	51.2	23.3	9.3	4.7	6.2	18.6	45.0	59.0	38.8	12.4
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°	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3
2.5°	2901.6	2876.8	2886.1	2892.3	2886.1	2914.0
5°	2898.5	2887.6	2886.1	2893.9	2881.4	2909.4
7.5°	2893.9	2887.6	2886.1	2889.2	2873.7	2900.1
10°	2883.0	2873.7	2876.8	2881.4	2861.3	2886.1
12.5°	2862.8	2853.5	2855.1	2870.6	2842.6	2864.4
15°	2828.7	2817.8	2828.7	2845.7	2820.9	2839.5
17.5°	2783.7	2766.6	2785.2	2811.6	2793.0	2810.1
20°	2726.3	2699.9	2720.1	2768.2	2751.1	2772.8
22.5°	2656.4	2623.9	2644.0	2713.9	2709.2	2732.5
25°	2577.3	2538.5	2566.4	2651.8	2661.1	2682.8
27.5°	2488.9	2445.4	2482.7	2583.5	2605.2	2630.1
30°	2392.7	2346.1	2389.6	2507.5	2540.1	2566.4
32.5°	2293.4	2242.2	2291.8	2422.1	2468.7	2502.8
35°	2189.4	2136.6	2192.5	2333.7	2389.6	2423.7
37.5°	2077.7	2026.5	2087.0	2240.6	2307.3	2341.5
40°	1962.9	1905.4	1973.7	2130.4	2218.9	2259.2
42.5°	1844.9	1773.6	1857.3	2026.5	2122.7	2163.0
45°	1713.0	1613.7	1727.0	1916.3	2017.2	2062.2
47.5°	1581.1	1481.8	1596.7	1798.4	1907.0	1947.3
50°	1453.9	1368.6	1460.1	1669.6	1795.3	1846.5
52.5°	1337.5	1267.7	1345.3	1543.9	1680.5	1731.7
55°	1228.9	1174.6	1238.2	1419.8	1559.4	1618.4
57.5°	1126.5	1092.4	1135.8	1301.8	1447.7	1503.6
60°	1030.3	1007.0	1038.1	1185.5	1315.8	1384.1
62.5°	935.7	923.2	946.5	1062.9	1193.2	1264.6
65°	844.1	841.0	853.4	955.8	1064.4	1142.0
67.5°	752.6	751.0	758.8	842.6	938.8	1014.8
70°	661.0	670.3	665.7	720.0	813.1	887.6
72.5°	567.9	581.9	574.1	608.3	698.2	757.2
75°	463.9	482.6	467.1	505.8	561.7	625.3
77.5°	356.9	377.1	358.4	392.6	453.1	498.1
80°	256.0	274.6	259.1	285.5	338.3	372.4
82.5°	161.4	175.3	162.9	189.3	242.1	266.9
85°	71.4	79.1	82.2	102.4	149.0	176.9
87.5°	3.1	1.6	3.1	20.2	52.8	77.6
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)