

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: FAIL-SAFE

Report Number: P520663

Luminaire Tested: **8WSLA-125-L930-UNV-U**

Issue Date: 5/3/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P520663  
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: FAIL-SAFE  
Catalog Number: 8WSLA-125-L930-UNV-U  
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

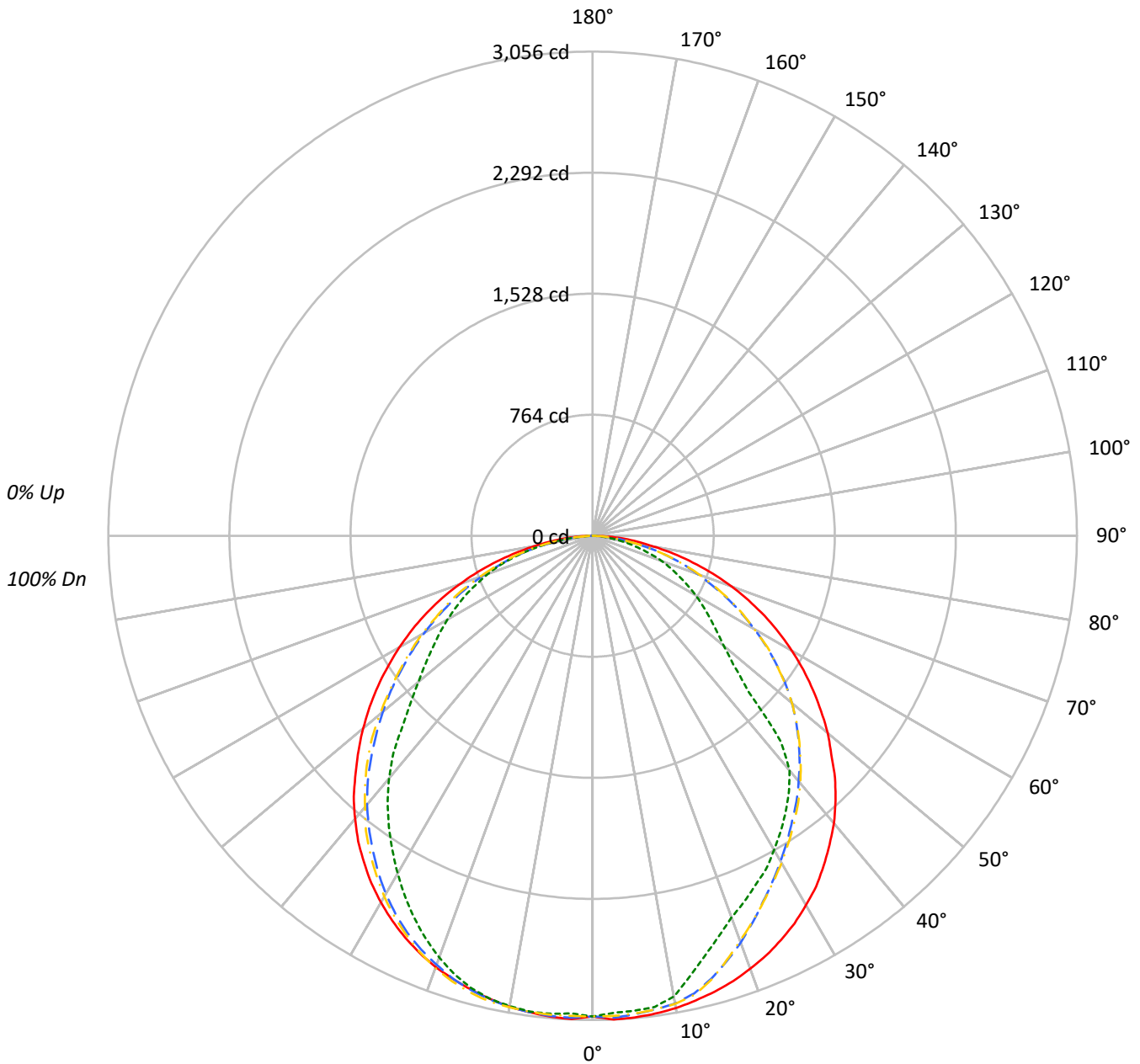
Lumens per Lamp: N/A  
Luminaire Lumens: 8138.0 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 78.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P520663

CATALOG NUMBER: 8WSLA-125-L930-UNV-U

### Luminous Intensity Polar Plot





TEST NUMBER: P520663

CATALOG NUMBER: 8WSLA-125-L930-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°	8163	8163	8163	8163
5°	8243	8129	8230	8181
10°	8272	8067	8249	8236
15°	8297	7640	8261	8234
20°	8328	7340	8296	8109
25°	8355	7219	8311	7905
30°	8364	7115	8304	7646
35°	8351	6977	8265	7362
40°	8324	6792	8192	7020
45°	8231	5277	8045	6441
50°	8108	4517	7910	6009
55°	7963	4230	7758	5780
60°	7813	4038	7576	5684
65°	7627	3824	7368	5617
70°	7324	3637	7017	5532
75°	6819	3198	6497	5262
80°	6053	2673	5675	4465
85°	5727	1908	5023	2563



TEST NUMBER: P520663

CATALOG NUMBER: 8WSLA-125-L930-UNV-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.2	3.5
10°-20°	822.1	10.1
20°-30°	1228.5	15.1
30°-40°	1462.3	18.0
40°-50°	1461.7	18.0
50°-60°	1257.7	15.5
60°-70°	946.7	11.6
70°-80°	539.4	6.6
80°-90°	131.3	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°	2338.8	28.7
0°-40°	3801.2	46.7
0°-60°	6520.6	80.1
0°-90°	8138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8138.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3034	3034	3034	3034	3034	
5°	3052	3009	3047	3029	3052	290
15°	2978	2742	2965	2956	2978	841
25°	2814	2431	2799	2662	2814	1298
35°	2542	2124	2516	2241	2542	1591
45°	2163	1387	2114	1693	2163	1666
55°	1697	902	1654	1232	1697	1518
65°	1198	600	1157	882	1198	1183
75°	656	308	625	506	656	694
85°	186	62	163	83	186	202
90°	0	0	0	0	0	



TEST NUMBER: P520663

CATALOG NUMBER: 8WSLA-125-L930-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6
2.5°	3056.4	3028.7	3045.0	3040.1	3014.0	3023.8	3033.6	3023.8	3053.1	3027.1	3045.0
5°	3051.5	3022.2	3032.0	3022.2	3009.2	3012.4	3027.1	3017.3	3046.6	3018.9	3041.7
7.5°	3041.7	3005.9	3015.7	3010.8	2999.4	3001.0	3015.7	3007.5	3033.6	3007.5	3033.6
10°	3027.1	2989.6	2997.8	2976.6	2952.2	2970.1	2999.4	2991.3	3018.9	2989.6	3018.9
12.5°	3004.3	2966.9	2958.7	2888.7	2844.8	2879.0	2968.5	2968.5	2994.5	2966.9	2997.8
15°	2978.2	2937.6	2893.6	2787.8	2742.3	2776.4	2900.1	2942.4	2965.2	2937.6	2968.5
17.5°	2947.3	2900.1	2815.5	2691.8	2649.5	2683.7	2810.6	2903.4	2932.7	2903.4	2931.0
20°	2908.3	2852.9	2732.5	2590.9	2563.2	2594.2	2721.1	2856.2	2896.9	2861.1	2880.6
22.5°	2865.9	2799.2	2639.7	2512.8	2499.8	2519.3	2634.9	2797.6	2851.3	2813.9	2826.9
25°	2813.9	2735.8	2547.0	2441.2	2431.4	2442.8	2550.2	2729.2	2799.2	2760.2	2765.0
27.5°	2758.5	2673.9	2459.1	2381.0	2371.2	2376.1	2465.6	2652.8	2739.0	2699.9	2691.8
30°	2691.8	2600.7	2371.2	2299.6	2289.8	2307.7	2384.2	2574.6	2672.3	2633.2	2608.8
32.5°	2625.1	2520.9	2284.9	2229.6	2210.1	2226.4	2299.6	2493.3	2599.0	2558.4	2517.7
35°	2542.1	2436.3	2195.4	2140.1	2123.8	2141.7	2215.0	2408.6	2516.0	2475.4	2420.0
37.5°	2455.8	2346.8	2114.1	2063.6	2034.3	2055.5	2128.7	2320.8	2429.8	2387.5	2319.1
40°	2369.6	2252.4	2022.9	1970.8	1933.4	1964.3	2039.2	2228.0	2332.1	2293.1	2215.0
42.5°	2268.7	2158.0	1933.4	1860.2	1754.4	1853.7	1943.2	2135.2	2231.2	2193.8	2099.4
45°	2162.9	2057.1	1839.0	1661.6	1386.6	1677.9	1845.5	2037.6	2114.1	2078.3	1975.7
47.5°	2042.5	1952.9	1743.0	1472.8	1205.9	1489.1	1746.3	1944.8	2003.4	1964.3	1850.4
50°	1936.7	1848.8	1642.1	1313.4	1079.0	1331.3	1640.5	1840.7	1889.5	1853.7	1726.7
52.5°	1816.2	1739.8	1533.1	1171.8	984.6	1189.7	1529.8	1733.2	1772.3	1730.0	1603.0
55°	1697.4	1629.1	1417.5	1046.5	901.6	1062.7	1414.3	1622.6	1653.5	1604.7	1472.8
57.5°	1577.0	1515.2	1298.7	934.2	825.1	952.1	1306.8	1508.7	1529.8	1468.0	1347.5
60°	1451.7	1399.6	1178.3	834.9	750.3	849.5	1175.0	1394.7	1407.7	1341.0	1225.5
62.5°	1326.4	1279.2	1057.8	743.7	673.8	753.5	1066.0	1274.3	1282.4	1219.0	1100.2
65°	1197.8	1153.9	940.7	647.7	600.5	664.0	948.8	1149.0	1157.1	1085.5	978.1
67.5°	1064.4	1028.6	815.4	574.5	530.6	579.4	831.6	1022.0	1026.9	956.9	859.3
70°	930.9	900.0	704.7	494.7	462.2	496.4	716.1	882.1	891.8	817.0	738.9
72.5°	794.2	769.8	597.3	411.7	382.5	411.7	603.8	753.5	760.0	698.2	621.7
75°	655.9	638.0	488.2	330.4	307.6	328.7	491.5	624.9	624.9	566.4	506.1
77.5°	522.4	509.4	374.3	253.9	237.6	250.6	375.9	494.7	491.5	445.9	398.7
80°	390.6	380.8	268.5	183.9	172.5	179.0	268.5	366.2	366.2	333.6	276.7
82.5°	279.9	268.5	177.4	120.4	113.9	117.2	174.1	255.5	260.4	236.0	187.2
85°	185.5	159.5	96.0	66.7	61.8	63.5	91.1	148.1	162.7	136.7	97.6
87.5°	81.4	53.7	24.4	9.8	4.9	6.5	19.5	47.2	61.8	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



TEST NUMBER: P520663

CATALOG NUMBER: 8WSLA-125-L930-UNV-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6
2.5°	3043.3	3017.3	3027.1	3033.6	3027.1	3056.4
5°	3040.1	3028.7	3027.1	3035.2	3022.2	3051.5
7.5°	3035.2	3028.7	3027.1	3030.3	3014.0	3041.7
10°	3023.8	3014.0	3017.3	3022.2	3001.0	3027.1
12.5°	3002.7	2992.9	2994.5	3010.8	2981.5	3004.3
15°	2966.9	2955.5	2966.9	2984.8	2958.7	2978.2
17.5°	2919.7	2901.8	2921.3	2948.9	2929.4	2947.3
20°	2859.4	2831.8	2852.9	2903.4	2885.5	2908.3
22.5°	2786.2	2752.0	2773.2	2846.4	2841.5	2865.9
25°	2703.2	2662.5	2691.8	2781.3	2791.1	2813.9
27.5°	2610.4	2564.9	2603.9	2709.7	2732.5	2758.5
30°	2509.5	2460.7	2506.3	2630.0	2664.1	2691.8
32.5°	2405.4	2351.7	2403.8	2540.5	2589.3	2625.1
35°	2296.3	2241.0	2299.6	2447.7	2506.3	2542.1
37.5°	2179.2	2125.5	2188.9	2350.0	2420.0	2455.8
40°	2058.7	1998.5	2070.1	2234.5	2327.3	2369.6
42.5°	1935.0	1860.2	1948.1	2125.5	2226.4	2268.7
45°	1796.7	1692.6	1811.4	2009.9	2115.7	2162.9
47.5°	1658.4	1554.2	1674.7	1886.2	2000.1	2042.5
50°	1524.9	1435.4	1531.4	1751.1	1883.0	1936.7
52.5°	1402.9	1329.6	1411.0	1619.3	1762.5	1816.2
55°	1288.9	1232.0	1298.7	1489.1	1635.6	1697.4
57.5°	1181.5	1145.7	1191.3	1365.4	1518.4	1577.0
60°	1080.6	1056.2	1088.8	1243.4	1380.1	1451.7
62.5°	981.4	968.3	992.7	1114.8	1251.5	1326.4
65°	885.3	882.1	895.1	1002.5	1116.4	1197.8
67.5°	789.3	787.7	795.8	883.7	984.6	1064.4
70°	693.3	703.1	698.2	755.1	852.8	930.9
72.5°	595.6	610.3	602.2	638.0	732.4	794.2
75°	486.6	506.1	489.9	530.6	589.1	655.9
77.5°	374.3	395.5	375.9	411.7	475.2	522.4
80°	268.5	288.1	271.8	299.5	354.8	390.6
82.5°	169.3	183.9	170.9	198.5	253.9	279.9
85°	74.9	83.0	86.3	107.4	156.2	185.5
87.5°	3.3	1.6	3.3	21.2	55.3	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)