

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: P520666

Luminaire Tested: **8WSLA-125-L935-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: P520666
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-L935-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

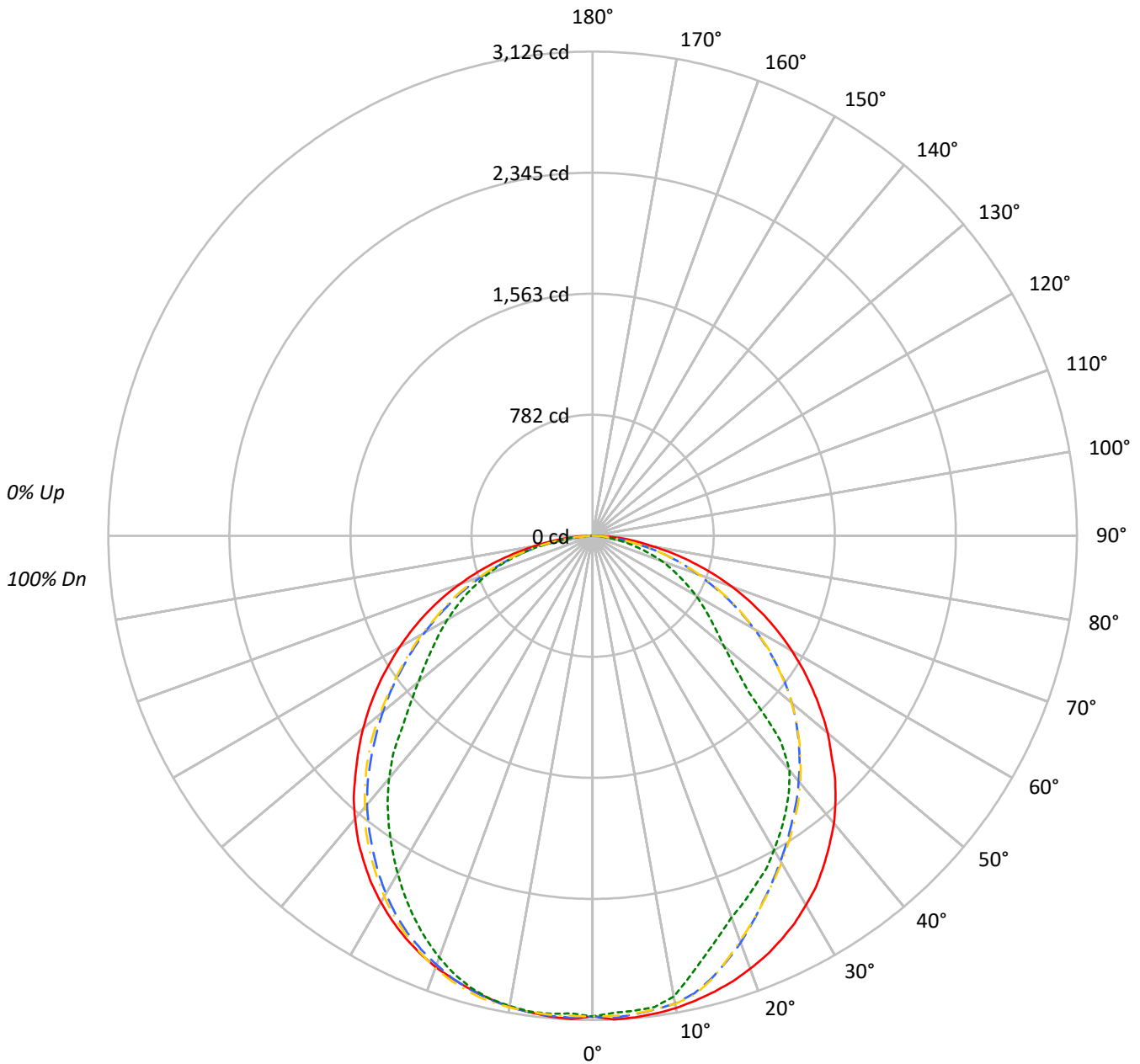
Lumens per Lamp: N/A
Luminaire Lumens: 8324.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 78.2
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°	8350	8350	8350	8350
5°	8431	8314	8418	8368
10°	8461	8251	8438	8424
15°	8487	7814	8450	8422
20°	8519	7508	8485	8295
25°	8546	7384	8501	8086
30°	8555	7278	8493	7821
35°	8542	7137	8454	7530
40°	8514	6947	8379	7181
45°	8419	5398	8229	6588
50°	8293	4621	8091	6147
55°	8146	4327	7935	5912
60°	7992	4130	7749	5815
65°	7801	3911	7536	5745
70°	7492	3720	7177	5658
75°	6975	3271	6646	5383
80°	6191	2735	5804	4565
85°	5860	1954	5141	2621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.8	3.5
10°-20°	840.9	10.1
20°-30°	1256.6	15.1
30°-40°	1495.7	18.0
40°-50°	1495.1	18.0
50°-60°	1286.5	15.5
60°-70°	968.3	11.6
70°-80°	551.8	6.6
80°-90°	134.3	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°	2392.3	28.7
0°-40°	3888.0	46.7
0°-60°	6669.6	80.1
0°-90°	8324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8324.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3103	3103	3103	3103	3103	
5°	3121	3078	3116	3098	3121	297
15°	3046	2805	3033	3023	3046	861
25°	2878	2487	2863	2723	2878	1327
35°	2600	2172	2574	2292	2600	1627
45°	2212	1418	2162	1731	2212	1704
55°	1736	922	1691	1260	1736	1552
65°	1225	614	1184	902	1225	1210
75°	671	315	639	518	671	710
85°	190	63	166	85	190	207
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°	3102.9	3102.9	3102.9	3102.9	3102.9	3102.9	3102.9	3102.9	3102.9	3102.9	3102.9
2.5°	3126.2	3097.9	3114.6	3109.6	3082.9	3092.9	3102.9	3092.9	3122.9	3096.3	3114.6
5°	3121.2	3091.3	3101.2	3091.3	3077.9	3081.3	3096.3	3086.3	3116.2	3087.9	3111.2
7.5°	3111.2	3074.6	3084.6	3079.6	3068.0	3069.6	3084.6	3076.3	3102.9	3076.3	3102.9
10°	3096.3	3058.0	3066.3	3044.6	3019.7	3038.0	3068.0	3059.6	3087.9	3058.0	3087.9
12.5°	3072.9	3034.7	3026.3	2954.8	2909.8	2944.8	3036.3	3036.3	3063.0	3034.7	3066.3
15°	3046.3	3004.7	2959.8	2851.5	2804.9	2839.9	2966.4	3009.7	3033.0	3004.7	3036.3
17.5°	3014.7	2966.4	2879.8	2753.3	2710.1	2745.0	2874.9	2969.7	2999.7	2969.7	2998.0
20°	2974.7	2918.1	2795.0	2650.1	2621.8	2653.5	2783.3	2921.5	2963.1	2926.5	2946.4
22.5°	2931.5	2863.2	2700.1	2570.2	2556.9	2576.9	2695.1	2861.5	2916.5	2878.2	2891.5
25°	2878.2	2798.3	2605.2	2497.0	2487.0	2498.6	2608.5	2791.6	2863.2	2823.3	2828.2
27.5°	2821.6	2735.0	2515.3	2435.4	2425.4	2430.4	2521.9	2713.4	2801.6	2761.7	2753.3
30°	2753.3	2660.1	2425.4	2352.2	2342.2	2360.5	2438.7	2633.5	2733.4	2693.4	2668.4
32.5°	2685.1	2578.5	2337.2	2280.6	2260.6	2277.2	2352.2	2550.2	2658.4	2616.8	2575.2
35°	2600.2	2492.0	2245.6	2189.0	2172.4	2190.7	2265.6	2463.7	2573.6	2531.9	2475.3
37.5°	2512.0	2400.4	2162.4	2110.8	2080.8	2102.5	2177.4	2373.8	2485.3	2442.0	2372.1
40°	2423.7	2303.9	2069.2	2015.9	1977.6	2009.2	2085.8	2278.9	2385.4	2345.5	2265.6
42.5°	2320.5	2207.3	1977.6	1902.7	1794.5	1896.0	1987.6	2184.0	2282.2	2244.0	2147.4
45°	2212.3	2104.1	1881.1	1699.6	1418.3	1716.3	1887.7	2084.1	2162.4	2125.8	2020.9
47.5°	2089.1	1997.6	1782.8	1506.5	1233.5	1523.2	1786.2	1989.3	2049.2	2009.2	1892.7
50°	1980.9	1891.0	1679.6	1343.4	1103.7	1361.7	1678.0	1882.7	1932.7	1896.0	1766.2
52.5°	1857.8	1779.5	1568.1	1198.5	1007.1	1216.9	1564.8	1772.9	1812.8	1769.5	1639.7
55°	1736.2	1666.3	1449.9	1070.4	922.2	1087.0	1446.6	1659.7	1691.3	1641.3	1506.5
57.5°	1613.0	1549.8	1328.4	955.5	844.0	973.8	1336.7	1543.1	1564.8	1501.5	1378.3
60°	1484.9	1431.6	1205.2	854.0	767.4	868.9	1201.9	1426.6	1439.9	1371.7	1253.5
62.5°	1356.7	1308.4	1082.0	760.7	689.2	770.7	1090.3	1303.4	1311.7	1246.8	1125.3
65°	1225.2	1180.2	962.2	662.5	614.3	679.2	970.5	1175.2	1183.6	1110.3	1000.5
67.5°	1088.7	1052.1	834.0	587.6	542.7	592.6	850.6	1045.4	1050.4	978.8	878.9
70°	952.2	920.6	720.8	506.1	472.8	507.7	732.4	902.2	912.2	835.7	755.8
72.5°	812.4	787.4	610.9	421.2	391.2	421.2	617.6	770.7	777.4	714.1	635.9
75°	670.9	652.5	499.4	337.9	314.6	336.3	502.7	639.2	639.2	579.3	517.7
77.5°	534.4	521.0	382.9	259.7	243.0	256.4	384.5	506.1	502.7	456.1	407.8
80°	399.5	389.5	274.7	188.1	176.5	183.1	274.7	374.5	374.5	341.3	283.0
82.5°	286.3	274.7	181.4	123.2	116.5	119.9	178.1	261.4	266.3	241.4	191.4
85°	189.8	163.1	98.2	68.3	63.3	64.9	93.2	151.5	166.5	139.8	99.9
87.5°	83.2	54.9	25.0	10.0	5.0	6.7	20.0	48.3	63.3	41.6	13.3
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°	3102.9	3102.9	3102.9	3102.9	3102.9	3102.9
2.5°	3112.9	3086.3	3096.3	3102.9	3096.3	3126.2
5°	3109.6	3097.9	3096.3	3104.6	3091.3	3121.2
7.5°	3104.6	3097.9	3096.3	3099.6	3082.9	3111.2
10°	3092.9	3082.9	3086.3	3091.3	3069.6	3096.3
12.5°	3071.3	3061.3	3063.0	3079.6	3049.6	3072.9
15°	3034.7	3023.0	3034.7	3053.0	3026.3	3046.3
17.5°	2986.4	2968.1	2988.1	3016.4	2996.4	3014.7
20°	2924.8	2896.5	2918.1	2969.7	2951.4	2974.7
22.5°	2849.9	2814.9	2836.6	2911.5	2906.5	2931.5
25°	2765.0	2723.4	2753.3	2844.9	2854.9	2878.2
27.5°	2670.1	2623.5	2663.4	2771.6	2795.0	2821.6
30°	2566.9	2517.0	2563.6	2690.1	2725.0	2753.3
32.5°	2460.4	2405.4	2458.7	2598.5	2648.5	2685.1
35°	2348.8	2292.2	2352.2	2503.6	2563.6	2600.2
37.5°	2229.0	2174.0	2239.0	2403.8	2475.3	2512.0
40°	2105.8	2044.2	2117.4	2285.6	2380.5	2423.7
42.5°	1979.3	1902.7	1992.6	2174.0	2277.2	2320.5
45°	1837.8	1731.2	1852.8	2055.8	2164.0	2212.3
47.5°	1696.3	1589.7	1712.9	1929.3	2045.9	2089.1
50°	1559.8	1468.2	1566.4	1791.2	1926.0	1980.9
52.5°	1434.9	1360.0	1443.3	1656.3	1802.8	1857.8
55°	1318.4	1260.1	1328.4	1523.2	1673.0	1736.2
57.5°	1208.5	1171.9	1218.5	1396.6	1553.1	1613.0
60°	1105.3	1080.4	1113.7	1271.8	1411.6	1484.9
62.5°	1003.8	990.5	1015.4	1140.3	1280.1	1356.7
65°	905.6	902.2	915.6	1025.4	1142.0	1225.2
67.5°	807.4	805.7	814.0	903.9	1007.1	1088.7
70°	709.1	719.1	714.1	772.4	872.3	952.2
72.5°	609.3	624.2	615.9	652.5	749.1	812.4
75°	497.7	517.7	501.1	542.7	602.6	670.9
77.5°	382.9	404.5	384.5	421.2	486.1	534.4
80°	274.7	294.6	278.0	306.3	362.9	399.5
82.5°	173.1	188.1	174.8	203.1	259.7	286.3
85°	76.6	84.9	88.2	109.9	159.8	189.8
87.5°	3.3	1.7	3.3	21.6	56.6	83.2
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)