

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: P520669

Luminaire Tested: **8WSLA-125-L940-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: P520669
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-L940-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

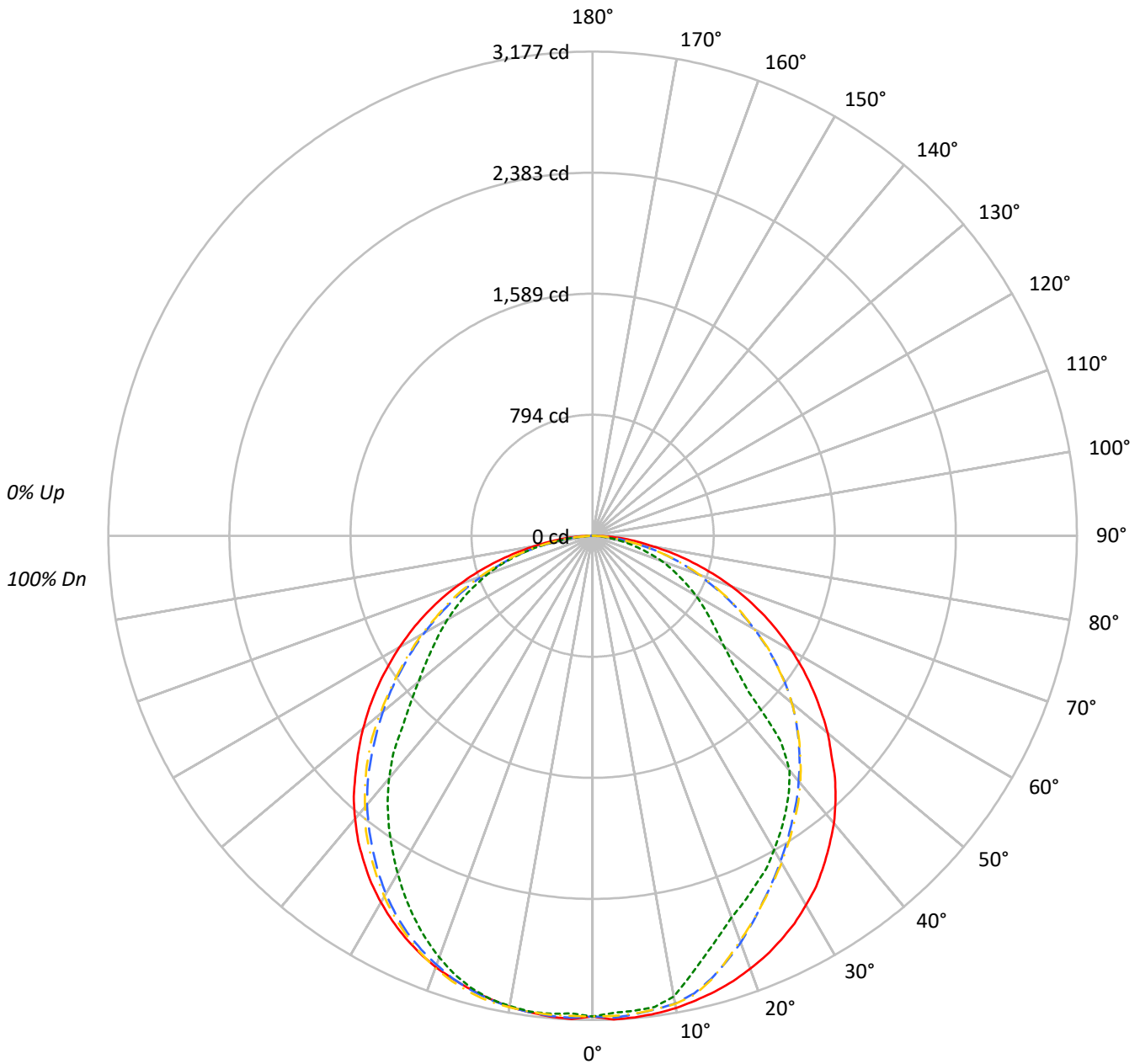
Lumens per Lamp: N/A
Luminaire Lumens: 8460.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 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				20				20	
RC	80				70				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				100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84				84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70				70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60				60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51				51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44				44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39				39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34				34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28				28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8486	8486	8486	8486
5°	8569	8450	8555	8505
10°	8599	8386	8576	8562
15°	8625	7942	8588	8559
20°	8658	7631	8624	8430
25°	8685	7505	8640	8218
30°	8695	7397	8632	7949
35°	8681	7253	8592	7653
40°	8653	7060	8516	7298
45°	8557	5486	8364	6696
50°	8429	4696	8223	6247
55°	8279	4397	8064	6009
60°	8122	4197	7876	5909
65°	7929	3975	7659	5839
70°	7614	3781	7294	5751
75°	7089	3325	6755	5471
80°	6292	2779	5900	4641
85°	5956	1985	5224	2665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.7	3.5
10°-20°	854.6	10.1
20°-30°	1277.1	15.1
30°-40°	1520.2	18.0
40°-50°	1519.5	18.0
50°-60°	1307.5	15.5
60°-70°	984.1	11.6
70°-80°	560.8	6.6
80°-90°	136.5	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°	2431.4	28.7
0°-40°	3951.6	46.7
0°-60°	6778.6	80.1
0°-90°	8460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8460.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3154	3154	3154	3154	3154	
5°	3172	3128	3167	3148	3172	302
15°	3096	2851	3083	3072	3096	875
25°	2925	2528	2910	2768	2925	1349
35°	2643	2208	2616	2330	2643	1654
45°	2248	1442	2198	1760	2248	1732
55°	1765	937	1719	1281	1765	1578
65°	1245	624	1203	917	1245	1230
75°	682	320	650	526	682	722
85°	193	64	169	86	193	210
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°	3153.6	3153.6	3153.6	3153.6	3153.6	3153.6	3153.6	3153.6	3153.6	3153.6	3153.6
2.5°	3177.3	3148.5	3165.5	3160.4	3133.3	3143.5	3153.6	3143.5	3173.9	3146.8	3165.5
5°	3172.2	3141.8	3151.9	3141.8	3128.2	3131.6	3146.8	3136.7	3167.1	3138.4	3162.1
7.5°	3162.1	3124.8	3135.0	3129.9	3118.1	3119.8	3135.0	3126.5	3153.6	3126.5	3153.6
10°	3146.8	3107.9	3116.4	3094.4	3069.0	3087.6	3118.1	3109.6	3138.4	3107.9	3138.4
12.5°	3123.2	3084.2	3075.8	3003.0	2957.4	2992.9	3085.9	3085.9	3113.0	3084.2	3116.4
15°	3096.1	3053.8	3008.1	2898.1	2850.8	2886.3	3014.9	3058.9	3082.6	3053.8	3085.9
17.5°	3063.9	3014.9	2926.9	2798.3	2754.3	2789.9	2921.8	3018.3	3048.7	3018.3	3047.0
20°	3023.3	2965.8	2840.6	2693.4	2664.7	2696.8	2828.8	2969.2	3011.5	2974.3	2994.6
22.5°	2979.3	2910.0	2744.2	2612.2	2598.7	2619.0	2739.1	2908.3	2964.1	2925.2	2938.7
25°	2925.2	2844.0	2647.7	2537.8	2527.6	2539.5	2651.1	2837.2	2910.0	2869.4	2874.5
27.5°	2867.7	2779.7	2556.4	2475.2	2465.0	2470.1	2563.2	2757.7	2847.4	2806.8	2798.3
30°	2798.3	2703.6	2465.0	2390.6	2380.4	2399.0	2478.6	2676.5	2778.0	2737.4	2712.0
32.5°	2729.0	2620.7	2375.4	2317.8	2297.5	2314.5	2390.6	2591.9	2701.9	2659.6	2617.3
35°	2642.7	2532.7	2282.3	2224.8	2207.9	2226.5	2302.6	2503.9	2615.6	2573.3	2515.8
37.5°	2553.0	2439.6	2197.7	2145.3	2114.8	2136.8	2212.9	2412.6	2525.9	2481.9	2410.9
40°	2463.3	2341.5	2103.0	2048.8	2009.9	2042.1	2119.9	2316.1	2424.4	2383.8	2302.6
42.5°	2358.4	2243.4	2009.9	1933.8	1823.8	1927.0	2020.1	2219.7	2319.5	2280.6	2182.5
45°	2248.5	2138.5	1911.8	1727.4	1441.5	1744.3	1918.6	2118.2	2197.7	2160.5	2053.9
47.5°	2123.3	2030.2	1812.0	1531.1	1253.7	1548.0	1815.4	2021.8	2082.7	2042.1	1923.6
50°	2013.3	1921.9	1707.1	1365.3	1121.7	1383.9	1705.4	1913.5	1964.2	1927.0	1795.1
52.5°	1888.1	1808.6	1593.7	1218.1	1023.6	1236.7	1590.3	1801.8	1842.4	1798.4	1666.5
55°	1764.6	1693.5	1473.6	1087.9	937.3	1104.8	1470.2	1686.8	1718.9	1668.2	1531.1
57.5°	1639.4	1575.1	1350.1	971.1	857.8	989.7	1358.6	1568.3	1590.3	1526.0	1400.9
60°	1509.1	1455.0	1224.9	867.9	779.9	883.1	1221.5	1449.9	1463.5	1394.1	1274.0
62.5°	1378.9	1329.8	1099.7	773.2	700.4	783.3	1108.2	1324.7	1333.2	1267.2	1143.7
65°	1245.2	1199.5	977.9	673.4	624.3	690.3	986.3	1194.4	1202.9	1128.5	1016.8
67.5°	1106.5	1069.2	847.6	597.2	551.5	602.3	864.5	1062.5	1067.6	994.8	893.3
70°	967.7	935.6	732.6	514.3	480.5	516.0	744.4	917.0	927.1	849.3	768.1
72.5°	825.6	800.2	620.9	428.0	397.6	428.0	627.7	783.3	790.1	725.8	646.3
75°	681.8	663.2	507.6	343.4	319.8	341.8	510.9	649.7	649.7	588.8	526.2
77.5°	543.1	529.5	389.1	263.9	247.0	260.5	390.8	514.3	510.9	463.6	414.5
80°	406.0	395.9	279.2	191.2	179.3	186.1	279.2	380.7	380.7	346.8	287.6
82.5°	291.0	279.2	184.4	125.2	118.4	121.8	181.0	265.6	270.7	245.3	194.6
85°	192.9	165.8	99.8	69.4	64.3	66.0	94.7	154.0	169.2	142.1	101.5
87.5°	84.6	55.8	25.4	10.2	5.1	6.8	20.3	49.1	64.3	42.3	13.5
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°	3153.6	3153.6	3153.6	3153.6	3153.6	3153.6
2.5°	3163.8	3136.7	3146.8	3153.6	3146.8	3177.3
5°	3160.4	3148.5	3146.8	3155.3	3141.8	3172.2
7.5°	3155.3	3148.5	3146.8	3150.2	3133.3	3162.1
10°	3143.5	3133.3	3136.7	3141.8	3119.8	3146.8
12.5°	3121.5	3111.3	3113.0	3129.9	3099.5	3123.2
15°	3084.2	3072.4	3084.2	3102.9	3075.8	3096.1
17.5°	3035.2	3016.6	3036.9	3065.6	3045.3	3063.9
20°	2972.6	2943.8	2965.8	3018.3	2999.7	3023.3
22.5°	2896.4	2860.9	2882.9	2959.0	2954.0	2979.3
25°	2810.2	2767.9	2798.3	2891.4	2901.5	2925.2
27.5°	2713.7	2666.4	2707.0	2816.9	2840.6	2867.7
30°	2608.8	2558.1	2605.4	2734.0	2769.6	2798.3
32.5°	2500.6	2444.7	2498.9	2641.0	2691.7	2729.0
35°	2387.2	2329.7	2390.6	2544.5	2605.4	2642.7
37.5°	2265.4	2209.6	2275.5	2443.0	2515.8	2553.0
40°	2140.2	2077.6	2152.0	2322.9	2419.3	2463.3
42.5°	2011.6	1933.8	2025.1	2209.6	2314.5	2358.4
45°	1867.8	1759.5	1883.0	2089.4	2199.4	2248.5
47.5°	1724.0	1615.7	1740.9	1960.9	2079.3	2123.3
50°	1585.3	1492.2	1592.0	1820.4	1957.5	2013.3
52.5°	1458.4	1382.2	1466.8	1683.4	1832.3	1888.1
55°	1339.9	1280.7	1350.1	1548.0	1700.3	1764.6
57.5°	1228.3	1191.1	1238.4	1419.5	1578.5	1639.4
60°	1123.4	1098.0	1131.8	1292.6	1434.7	1509.1
62.5°	1020.2	1006.7	1032.0	1158.9	1301.0	1378.9
65°	920.4	917.0	930.5	1042.2	1160.6	1245.2
67.5°	820.5	818.9	827.3	918.7	1023.6	1106.5
70°	720.7	730.9	725.8	785.0	886.5	967.7
72.5°	619.2	634.4	626.0	663.2	761.3	825.6
75°	505.9	526.2	509.2	551.5	612.4	681.8
77.5°	389.1	411.1	390.8	428.0	494.0	543.1
80°	279.2	299.5	282.5	311.3	368.8	406.0
82.5°	176.0	191.2	177.6	206.4	263.9	291.0
85°	77.8	86.3	89.7	111.7	162.4	192.9
87.5°	3.4	1.7	3.4	22.0	57.5	84.6
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)