

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: P520672

Luminaire Tested: **8WSLA-125-L950-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: P520672  
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-L950-UNV-U  
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

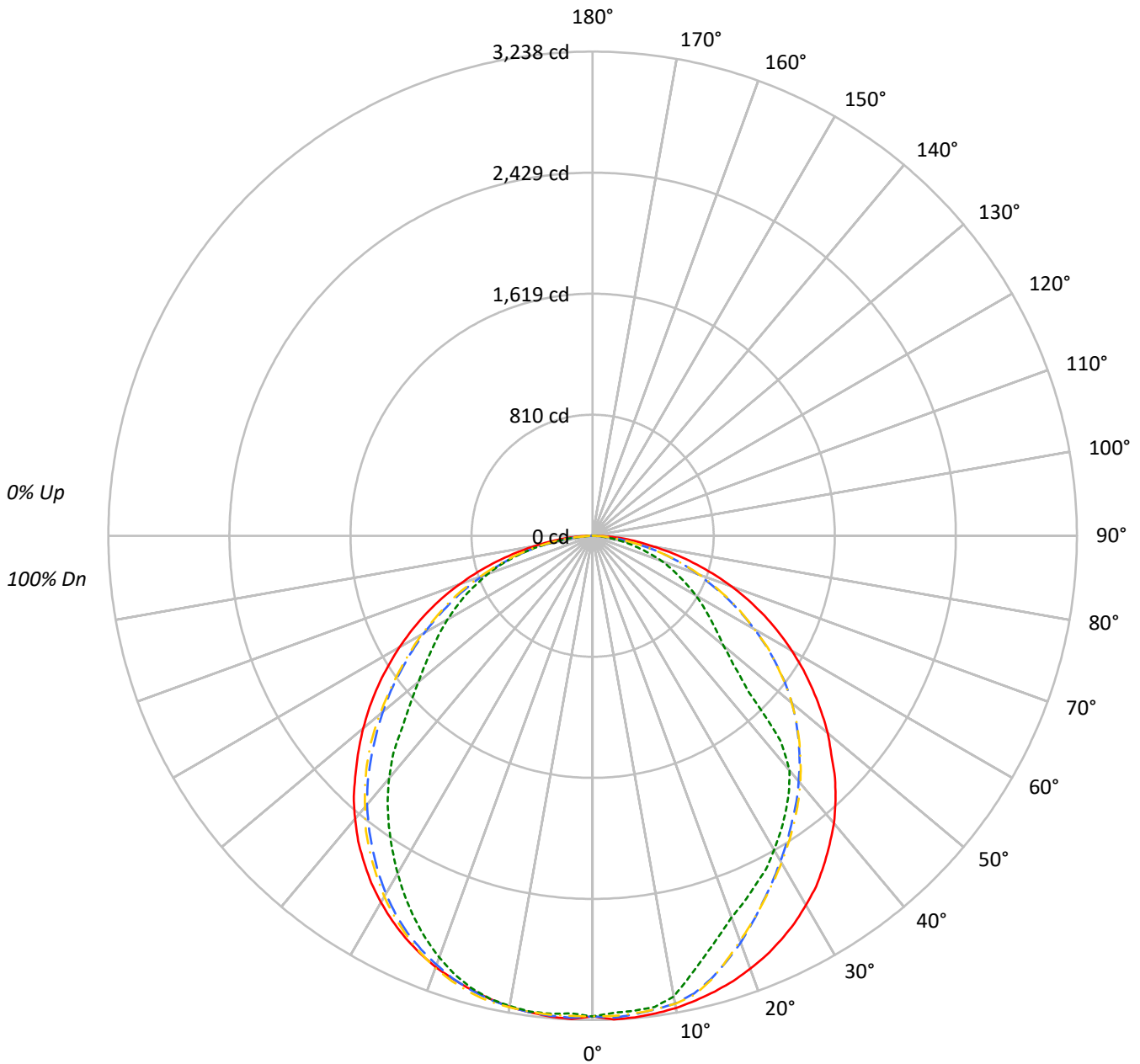
Lumens per Lamp: N/A  
Luminaire Lumens: 8622.0 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Direct

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

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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°	8649	8649	8649	8649
5°	8733	8612	8719	8668
10°	8763	8547	8740	8726
15°	8791	8094	8752	8723
20°	8824	7777	8789	8592
25°	8852	7649	8806	8376
30°	8862	7538	8797	8101
35°	8848	7392	8757	7800
40°	8819	7196	8679	7438
45°	8721	5591	8524	6824
50°	8590	4786	8381	6367
55°	8437	4481	8219	6124
60°	8277	4278	8027	6022
65°	8080	4051	7806	5950
70°	7760	3853	7434	5861
75°	7225	3388	6884	5575
80°	6413	2833	6013	4730
85°	6070	2022	5323	2714



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.4	3.5
10°-20°	871.0	10.1
20°-30°	1301.5	15.1
30°-40°	1549.3	18.0
40°-50°	1548.6	18.0
50°-60°	1332.6	15.5
60°-70°	1003.0	11.6
70°-80°	571.5	6.6
80°-90°	139.1	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°	2477.9	28.7
0°-40°	4027.2	46.7
0°-60°	6908.4	80.1
0°-90°	8622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8622.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3214	3214	3214	3214	3214	
5°	3233	3188	3228	3209	3233	308
15°	3155	2905	3142	3131	3155	891
25°	2981	2576	2966	2821	2981	1375
35°	2693	2250	2666	2374	2693	1685
45°	2292	1469	2240	1793	2292	1765
55°	1798	955	1752	1305	1798	1608
65°	1269	636	1226	934	1269	1253
75°	695	326	662	536	695	736
85°	197	66	172	88	197	214
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°	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0
2.5°	3238.1	3208.8	3226.1	3220.9	3193.3	3203.7	3214.0	3203.7	3234.7	3207.1	3226.1
5°	3233.0	3201.9	3212.3	3201.9	3188.1	3191.6	3207.1	3196.8	3227.8	3198.5	3222.6
7.5°	3222.6	3184.7	3195.0	3189.9	3177.8	3179.5	3195.0	3186.4	3214.0	3186.4	3214.0
10°	3207.1	3167.4	3176.1	3153.6	3127.8	3146.8	3177.8	3169.2	3198.5	3167.4	3198.5
12.5°	3183.0	3143.3	3134.7	3060.5	3014.0	3050.2	3145.0	3145.0	3172.6	3143.3	3176.1
15°	3155.4	3112.3	3065.7	2953.6	2905.4	2941.6	3072.6	3117.4	3141.6	3112.3	3145.0
17.5°	3122.6	3072.6	2982.9	2851.9	2807.1	2843.3	2977.8	3076.1	3107.1	3076.1	3105.4
20°	3081.2	3022.6	2895.0	2745.0	2715.7	2748.4	2882.9	3026.1	3069.2	3031.2	3051.9
22.5°	3036.4	2965.7	2796.7	2662.2	2648.4	2669.1	2791.6	2964.0	3020.9	2981.2	2995.0
25°	2981.2	2898.5	2698.4	2586.4	2576.0	2588.1	2701.9	2891.6	2965.7	2924.3	2929.5
27.5°	2922.6	2832.9	2605.3	2522.6	2512.2	2517.4	2612.2	2810.5	2901.9	2860.5	2851.9
30°	2851.9	2755.3	2512.2	2436.4	2426.0	2445.0	2526.0	2727.8	2831.2	2789.8	2764.0
32.5°	2781.2	2670.9	2420.8	2362.2	2341.5	2358.8	2436.4	2641.5	2753.6	2710.5	2667.4
35°	2693.3	2581.2	2326.0	2267.4	2250.1	2269.1	2346.7	2551.9	2665.7	2622.6	2564.0
37.5°	2601.9	2486.4	2239.8	2186.3	2155.3	2177.7	2255.3	2458.8	2574.3	2529.5	2457.1
40°	2510.5	2386.4	2143.2	2088.1	2048.4	2081.2	2160.5	2360.5	2470.8	2429.5	2346.7
42.5°	2403.6	2286.4	2048.4	1970.8	1858.7	1963.9	2058.8	2262.2	2363.9	2324.3	2224.3
45°	2291.5	2179.4	1948.4	1760.5	1469.1	1777.7	1955.3	2158.8	2239.8	2201.9	2093.2
47.5°	2163.9	2069.1	1846.7	1560.4	1277.7	1577.7	1850.1	2060.5	2122.5	2081.2	1960.5
50°	2051.9	1958.7	1739.8	1391.5	1143.2	1410.4	1738.0	1950.1	2001.9	1963.9	1829.4
52.5°	1924.3	1843.2	1624.2	1241.5	1043.2	1260.4	1620.8	1836.3	1877.7	1832.9	1698.4
55°	1798.4	1726.0	1501.8	1108.7	955.2	1125.9	1498.4	1719.1	1751.8	1700.1	1560.4
57.5°	1670.8	1605.3	1375.9	989.7	874.2	1008.7	1384.6	1598.4	1620.8	1555.3	1427.7
60°	1538.0	1482.9	1248.4	884.5	794.9	900.1	1244.9	1477.7	1491.5	1420.8	1298.4
62.5°	1405.3	1355.3	1120.8	788.0	713.8	798.3	1129.4	1350.1	1358.7	1291.5	1165.6
65°	1269.0	1222.5	996.6	686.3	636.2	703.5	1005.2	1217.3	1225.9	1150.1	1036.3
67.5°	1127.7	1089.7	863.8	608.7	562.1	613.8	881.1	1082.8	1088.0	1013.9	910.4
70°	986.3	953.5	746.6	524.2	489.7	525.9	758.7	934.5	944.9	865.6	782.8
72.5°	841.4	815.6	632.8	436.2	405.2	436.2	639.7	798.3	805.2	739.7	658.7
75°	694.9	675.9	517.3	350.0	325.9	348.3	520.7	662.1	662.1	600.0	536.2
77.5°	553.5	539.7	396.6	269.0	251.7	265.5	398.3	524.2	520.7	472.4	422.4
80°	413.8	403.5	284.5	194.8	182.8	189.7	284.5	388.0	388.0	353.5	293.1
82.5°	296.6	284.5	187.9	127.6	120.7	124.1	184.5	270.7	275.9	250.0	198.3
85°	196.6	169.0	101.7	70.7	65.5	67.2	96.6	156.9	172.4	144.8	103.5
87.5°	86.2	56.9	25.9	10.3	5.2	6.9	20.7	50.0	65.5	43.1	13.8
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°	3214.0	3214.0	3214.0	3214.0	3214.0	3214.0
2.5°	3224.3	3196.8	3207.1	3214.0	3207.1	3238.1
5°	3220.9	3208.8	3207.1	3215.7	3201.9	3233.0
7.5°	3215.7	3208.8	3207.1	3210.5	3193.3	3222.6
10°	3203.7	3193.3	3196.8	3201.9	3179.5	3207.1
12.5°	3181.2	3170.9	3172.6	3189.9	3158.8	3183.0
15°	3143.3	3131.2	3143.3	3162.3	3134.7	3155.4
17.5°	3093.3	3074.3	3095.0	3124.3	3103.6	3122.6
20°	3029.5	3000.2	3022.6	3076.1	3057.1	3081.2
22.5°	2951.9	2915.7	2938.1	3015.7	3010.5	3036.4
25°	2864.0	2820.9	2851.9	2946.7	2957.1	2981.2
27.5°	2765.7	2717.4	2758.8	2870.9	2895.0	2922.6
30°	2658.8	2607.1	2655.3	2786.4	2822.6	2851.9
32.5°	2548.4	2491.5	2546.7	2691.5	2743.3	2781.2
35°	2432.9	2374.3	2436.4	2593.3	2655.3	2693.3
37.5°	2308.8	2251.9	2319.1	2489.8	2564.0	2601.9
40°	2181.2	2117.4	2193.2	2367.4	2465.7	2510.5
42.5°	2050.1	1970.8	2063.9	2251.9	2358.8	2403.6
45°	1903.6	1793.2	1919.1	2129.4	2241.5	2291.5
47.5°	1757.0	1646.7	1774.3	1998.4	2119.1	2163.9
50°	1615.6	1520.8	1622.5	1855.3	1995.0	2051.9
52.5°	1486.3	1408.7	1494.9	1715.6	1867.4	1924.3
55°	1365.6	1305.3	1375.9	1577.7	1732.9	1798.4
57.5°	1251.8	1213.9	1262.1	1446.6	1608.7	1670.8
60°	1144.9	1119.0	1153.5	1317.3	1462.2	1538.0
62.5°	1039.7	1025.9	1051.8	1181.1	1325.9	1405.3
65°	938.0	934.5	948.3	1062.1	1182.8	1269.0
67.5°	836.3	834.5	843.2	936.3	1043.2	1127.7
70°	734.5	744.9	739.7	800.1	903.5	986.3
72.5°	631.1	646.6	638.0	675.9	775.9	841.4
75°	515.5	536.2	519.0	562.1	624.2	694.9
77.5°	396.6	419.0	398.3	436.2	503.5	553.5
80°	284.5	305.2	287.9	317.3	375.9	413.8
82.5°	179.3	194.8	181.0	210.4	269.0	296.6
85°	79.3	87.9	91.4	113.8	165.5	196.6
87.5°	3.4	1.7	3.4	22.4	58.6	86.2
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)