

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: P520661

Luminaire Tested: **8WSLA-125-L850-UPL15-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: P520661  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 8WSLA-125-L850-UPL15-UNV-U  
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

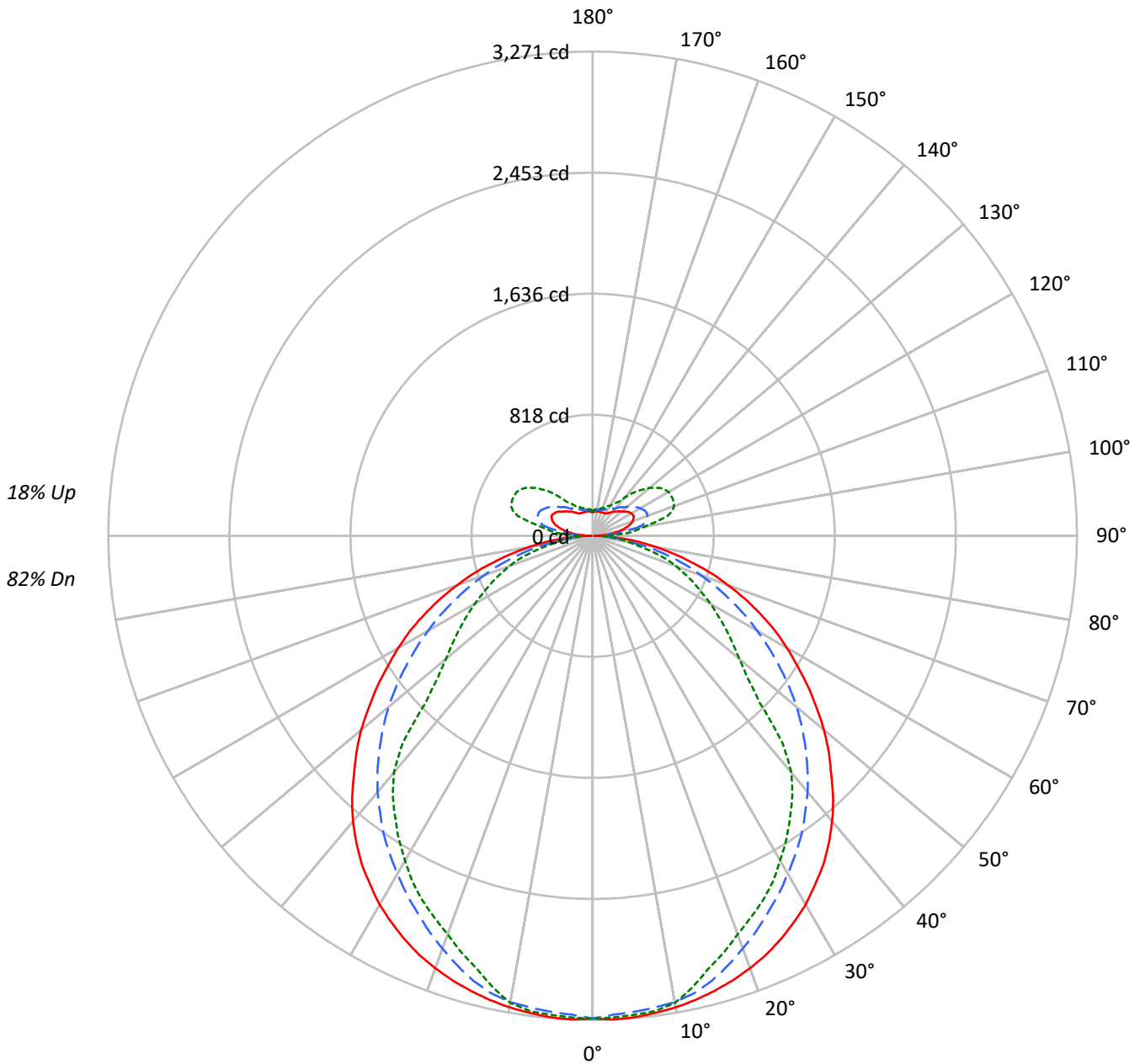
Lumens per Lamp: N/A  
Luminaire Lumens: 10562.0 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct

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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82																			
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	69																			
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	58																			
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49																			
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	42																			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36																			
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	32																			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28																			
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	25																			
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	21																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8776	8776	8776
5°	8819	8720	8774
10°	8839	8740	8758
15°	8864	8671	8431
20°	8903	8496	8202
25°	8927	8328	8073
30°	8941	8191	7873
35°	8921	8084	7638
40°	8842	7936	7332
45°	8673	7741	6080
50°	8544	7533	5414
55°	8333	7231	5152
60°	8153	6907	4949
65°	7961	6528	4802
70°	7651	6116	4711
75°	7222	5605	4334
80°	6612	4716	3845
85°	5922	4085	3881



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.1	2.9
10°-20°	878.0	8.3
20°-30°	1310.3	12.4
30°-40°	1561.3	14.8
40°-50°	1552.9	14.7
50°-60°	1330.9	12.6
60°-70°	1002.4	9.5
70°-80°	580.5	5.5
80°-90°	174.5	1.7
90°-100°	187.3	1.8
100°-110°	384.7	3.6
110°-120°	406.7	3.9
120°-130°	339.3	3.2
130°-140°	237.0	2.2
140°-150°	147.5	1.4
150°-160°	91.4	0.9
160°-170°	51.5	0.5
170°-180°	16.6	0.2
0°-30°	2497.4	23.6
0°-40°	4058.7	38.4
0°-60°	6942.6	65.7
0°-90°	8699.9	82.4
90°-120°	978.7	9.3
90°-150°	1702.5	16.1
90°-180°	1862.0	17.6
0°-180°	10562.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3261	3261	3261	3261	3261	
5°	3265	3255	3228	3251	3248	311
15°	3182	3179	3112	3060	3026	899
25°	3007	2964	2805	2735	2719	1386
35°	2716	2643	2461	2365	2325	1696
45°	2279	2223	2034	1832	1598	1762
55°	1776	1750	1541	1224	1098	1588
65°	1250	1220	1025	797	754	1236
75°	695	671	539	430	417	736
85°	192	169	132	126	126	205
90°	10	46	79	99	106	19
95°	106	142	162	238	258	101
105°	248	258	370	496	526	257
115°	308	261	394	542	595	299
125°	284	251	341	499	562	253
135°	232	251	274	370	427	181
145°	188	218	238	255	271	120
155°	172	182	195	212	215	79
165°	169	175	182	188	188	48
175°	165	169	172	175	179	16
180°	162	162	162	162	162	



TEST NUMBER: P520661

CATALOG NUMBER: 8WSLA-125-L850-UPL15-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3261.3	3261.3	3261.3	3261.3	3261.3
2.5°	3271.2	3264.6	3238.1	3264.6	3257.9
5°	3264.6	3254.6	3228.2	3251.3	3248.0
7.5°	3251.3	3244.7	3214.9	3241.4	3238.1
10°	3234.8	3224.9	3198.4	3218.3	3205.0
12.5°	3211.6	3205.0	3165.3	3148.8	3122.3
15°	3181.9	3178.6	3112.4	3059.5	3026.4
17.5°	3148.8	3135.6	3043.0	2980.1	2950.3
20°	3109.1	3089.3	2966.9	2894.1	2864.3
22.5°	3062.8	3033.0	2890.8	2821.3	2791.6
25°	3006.6	2963.6	2804.8	2735.4	2718.8
27.5°	2943.7	2894.1	2725.4	2656.0	2636.1
30°	2877.6	2814.7	2636.1	2570.0	2533.6
32.5°	2794.9	2735.4	2550.1	2474.1	2434.4
35°	2715.5	2642.7	2460.8	2364.9	2325.2
37.5°	2619.6	2546.8	2358.3	2262.4	2216.1
40°	2517.1	2444.3	2259.1	2146.6	2087.1
42.5°	2404.6	2338.4	2149.9	2014.3	1898.5
45°	2278.9	2222.7	2034.1	1832.4	1597.6
47.5°	2163.1	2110.2	1918.4	1657.1	1415.6
50°	2040.8	1991.2	1799.3	1491.7	1293.3
52.5°	1905.2	1868.8	1670.3	1349.5	1190.7
55°	1776.2	1749.7	1541.3	1223.8	1098.1
57.5°	1640.5	1614.1	1412.3	1104.7	1005.5
60°	1514.9	1488.4	1283.3	998.9	919.5
62.5°	1389.2	1352.8	1157.6	896.3	830.2
65°	1250.3	1220.5	1025.3	797.1	754.1
67.5°	1111.3	1084.9	903.0	704.5	674.7
70°	972.4	949.3	777.3	615.2	598.7
72.5°	836.8	807.0	664.8	525.9	519.3
75°	694.6	671.4	539.1	430.0	416.8
77.5°	559.0	539.1	423.4	327.4	317.5
80°	426.7	406.8	304.3	238.1	248.1
82.5°	314.2	287.8	205.1	185.2	195.1
85°	191.8	168.7	132.3	125.7	125.7
87.5°	66.2	62.8	59.5	69.5	72.8
90°	9.9	46.3	79.4	99.2	105.8
92.5°	56.2	82.7	109.1	129.0	135.6
95°	105.8	142.2	162.1	238.1	258.0
97.5°	145.5	188.5	211.7	281.1	301.0
100°	185.2	224.9	297.7	334.1	357.2
102.5°	218.3	248.1	350.6	423.4	436.6
105°	248.1	258.0	370.4	496.1	525.9



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CATALOG NUMBER: 8WSLA-125-L850-UPL15-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	297.7	264.6	396.9	539.1	592.1
115°	307.6	261.3	393.6	542.4	595.4
117.5°	307.6	261.3	383.7	542.4	595.4
120°	301.0	264.6	370.4	535.8	592.1
122.5°	294.4	258.0	357.2	522.6	578.8
125°	284.5	251.4	340.7	499.4	562.3
127.5°	267.9	258.0	324.1	469.7	532.5
130°	254.7	261.3	304.3	439.9	502.7
132.5°	244.8	254.7	284.5	406.8	463.1
135°	231.5	251.4	274.5	370.4	426.7
137.5°	221.6	241.5	258.0	337.4	383.7
140°	211.7	234.8	241.5	294.4	334.1
142.5°	198.5	224.9	228.2	274.5	291.1
145°	188.5	218.3	238.1	254.7	271.2
147.5°	178.6	205.1	231.5	234.8	251.4
150°	175.3	191.8	221.6	224.9	231.5
152.5°	172.0	185.2	205.1	224.9	228.2
155°	172.0	181.9	195.1	211.7	215.0
157.5°	168.7	181.9	188.5	201.8	205.1
160°	168.7	178.6	185.2	195.1	198.5
162.5°	168.7	178.6	181.9	191.8	195.1
165°	168.7	175.3	181.9	188.5	188.5
167.5°	168.7	175.3	178.6	185.2	185.2
170°	168.7	172.0	178.6	181.9	181.9
172.5°	165.4	172.0	175.3	181.9	181.9
175°	165.4	168.7	172.0	175.3	178.6
177.5°	158.8	168.7	172.0	175.3	172.0
180°	162.1	162.1	162.1	162.1	162.1



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	271.2	261.3	383.7	522.6	565.6
110°	287.8	264.6	393.6	532.5	585.4



(END OF REPORT)