

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: P520668

Luminaire Tested: **8WSLA-125-L935-UPL8-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: P520668  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 8WSLA-125-L935-UPL8-UNV-U  
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

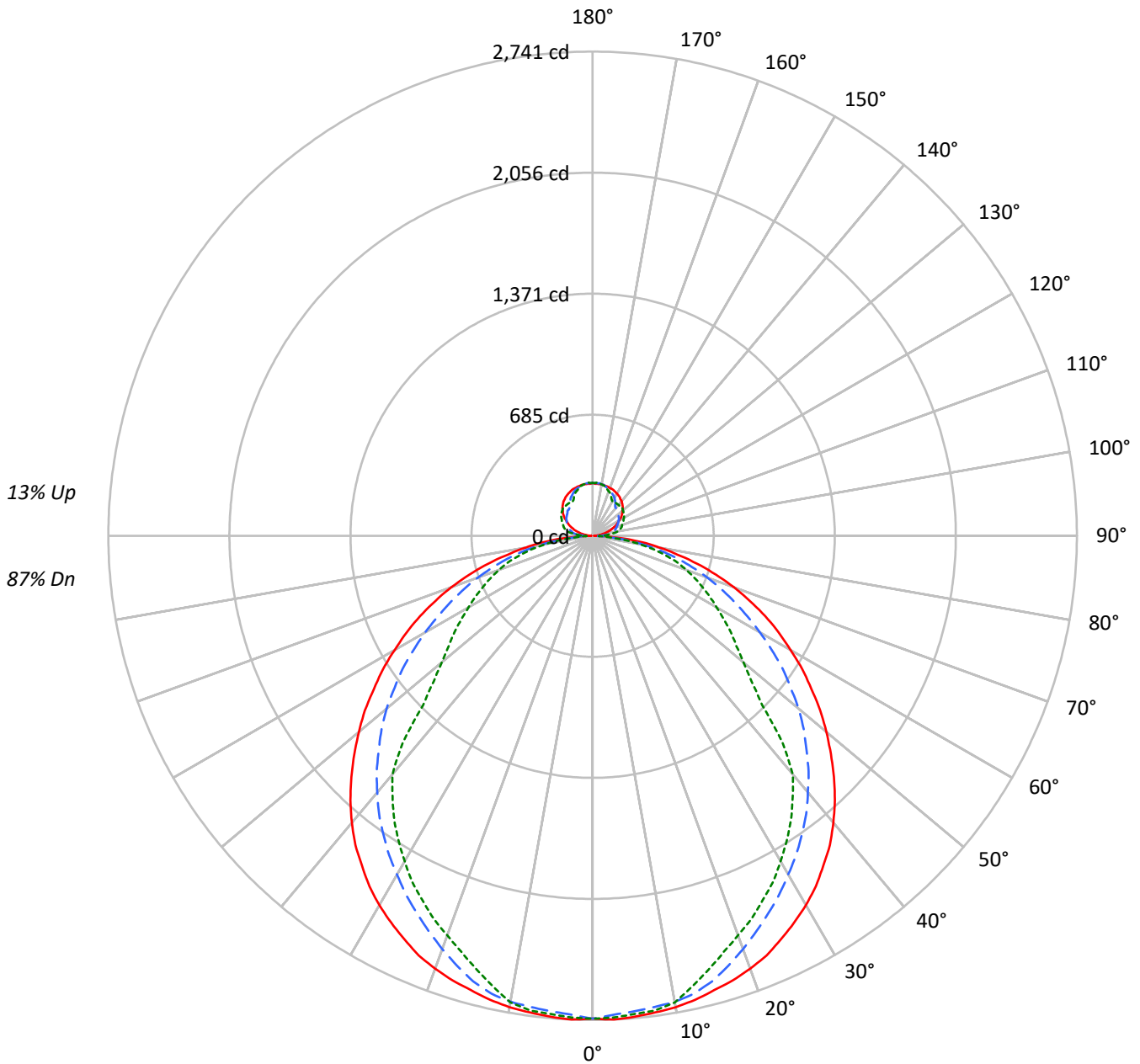
Lumens per Lamp: N/A  
Luminaire Lumens: 8507.1 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 78.2  
Input Voltage (V): NR  
Input Current (Ain): 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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CATALOG NUMBER: 8WSLA-125-L935-UPL8-UNV-U

### 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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

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

	0°	45°	90°
0°	7356	7356	7356
5°	7384	7299	7341
10°	7405	7319	7330
15°	7418	7276	7078
20°	7467	7129	6893
25°	7486	6995	6762
30°	7504	6880	6612
35°	7481	6783	6434
40°	7447	6660	6190
45°	7349	6511	5164
50°	7228	6372	4660
55°	7086	6163	4484
60°	6964	5885	4360
65°	6862	5635	4358
70°	6684	5415	4425
75°	6380	5153	4457
80°	5972	4632	4145
85°	5465	3279	2794



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.8	3.0
10°-20°	735.7	8.6
20°-30°	1099.3	12.9
30°-40°	1312.2	15.4
40°-50°	1312.4	15.4
50°-60°	1135.8	13.4
60°-70°	871.8	10.2
70°-80°	534.2	6.3
80°-90°	150.4	1.8
90°-100°	85.0	1.0
100°-110°	134.9	1.6
110°-120°	157.7	1.9
120°-130°	170.3	2.0
130°-140°	167.8	2.0
140°-150°	148.4	1.7
150°-160°	122.2	1.4
160°-170°	81.7	1.0
170°-180°	28.5	0.3
0°-30°	2093.8	24.6
0°-40°	3406.0	40.0
0°-60°	5854.2	68.8
0°-90°	7410.5	87.1
90°-120°	377.6	4.4
90°-150°	864.2	10.2
90°-180°	1097.0	12.9
0°-180°	8507.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2734	2734	2734	2734	2734	
5°	2734	2726	2702	2722	2718	260
15°	2663	2659	2612	2564	2541	753
25°	2521	2490	2356	2293	2277	1163
35°	2277	2218	2065	1990	1959	1426
45°	1931	1876	1711	1558	1357	1489
55°	1510	1475	1314	1050	956	1354
65°	1078	1038	885	712	684	1064
75°	614	582	496	429	429	647
85°	177	146	106	90	90	185
90°	8	28	43	55	59	12
95°	32	67	90	94	94	31
105°	90	94	134	157	165	95
115°	150	126	157	181	193	146
125°	201	161	181	208	216	179
135°	240	216	201	220	232	185
145°	268	256	224	220	228	167
155°	283	279	264	252	248	131
165°	291	295	287	287	287	83
175°	295	299	299	303	303	28
180°	299	299	299	299	299	



TEST NUMBER: P520668

CATALOG NUMBER: 8WSLA-125-L935-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2733.5	2733.5	2733.5	2733.5	2733.5
2.5°	2741.4	2733.5	2713.8	2733.5	2729.6
5°	2733.5	2725.6	2702.0	2721.7	2717.8
7.5°	2721.7	2713.8	2690.2	2713.8	2709.9
10°	2709.9	2702.0	2678.4	2694.2	2682.4
12.5°	2690.2	2682.4	2654.8	2635.2	2611.6
15°	2662.7	2658.8	2611.6	2564.4	2540.8
17.5°	2639.1	2627.3	2552.6	2497.5	2470.0
20°	2607.6	2588.0	2489.6	2426.7	2407.1
22.5°	2572.2	2540.8	2422.8	2363.8	2348.1
25°	2521.1	2489.6	2355.9	2293.0	2277.3
27.5°	2470.0	2430.7	2289.1	2226.1	2210.4
30°	2414.9	2359.9	2214.3	2155.3	2127.8
32.5°	2352.0	2296.9	2143.5	2076.7	2045.2
35°	2277.3	2218.3	2064.9	1990.1	1958.7
37.5°	2206.5	2143.5	1986.2	1903.6	1860.4
40°	2119.9	2057.0	1895.8	1805.3	1762.0
42.5°	2029.5	1970.5	1809.2	1699.1	1592.9
45°	1931.1	1876.1	1710.9	1557.5	1356.9
47.5°	1828.9	1781.7	1620.4	1412.0	1219.3
50°	1726.6	1679.4	1522.1	1274.3	1113.1
52.5°	1624.4	1585.0	1412.0	1160.3	1026.5
55°	1510.3	1474.9	1313.7	1050.1	955.7
57.5°	1408.0	1372.6	1199.6	959.7	881.0
60°	1294.0	1262.5	1093.4	869.2	810.2
62.5°	1187.8	1152.4	987.2	790.6	747.3
65°	1077.7	1038.3	884.9	711.9	684.4
67.5°	963.6	924.3	786.6	641.1	625.4
70°	849.5	818.1	688.3	570.3	562.4
72.5°	731.6	696.2	590.0	503.4	503.4
75°	613.6	582.1	495.6	428.7	428.7
77.5°	491.6	475.9	397.2	350.0	354.0
80°	385.4	365.8	298.9	267.5	267.5
82.5°	283.2	259.6	200.6	177.0	184.9
85°	177.0	145.5	106.2	90.5	90.5
87.5°	55.1	43.3	31.5	35.4	35.4
90°	7.9	27.5	43.3	55.1	59.0
92.5°	19.7	51.1	62.9	74.7	78.7
95°	31.5	66.9	90.5	94.4	94.4
97.5°	43.3	74.7	110.1	125.9	125.9
100°	59.0	78.7	118.0	141.6	145.5
102.5°	74.7	86.5	125.9	149.5	157.3
105°	90.5	94.4	133.7	157.3	165.2



TEST NUMBER: P520668

CATALOG NUMBER: 8WSLA-125-L935-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	133.7	118.0	149.5	177.0	184.9
115°	149.5	125.9	157.3	180.9	192.7
117.5°	161.3	137.7	165.2	188.8	196.7
120°	173.1	145.5	169.1	196.7	204.5
122.5°	188.8	153.4	177.0	200.6	212.4
125°	200.6	161.3	180.9	208.5	216.3
127.5°	212.4	177.0	184.9	212.4	220.3
130°	220.3	192.7	188.8	216.3	224.2
132.5°	232.1	204.5	192.7	220.3	228.1
135°	239.9	216.3	200.6	220.3	232.1
137.5°	247.8	228.1	200.6	220.3	228.1
140°	255.7	239.9	204.5	220.3	228.1
142.5°	259.6	247.8	208.5	220.3	228.1
145°	267.5	255.7	224.2	220.3	228.1
147.5°	271.4	263.5	236.0	220.3	228.1
150°	275.3	271.4	247.8	224.2	224.2
152.5°	279.2	275.3	255.7	239.9	232.1
155°	283.2	279.2	263.5	251.7	247.8
157.5°	287.1	287.1	271.4	263.5	259.6
160°	287.1	291.0	279.2	271.4	267.5
162.5°	291.0	295.0	283.2	279.2	275.3
165°	291.0	295.0	287.1	287.1	287.1
167.5°	295.0	298.9	295.0	291.0	291.0
170°	295.0	298.9	295.0	295.0	295.0
172.5°	295.0	298.9	298.9	298.9	298.9
175°	295.0	298.9	298.9	302.8	302.8
177.5°	295.0	298.9	298.9	298.9	298.9
180°	298.9	298.9	298.9	298.9	298.9



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	106.2	102.3	137.7	165.2	173.1
110°	118.0	110.1	145.5	169.1	177.0



(END OF REPORT)