

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: P520662

Luminaire Tested: **8WSLA-125-L850-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: P520662
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-L850-UPL8-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

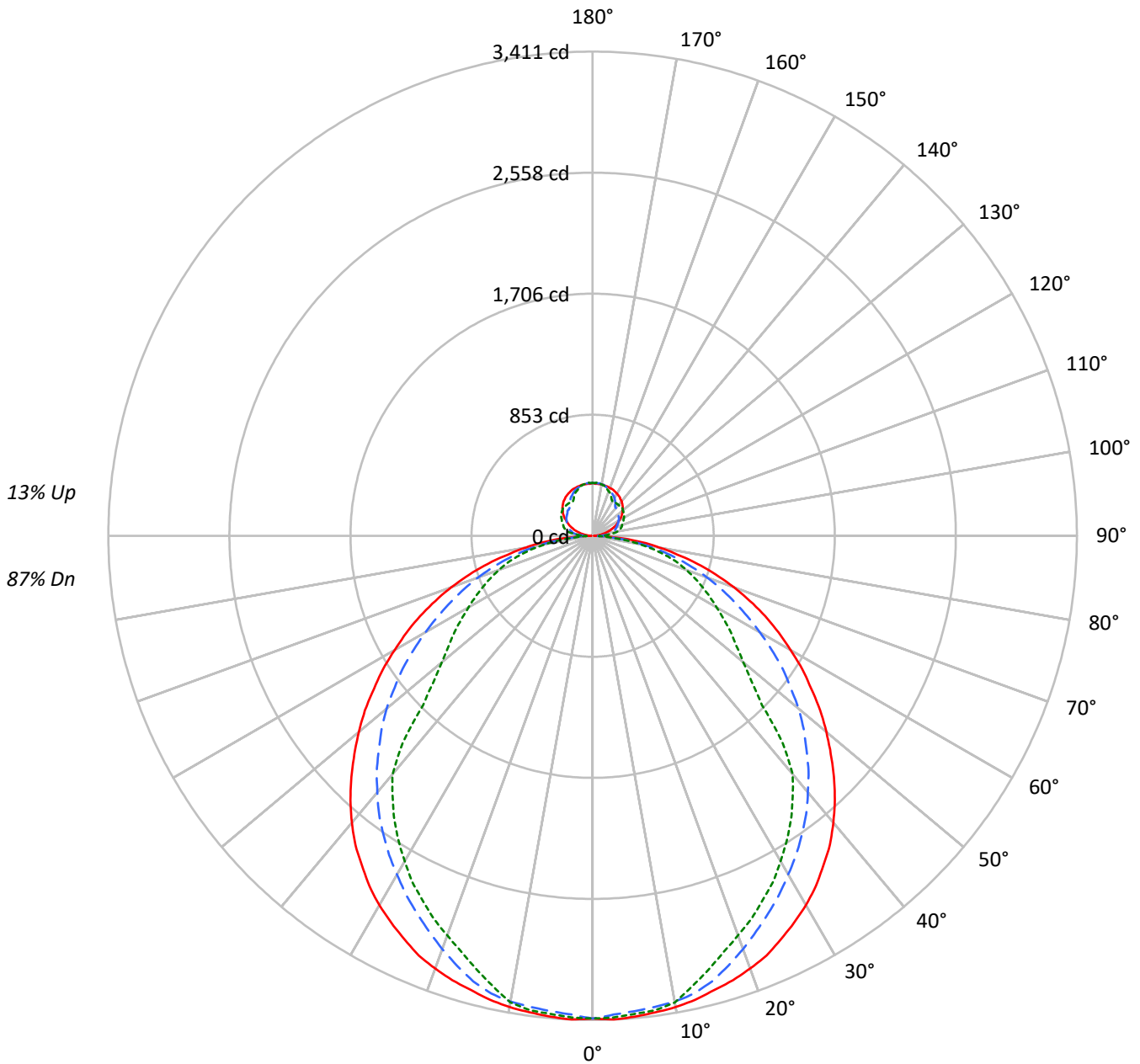
Lumens per Lamp: N/A
Luminaire Lumens: 10585.0 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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

TEST NUMBER: P520662

CATALOG NUMBER: 8WSLA-125-L850-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520662

CATALOG NUMBER: 8WSLA-125-L850-UPL8-UNV-U

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°	9153	9153	9153
5°	9188	9082	9135
10°	9213	9107	9120
15°	9230	9053	8807
20°	9291	8871	8577
25°	9314	8704	8413
30°	9337	8561	8227
35°	9308	8440	8006
40°	9266	8286	7702
45°	9145	8101	6425
50°	8994	7929	5798
55°	8816	7668	5579
60°	8665	7322	5426
65°	8538	7011	5422
70°	8317	6738	5506
75°	7937	6411	5546
80°	7432	5763	5157
85°	6799	4079	3477



TEST NUMBER: P520662

CATALOG NUMBER: 8WSLA-125-L850-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.0	3.0
10°-20°	915.4	8.6
20°-30°	1367.8	12.9
30°-40°	1632.8	15.4
40°-50°	1632.9	15.4
50°-60°	1413.2	13.4
60°-70°	1084.7	10.2
70°-80°	664.7	6.3
80°-90°	187.1	1.8
90°-100°	105.8	1.0
100°-110°	167.9	1.6
110°-120°	196.3	1.9
120°-130°	211.9	2.0
130°-140°	208.8	2.0
140°-150°	184.7	1.7
150°-160°	152.0	1.4
160°-170°	101.7	1.0
170°-180°	35.4	0.3
0°-30°	2605.2	24.6
0°-40°	4238.0	40.0
0°-60°	7284.2	68.8
0°-90°	9220.7	87.1
90°-120°	469.9	4.4
90°-150°	1075.2	10.2
90°-180°	1364.0	12.9
0°-180°	10585.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3401	3401	3401	3401	3401	
5°	3401	3391	3362	3386	3382	324
15°	3313	3308	3250	3191	3161	937
25°	3137	3098	2931	2853	2834	1447
35°	2834	2760	2569	2476	2437	1774
45°	2403	2334	2129	1938	1688	1853
55°	1879	1835	1634	1307	1189	1685
65°	1341	1292	1101	886	852	1324
75°	763	724	617	533	533	805
85°	220	181	132	113	113	230
90°	10	34	54	68	73	15
95°	39	83	113	118	118	39
105°	113	118	166	196	206	118
115°	186	157	196	225	240	182
125°	250	201	225	259	269	222
135°	298	269	250	274	289	230
145°	333	318	279	274	284	208
155°	352	348	328	313	308	163
165°	362	367	357	357	357	103
175°	367	372	372	377	377	35
180°	372	372	372	372	372	



TEST NUMBER: P520662

CATALOG NUMBER: 8WSLA-125-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3401.2	3401.2	3401.2	3401.2	3401.2
2.5°	3411.0	3401.2	3376.7	3401.2	3396.3
5°	3401.2	3391.4	3362.1	3386.5	3381.6
7.5°	3386.5	3376.7	3347.4	3376.7	3371.8
10°	3371.8	3362.1	3332.7	3352.3	3337.6
12.5°	3347.4	3337.6	3303.3	3278.9	3249.5
15°	3313.1	3308.2	3249.5	3190.8	3161.4
17.5°	3283.8	3269.1	3176.1	3107.6	3073.3
20°	3244.6	3220.1	3097.8	3019.5	2995.0
22.5°	3200.6	3161.4	3014.6	2941.2	2921.6
25°	3136.9	3097.8	2931.4	2853.1	2833.5
27.5°	3073.3	3024.4	2848.2	2769.9	2750.3
30°	3004.8	2936.3	2755.2	2681.8	2647.6
32.5°	2926.5	2858.0	2667.1	2583.9	2544.8
35°	2833.5	2760.1	2569.3	2476.3	2437.1
37.5°	2745.4	2667.1	2471.4	2368.6	2314.8
40°	2637.8	2559.5	2358.8	2246.3	2192.4
42.5°	2525.2	2451.8	2251.2	2114.1	1982.0
45°	2402.9	2334.4	2128.8	1938.0	1688.4
47.5°	2275.6	2216.9	2016.3	1756.9	1517.1
50°	2148.4	2089.7	1893.9	1585.6	1385.0
52.5°	2021.2	1972.2	1756.9	1443.7	1277.3
55°	1879.2	1835.2	1634.5	1306.7	1189.2
57.5°	1752.0	1707.9	1492.6	1194.1	1096.2
60°	1610.1	1570.9	1360.5	1081.5	1008.1
62.5°	1477.9	1433.9	1228.4	983.7	929.8
65°	1340.9	1292.0	1101.1	885.8	851.5
67.5°	1199.0	1150.0	978.8	797.7	778.1
70°	1057.1	1017.9	856.4	709.6	699.8
72.5°	910.3	866.2	734.1	626.4	626.4
75°	763.4	724.3	616.6	533.4	533.4
77.5°	611.7	592.2	494.3	435.6	440.4
80°	479.6	455.1	371.9	332.8	332.8
82.5°	352.4	323.0	249.6	220.2	230.0
85°	220.2	181.1	132.1	112.6	112.6
87.5°	68.5	53.8	39.2	44.0	44.0
90°	9.8	34.3	53.8	68.5	73.4
92.5°	24.5	63.6	78.3	93.0	97.9
95°	39.2	83.2	112.6	117.5	117.5
97.5°	53.8	93.0	137.0	156.6	156.6
100°	73.4	97.9	146.8	176.2	181.1
102.5°	93.0	107.7	156.6	186.0	195.8
105°	112.6	117.5	166.4	195.8	205.5



TEST NUMBER: P520662

CATALOG NUMBER: 8WSLA-125-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	166.4	146.8	186.0	220.2	230.0
115°	186.0	156.6	195.8	225.1	239.8
117.5°	200.6	171.3	205.5	234.9	244.7
120°	215.3	181.1	210.4	244.7	254.5
122.5°	234.9	190.9	220.2	249.6	264.3
125°	249.6	200.6	225.1	259.4	269.2
127.5°	264.3	220.2	230.0	264.3	274.1
130°	274.1	239.8	234.9	269.2	278.9
132.5°	288.7	254.5	239.8	274.1	283.8
135°	298.5	269.2	249.6	274.1	288.7
137.5°	308.3	283.8	249.6	274.1	283.8
140°	318.1	298.5	254.5	274.1	283.8
142.5°	323.0	308.3	259.4	274.1	283.8
145°	332.8	318.1	278.9	274.1	283.8
147.5°	337.7	327.9	293.6	274.1	283.8
150°	342.6	337.7	308.3	278.9	278.9
152.5°	347.5	342.6	318.1	298.5	288.7
155°	352.4	347.5	327.9	313.2	308.3
157.5°	357.2	357.2	337.7	327.9	323.0
160°	357.2	362.1	347.5	337.7	332.8
162.5°	362.1	367.0	352.4	347.5	342.6
165°	362.1	367.0	357.2	357.2	357.2
167.5°	367.0	371.9	367.0	362.1	362.1
170°	367.0	371.9	367.0	367.0	367.0
172.5°	367.0	371.9	371.9	371.9	371.9
175°	367.0	371.9	371.9	376.8	376.8
177.5°	367.0	371.9	371.9	371.9	371.9
180°	371.9	371.9	371.9	371.9	371.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	132.1	127.2	171.3	205.5	215.3
110°	146.8	137.0	181.1	210.4	220.2



(END OF REPORT)