

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: P520655

Luminaire Tested: **8WSLA-125-L835-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: P520655
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-L835-UPL15-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

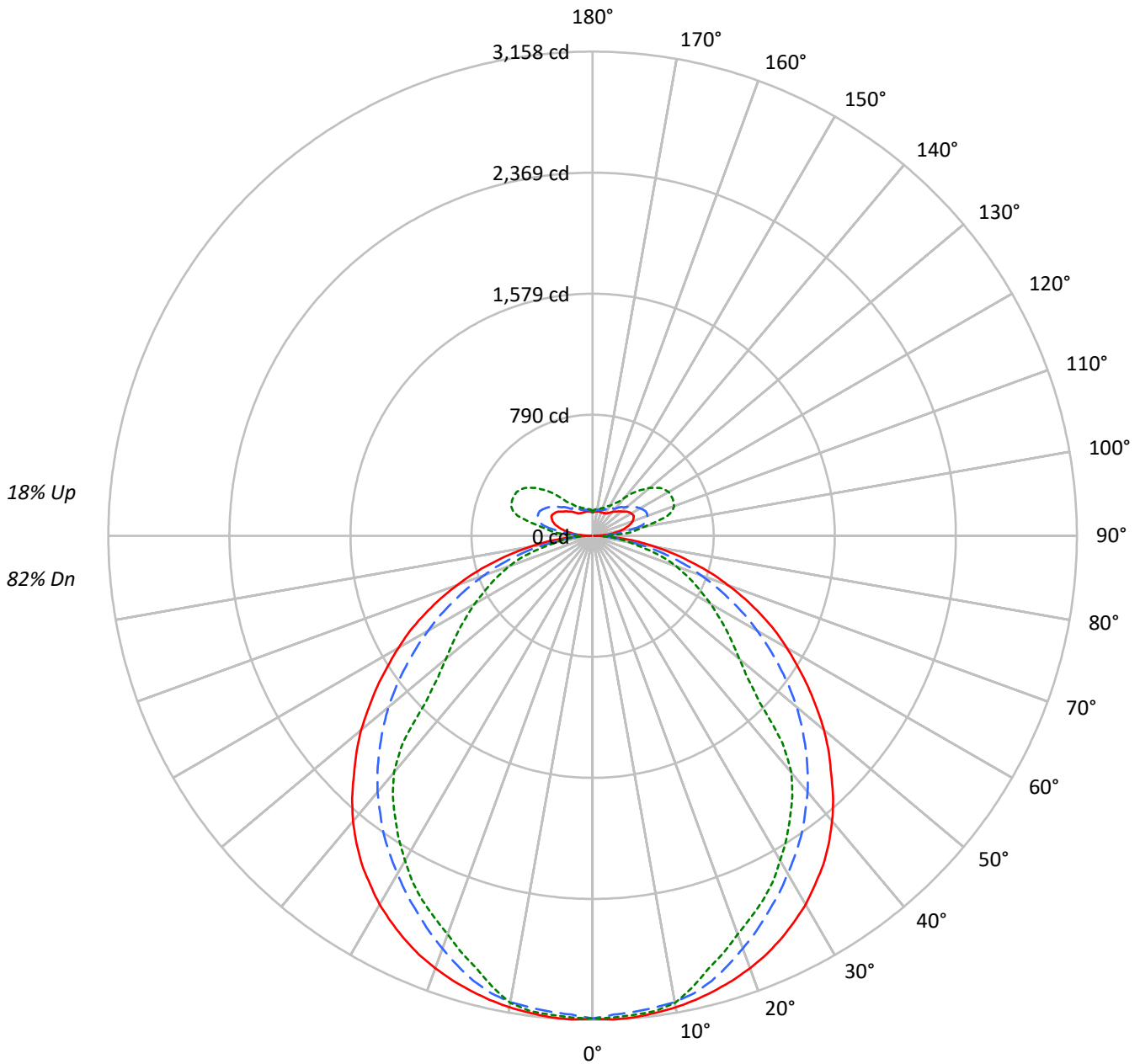
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10197.0 lumens
Efficiency: N/A
Efficacy: 130.4 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 (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: P520655
CATALOG NUMBER: 8WSLA-125-L835-UPL15-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520655

CATALOG NUMBER: 8WSLA-125-L835-UPL15-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	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°	8473	8473	8473
5°	8514	8419	8471
10°	8534	8438	8455
15°	8558	8371	8140
20°	8596	8203	7919
25°	8619	8040	7794
30°	8632	7908	7600
35°	8612	7805	7375
40°	8537	7661	7078
45°	8373	7474	5869
50°	8248	7272	5227
55°	8045	6982	4974
60°	7871	6668	4778
65°	7686	6303	4636
70°	7386	5904	4548
75°	6972	5412	4184
80°	6383	4553	3711
85°	5718	3943	3745



TEST NUMBER: P520655

CATALOG NUMBER: 8WSLA-125-L835-UPL15-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.4	2.9
10°-20°	847.7	8.3
20°-30°	1265.0	12.4
30°-40°	1507.3	14.8
40°-50°	1499.3	14.7
50°-60°	1284.9	12.6
60°-70°	967.7	9.5
70°-80°	560.5	5.5
80°-90°	168.4	1.7
90°-100°	180.8	1.8
100°-110°	371.4	3.6
110°-120°	392.7	3.9
120°-130°	327.6	3.2
130°-140°	228.8	2.2
140°-150°	142.4	1.4
150°-160°	88.3	0.9
160°-170°	49.7	0.5
170°-180°	16.0	0.2
0°-30°	2411.1	23.6
0°-40°	3918.4	38.4
0°-60°	6702.6	65.7
0°-90°	8399.3	82.4
90°-120°	944.9	9.3
90°-150°	1643.7	16.1
90°-180°	1798.0	17.6
0°-180°	10197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3149	3149	3149	3149	3149	
5°	3152	3142	3117	3139	3136	300
15°	3072	3069	3005	2954	2922	868
25°	2903	2861	2708	2641	2625	1338
35°	2622	2551	2376	2283	2245	1637
45°	2200	2146	1964	1769	1542	1701
55°	1715	1689	1488	1182	1060	1533
65°	1207	1178	990	770	728	1193
75°	671	648	520	415	402	710
85°	185	163	128	121	121	198
90°	10	45	77	96	102	19
95°	102	137	156	230	249	98
105°	240	249	358	479	508	248
115°	297	252	380	524	575	289
125°	275	243	329	482	543	244
135°	224	243	265	358	412	174
145°	182	211	230	246	262	116
155°	166	176	188	204	208	77
165°	163	169	176	182	182	46
175°	160	163	166	169	172	15
180°	156	156	156	156	156	



TEST NUMBER: P520655

CATALOG NUMBER: 8WSLA-125-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3148.6	3148.6	3148.6	3148.6	3148.6
2.5°	3158.1	3151.7	3126.2	3151.7	3145.4
5°	3151.7	3142.2	3116.6	3139.0	3135.8
7.5°	3139.0	3132.6	3103.8	3129.4	3126.2
10°	3123.0	3113.4	3087.9	3107.0	3094.3
12.5°	3100.7	3094.3	3055.9	3040.0	3014.4
15°	3071.9	3068.7	3004.9	2953.8	2921.8
17.5°	3040.0	3027.2	2937.8	2877.1	2848.4
20°	3001.7	2982.5	2864.4	2794.1	2765.4
22.5°	2957.0	2928.2	2790.9	2723.8	2695.1
25°	2902.7	2861.2	2707.9	2640.8	2624.9
27.5°	2842.0	2794.1	2631.2	2564.2	2545.0
30°	2778.1	2717.5	2545.0	2481.2	2446.0
32.5°	2698.3	2640.8	2462.0	2388.6	2350.2
35°	2621.7	2551.4	2375.8	2283.2	2244.9
37.5°	2529.1	2458.8	2276.8	2184.2	2139.5
40°	2430.1	2359.8	2181.0	2072.4	2014.9
42.5°	2321.5	2257.6	2075.6	1944.7	1832.9
45°	2200.2	2145.9	1963.9	1769.1	1542.3
47.5°	2088.4	2037.3	1852.1	1599.8	1366.7
50°	1970.2	1922.3	1737.1	1440.2	1248.6
52.5°	1839.3	1804.2	1612.6	1302.8	1149.6
55°	1714.8	1689.2	1488.1	1181.5	1060.2
57.5°	1583.9	1558.3	1363.5	1066.5	970.7
60°	1462.5	1437.0	1239.0	964.4	887.7
62.5°	1341.2	1306.0	1117.6	865.4	801.5
65°	1207.1	1178.3	989.9	769.6	728.1
67.5°	1072.9	1047.4	871.8	680.2	651.4
70°	938.8	916.5	750.4	593.9	578.0
72.5°	807.9	779.2	641.8	507.7	501.3
75°	670.6	648.2	520.5	415.1	402.4
77.5°	539.7	520.5	408.7	316.1	306.6
80°	411.9	392.8	293.8	229.9	239.5
82.5°	303.4	277.8	198.0	178.8	188.4
85°	185.2	162.9	127.7	121.3	121.3
87.5°	63.9	60.7	57.5	67.1	70.3
90°	9.6	44.7	76.6	95.8	102.2
92.5°	54.3	79.8	105.4	124.5	130.9
95°	102.2	137.3	156.5	229.9	249.1
97.5°	140.5	182.0	204.4	271.4	290.6
100°	178.8	217.1	287.4	322.5	344.9
102.5°	210.8	239.5	338.5	408.7	421.5
105°	239.5	249.1	357.6	479.0	507.7



TEST NUMBER: P520655

CATALOG NUMBER: 8WSLA-125-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	287.4	255.5	383.2	520.5	571.6
115°	297.0	252.3	380.0	523.7	574.8
117.5°	297.0	252.3	370.4	523.7	574.8
120°	290.6	255.5	357.6	517.3	571.6
122.5°	284.2	249.1	344.9	504.5	558.8
125°	274.6	242.7	328.9	482.2	542.9
127.5°	258.7	249.1	312.9	453.4	514.1
130°	245.9	252.3	293.8	424.7	485.4
132.5°	236.3	245.9	274.6	392.8	447.1
135°	223.5	242.7	265.0	357.6	411.9
137.5°	213.9	233.1	249.1	325.7	370.4
140°	204.4	226.7	233.1	284.2	322.5
142.5°	191.6	217.1	220.3	265.0	281.0
145°	182.0	210.8	229.9	245.9	261.8
147.5°	172.4	198.0	223.5	226.7	242.7
150°	169.2	185.2	213.9	217.1	223.5
152.5°	166.0	178.8	198.0	217.1	220.3
155°	166.0	175.6	188.4	204.4	207.6
157.5°	162.9	175.6	182.0	194.8	198.0
160°	162.9	172.4	178.8	188.4	191.6
162.5°	162.9	172.4	175.6	185.2	188.4
165°	162.9	169.2	175.6	182.0	182.0
167.5°	162.9	169.2	172.4	178.8	178.8
170°	162.9	166.0	172.4	175.6	175.6
172.5°	159.7	166.0	169.2	175.6	175.6
175°	159.7	162.9	166.0	169.2	172.4
177.5°	153.3	162.9	166.0	169.2	166.0
180°	156.5	156.5	156.5	156.5	156.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	261.8	252.3	370.4	504.5	546.0
110°	277.8	255.5	380.0	514.1	565.2



(END OF REPORT)