

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: P520631

Luminaire Tested: **8WSLA-100-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: P520631
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-100-L835-UPL15-UNV-U
Description: 8 FOOT, 2000 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

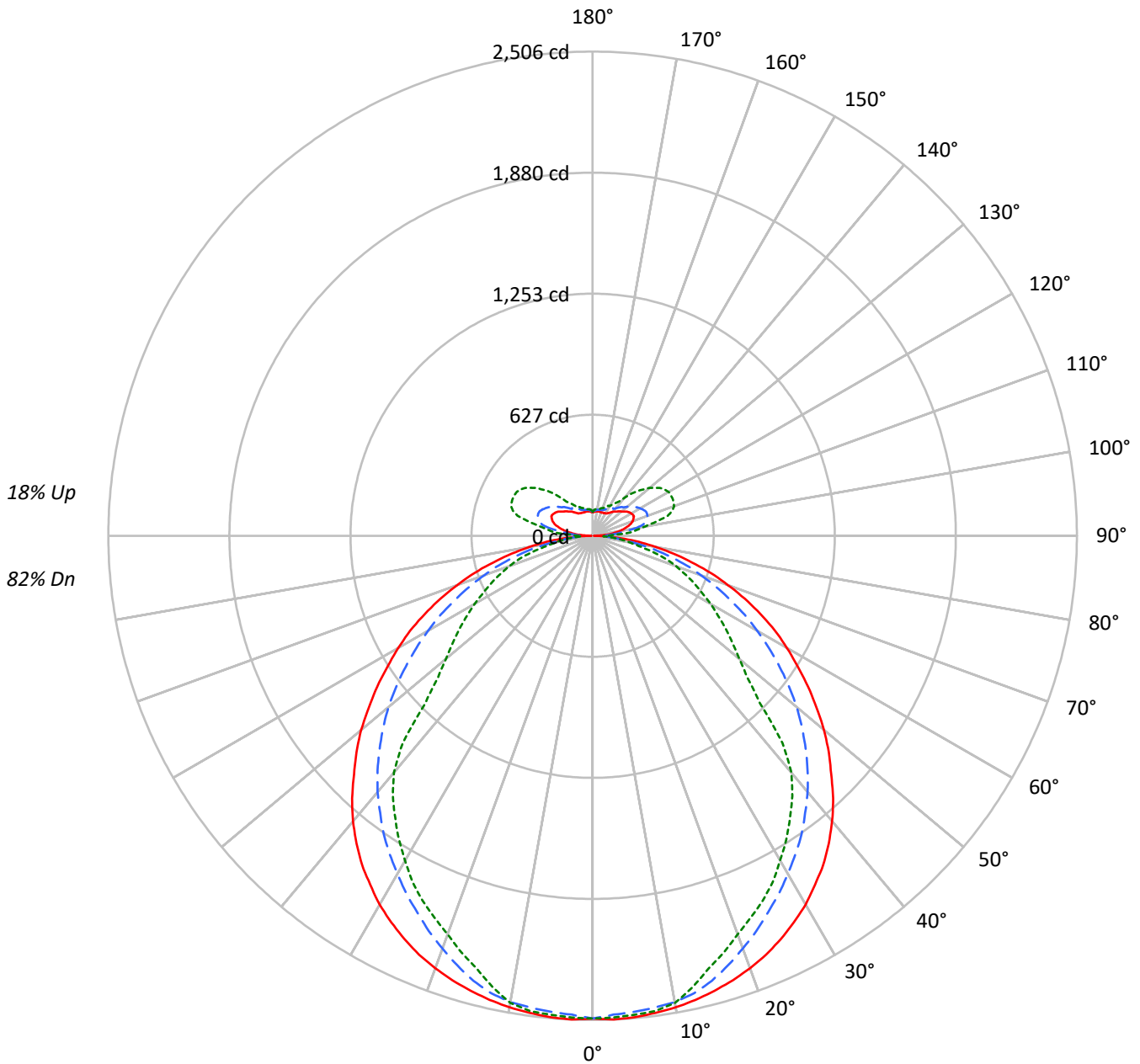
Lumens per Lamp: N/A
Luminaire Lumens: 8092.0 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.4
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: P520631

CATALOG NUMBER: 8WSLA-100-L835-UPL15-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520631

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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°	6724	6724	6724
5°	6756	6681	6722
10°	6772	6696	6710
15°	6791	6643	6460
20°	6821	6509	6284
25°	6839	6380	6185
30°	6850	6275	6032
35°	6835	6193	5852
40°	6774	6080	5617
45°	6645	5931	4658
50°	6545	5771	4148
55°	6384	5540	3947
60°	6246	5292	3792
65°	6099	5002	3679
70°	5862	4685	3609
75°	5533	4295	3320
80°	5066	3612	2946
85°	4539	3131	2973



TEST NUMBER: P520631

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	2.9
10°-20°	672.7	8.3
20°-30°	1003.9	12.4
30°-40°	1196.2	14.8
40°-50°	1189.8	14.7
50°-60°	1019.7	12.6
60°-70°	768.0	9.5
70°-80°	444.8	5.5
80°-90°	133.7	1.7
90°-100°	143.5	1.8
100°-110°	294.7	3.6
110°-120°	311.6	3.9
120°-130°	260.0	3.2
130°-140°	181.6	2.2
140°-150°	113.0	1.4
150°-160°	70.1	0.9
160°-170°	39.5	0.5
170°-180°	12.7	0.2
0°-30°	1913.4	23.6
0°-40°	3109.5	38.4
0°-60°	5319.0	65.7
0°-90°	6665.4	82.4
90°-120°	749.8	9.3
90°-150°	1304.4	16.1
90°-180°	1427.0	17.6
0°-180°	8092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2499	2499	2499	2499	2499	
5°	2501	2494	2473	2491	2488	238
15°	2438	2435	2385	2344	2319	689
25°	2304	2270	2149	2096	2083	1062
35°	2080	2025	1885	1812	1781	1299
45°	1746	1703	1558	1404	1224	1350
55°	1361	1340	1181	938	841	1217
65°	958	935	786	611	578	947
75°	532	514	413	329	319	564
85°	147	129	101	96	96	157
90°	8	36	61	76	81	15
95°	81	109	124	182	198	78
105°	190	198	284	380	403	197
115°	236	200	302	416	456	229
125°	218	193	261	383	431	194
135°	177	193	210	284	327	138
145°	144	167	182	195	208	92
155°	132	139	150	162	165	61
165°	129	134	139	144	144	37
175°	127	129	132	134	137	12
180°	124	124	124	124	124	



TEST NUMBER: P520631

CATALOG NUMBER: 8WSLA-100-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2498.6	2498.6	2498.6	2498.6	2498.6
2.5°	2506.2	2501.1	2480.8	2501.1	2496.1
5°	2501.1	2493.5	2473.2	2491.0	2488.4
7.5°	2491.0	2485.9	2463.1	2483.4	2480.8
10°	2478.3	2470.7	2450.4	2465.6	2455.5
12.5°	2460.6	2455.5	2425.1	2412.4	2392.2
15°	2437.8	2435.2	2384.6	2344.0	2318.7
17.5°	2412.4	2402.3	2331.3	2283.2	2260.4
20°	2382.0	2366.8	2273.1	2217.3	2194.5
22.5°	2346.5	2323.7	2214.8	2161.6	2138.7
25°	2303.5	2270.5	2148.9	2095.7	2083.0
27.5°	2255.3	2217.3	2088.1	2034.9	2019.6
30°	2204.6	2156.5	2019.6	1969.0	1941.1
32.5°	2141.3	2095.7	1953.8	1895.5	1865.1
35°	2080.5	2024.7	1885.3	1811.9	1781.4
37.5°	2007.0	1951.2	1806.8	1733.3	1697.8
40°	1928.4	1872.7	1730.8	1644.6	1599.0
42.5°	1842.3	1791.6	1647.1	1543.2	1454.6
45°	1746.0	1702.9	1558.4	1403.9	1224.0
47.5°	1657.3	1616.7	1469.8	1269.6	1084.6
50°	1563.5	1525.5	1378.5	1142.9	990.8
52.5°	1459.6	1431.7	1279.7	1033.9	912.3
55°	1360.8	1340.5	1180.9	937.6	841.3
57.5°	1256.9	1236.6	1082.0	846.4	770.4
60°	1160.6	1140.3	983.2	765.3	704.5
62.5°	1064.3	1036.4	886.9	686.7	636.0
65°	957.9	935.1	785.6	610.7	577.8
67.5°	851.4	831.2	691.8	539.8	516.9
70°	745.0	727.3	595.5	471.3	458.7
72.5°	641.1	618.3	509.3	402.9	397.8
75°	532.2	514.4	413.1	329.4	319.3
77.5°	428.3	413.1	324.4	250.9	243.3
80°	326.9	311.7	233.1	182.5	190.1
82.5°	240.7	220.5	157.1	141.9	149.5
85°	147.0	129.2	101.4	96.3	96.3
87.5°	50.7	48.1	45.6	53.2	55.7
90°	7.6	35.5	60.8	76.0	81.1
92.5°	43.1	63.4	83.6	98.8	103.9
95°	81.1	109.0	124.2	182.5	197.7
97.5°	111.5	144.4	162.2	215.4	230.6
100°	141.9	172.3	228.1	255.9	273.7
102.5°	167.2	190.1	268.6	324.4	334.5
105°	190.1	197.7	283.8	380.1	402.9



TEST NUMBER: P520631

CATALOG NUMBER: 8WSLA-100-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	228.1	202.7	304.1	413.1	453.6
115°	235.7	200.2	301.6	415.6	456.1
117.5°	235.7	200.2	294.0	415.6	456.1
120°	230.6	202.7	283.8	410.5	453.6
122.5°	225.5	197.7	273.7	400.4	443.5
125°	217.9	192.6	261.0	382.6	430.8
127.5°	205.3	197.7	248.3	359.8	408.0
130°	195.1	200.2	233.1	337.0	385.2
132.5°	187.5	195.1	217.9	311.7	354.8
135°	177.4	192.6	210.3	283.8	326.9
137.5°	169.8	185.0	197.7	258.5	294.0
140°	162.2	179.9	185.0	225.5	255.9
142.5°	152.0	172.3	174.9	210.3	223.0
145°	144.4	167.2	182.5	195.1	207.8
147.5°	136.8	157.1	177.4	179.9	192.6
150°	134.3	147.0	169.8	172.3	177.4
152.5°	131.8	141.9	157.1	172.3	174.9
155°	131.8	139.4	149.5	162.2	164.7
157.5°	129.2	139.4	144.4	154.6	157.1
160°	129.2	136.8	141.9	149.5	152.0
162.5°	129.2	136.8	139.4	147.0	149.5
165°	129.2	134.3	139.4	144.4	144.4
167.5°	129.2	134.3	136.8	141.9	141.9
170°	129.2	131.8	136.8	139.4	139.4
172.5°	126.7	131.8	134.3	139.4	139.4
175°	126.7	129.2	131.8	134.3	136.8
177.5°	121.6	129.2	131.8	134.3	131.8
180°	124.2	124.2	124.2	124.2	124.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	207.8	200.2	294.0	400.4	433.3
110°	220.5	202.7	301.6	408.0	448.5



(END OF REPORT)