

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: P520733

Luminaire Tested: **8WSLA-200-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: P520733
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-200-L850-UPL15-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

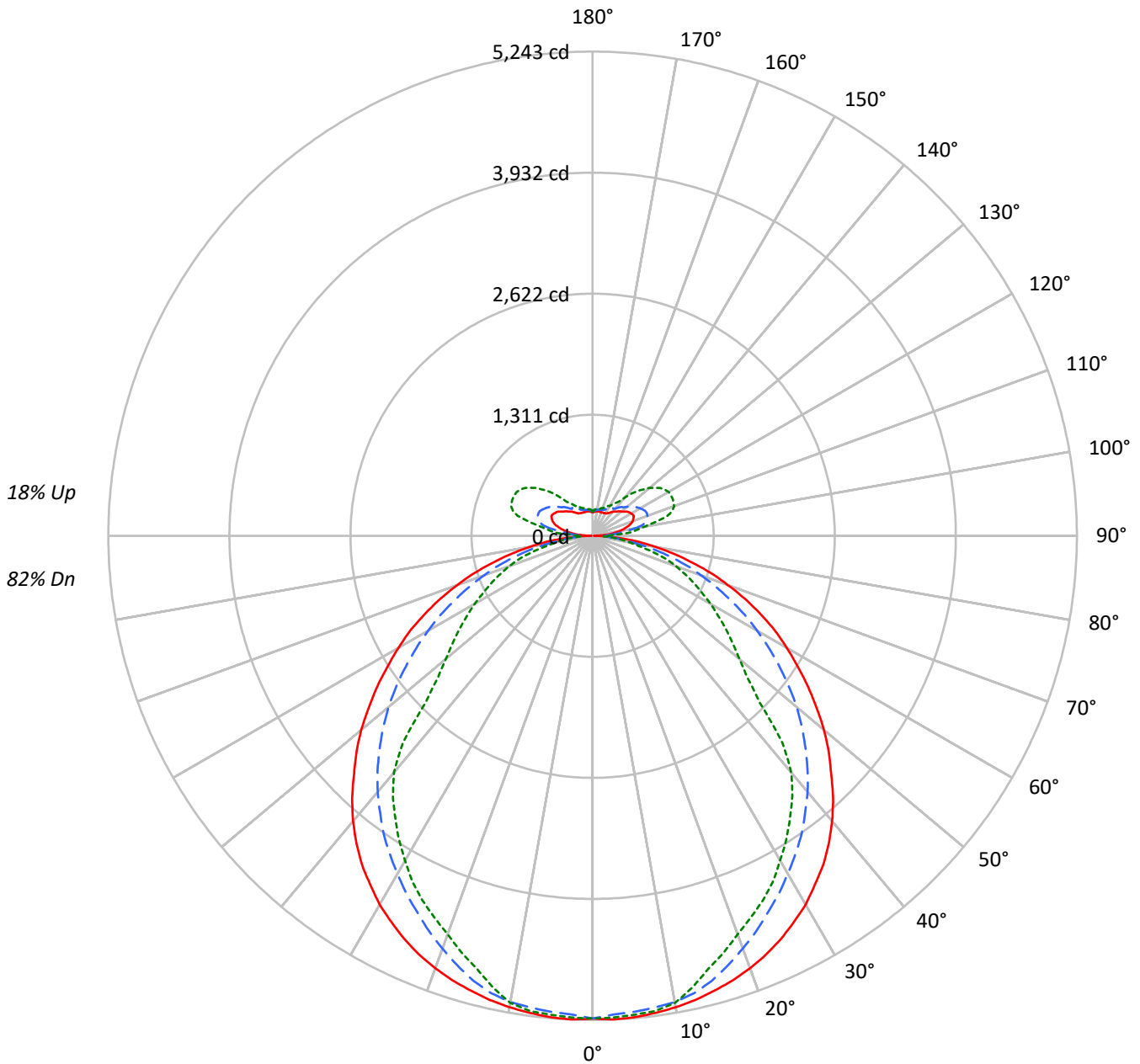
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16928.0 lumens
Efficiency: N/A
Efficacy: 111.1 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): 152.3
Input Voltage (V): NR
Input Current (A_{in}): 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°	14065	14065	14065
5°	14134	13976	14062
10°	14167	14007	14036
15°	14207	13897	13513
20°	14270	13617	13147
25°	14308	13347	12938
30°	14331	13128	12618
35°	14297	12956	12243
40°	14171	12719	11750
45°	13900	12407	9744
50°	13693	12073	8677
55°	13356	11590	8257
60°	13067	11070	7931
65°	12759	10464	7696
70°	12262	9802	7549
75°	11574	8984	6944
80°	10597	7558	6161
85°	9494	6546	6218



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.4	2.9
10°-20°	1407.2	8.3
20°-30°	2100.1	12.4
30°-40°	2502.3	14.8
40°-50°	2488.9	14.7
50°-60°	2133.1	12.6
60°-70°	1606.5	9.5
70°-80°	930.4	5.5
80°-90°	279.6	1.7
90°-100°	300.2	1.8
100°-110°	616.5	3.6
110°-120°	651.9	3.9
120°-130°	543.8	3.2
130°-140°	379.9	2.2
140°-150°	236.4	1.4
150°-160°	146.6	0.9
160°-170°	82.6	0.5
170°-180°	26.6	0.2
0°-30°	4002.7	23.6
0°-40°	6504.9	38.4
0°-60°	11127.0	65.7
0°-90°	13943.6	82.4
90°-120°	1568.6	9.3
90°-150°	2728.7	16.1
90°-180°	2984.0	17.6
0°-180°	16928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5227	5227	5227	5227	5227	
5°	5232	5216	5174	5211	5206	498
15°	5100	5094	4988	4904	4850	1441
25°	4819	4750	4495	4384	4358	2222
35°	4352	4236	3944	3790	3727	2718
45°	3652	3562	3260	2937	2560	2824
55°	2847	2804	2470	1961	1760	2545
65°	2004	1956	1643	1278	1209	1981
75°	1113	1076	864	689	668	1179
85°	308	270	212	201	201	328
90°	16	74	127	159	170	31
95°	170	228	260	382	414	162
105°	398	414	594	795	843	412
115°	493	419	631	869	954	480
125°	456	403	546	800	901	405
135°	371	403	440	594	684	290
145°	302	350	382	408	435	192
155°	276	292	313	339	345	127
165°	270	281	292	302	302	77
175°	265	270	276	281	286	25
180°	260	260	260	260	260	



TEST NUMBER: P520733

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5226.9	5226.9	5226.9	5226.9	5226.9
2.5°	5242.8	5232.2	5189.8	5232.2	5221.6
5°	5232.2	5216.3	5173.9	5211.0	5205.7
7.5°	5211.0	5200.4	5152.7	5195.1	5189.8
10°	5184.5	5168.6	5126.2	5158.0	5136.8
12.5°	5147.4	5136.8	5073.2	5046.7	5004.2
15°	5099.7	5094.4	4988.3	4903.5	4850.5
17.5°	5046.7	5025.5	4877.0	4776.3	4728.6
20°	4983.0	4951.2	4755.1	4638.5	4590.8
22.5°	4908.8	4861.1	4633.2	4521.8	4474.1
25°	4818.7	4749.8	4495.3	4384.0	4357.5
27.5°	4718.0	4638.5	4368.1	4256.8	4225.0
30°	4612.0	4511.2	4225.0	4119.0	4060.7
32.5°	4479.4	4384.0	4087.2	3965.2	3901.6
35°	4352.2	4235.6	3944.0	3790.3	3726.7
37.5°	4198.5	4081.9	3779.7	3626.0	3551.7
40°	4034.1	3917.5	3620.7	3440.4	3345.0
42.5°	3853.9	3747.9	3445.7	3228.4	3042.8
45°	3652.5	3562.3	3260.2	2936.8	2560.4
47.5°	3466.9	3382.1	3074.6	2655.9	2268.9
50°	3270.8	3191.3	2883.8	2390.8	2072.7
52.5°	3053.4	2995.1	2677.1	2162.9	1908.4
55°	2846.7	2804.3	2470.3	1961.4	1760.0
57.5°	2629.4	2586.9	2263.6	1770.6	1611.5
60°	2427.9	2385.5	2056.8	1600.9	1473.7
62.5°	2226.5	2168.2	1855.4	1436.6	1330.6
65°	2003.8	1956.1	1643.3	1277.6	1208.7
67.5°	1781.2	1738.8	1447.2	1129.1	1081.4
70°	1558.5	1521.4	1245.8	986.0	959.5
72.5°	1341.2	1293.5	1065.5	842.9	832.3
75°	1113.2	1076.1	864.1	689.1	667.9
77.5°	895.9	864.1	678.5	524.8	508.9
80°	683.8	652.0	487.7	381.7	397.6
82.5°	503.6	461.2	328.7	296.9	312.8
85°	307.5	270.4	212.0	201.4	201.4
87.5°	106.0	100.7	95.4	111.3	116.6
90°	15.9	74.2	127.2	159.0	169.6
92.5°	90.1	132.5	174.9	206.7	217.3
95°	169.6	227.9	259.8	381.7	413.5
97.5°	233.2	302.2	339.3	450.6	482.4
100°	296.9	360.5	477.1	535.4	572.5
102.5°	349.9	397.6	561.9	678.5	699.7
105°	397.6	413.5	593.7	795.2	842.9



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CATALOG NUMBER: 8WSLA-200-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	477.1	424.1	636.1	864.1	948.9
115°	493.0	418.8	630.8	869.4	954.2
117.5°	493.0	418.8	614.9	869.4	954.2
120°	482.4	424.1	593.7	858.8	948.9
122.5°	471.8	413.5	572.5	837.6	927.7
125°	455.9	402.9	546.0	800.5	901.2
127.5°	429.4	413.5	519.5	752.8	853.5
130°	408.2	418.8	487.7	705.0	805.8
132.5°	392.3	408.2	455.9	652.0	742.2
135°	371.1	402.9	440.0	593.7	683.8
137.5°	355.2	387.0	413.5	540.7	614.9
140°	339.3	376.4	387.0	471.8	535.4
142.5°	318.1	360.5	365.8	440.0	466.5
145°	302.2	349.9	381.7	408.2	434.7
147.5°	286.3	328.7	371.1	376.4	402.9
150°	281.0	307.5	355.2	360.5	371.1
152.5°	275.7	296.9	328.7	360.5	365.8
155°	275.7	291.6	312.8	339.3	344.6
157.5°	270.4	291.6	302.2	323.4	328.7
160°	270.4	286.3	296.9	312.8	318.1
162.5°	270.4	286.3	291.6	307.5	312.8
165°	270.4	281.0	291.6	302.2	302.2
167.5°	270.4	281.0	286.3	296.9	296.9
170°	270.4	275.7	286.3	291.6	291.6
172.5°	265.1	275.7	281.0	291.6	291.6
175°	265.1	270.4	275.7	281.0	286.3
177.5°	254.5	270.4	275.7	281.0	275.7
180°	259.8	259.8	259.8	259.8	259.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	434.7	418.8	614.9	837.6	906.5
110°	461.2	424.1	630.8	853.5	938.3



(END OF REPORT)