

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: P520643

Luminaire Tested: **8WSLA-100-L935-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: P520643
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-L935-UPL15-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

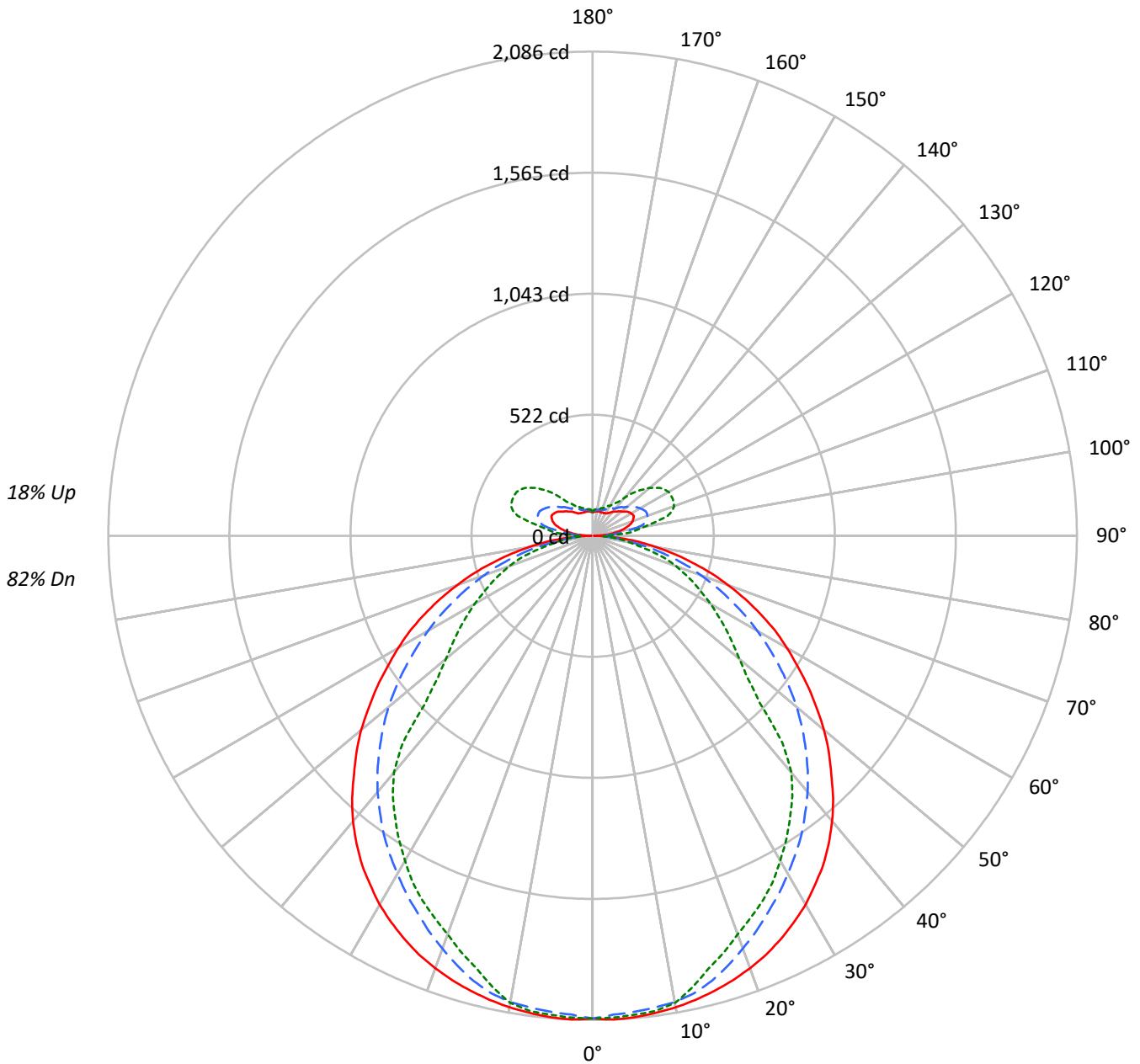
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6736.0 lumens
Efficiency: N/A
Efficacy: 106.2 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 (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°	5597	5597	5597
5°	5624	5561	5596
10°	5637	5574	5585
15°	5653	5530	5377
20°	5678	5419	5231
25°	5693	5311	5148
30°	5702	5224	5021
35°	5689	5156	4871
40°	5639	5061	4676
45°	5531	4937	3878
50°	5449	4804	3453
55°	5315	4612	3286
60°	5200	4405	3156
65°	5077	4164	3062
70°	4880	3900	3004
75°	4606	3575	2764
80°	4217	3008	2452
85°	3776	2606	2476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.1	2.9
10°-20°	559.9	8.3
20°-30°	835.7	12.4
30°-40°	995.7	14.8
40°-50°	990.4	14.7
50°-60°	848.8	12.6
60°-70°	639.3	9.5
70°-80°	370.2	5.5
80°-90°	111.3	1.7
90°-100°	119.5	1.8
100°-110°	245.3	3.6
110°-120°	259.4	3.9
120°-130°	216.4	3.2
130°-140°	151.2	2.2
140°-150°	94.1	1.4
150°-160°	58.3	0.9
160°-170°	32.8	0.5
170°-180°	10.6	0.2
0°-30°	1592.7	23.6
0°-40°	2588.4	38.4
0°-60°	4427.7	65.7
0°-90°	5548.4	82.4
90°-120°	624.1	9.3
90°-150°	1085.8	16.1
90°-180°	1188.0	17.6
0°-180°	6736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2080	2080	2080	2080	2080	
5°	2082	2076	2059	2074	2072	198
15°	2029	2027	1985	1951	1930	573
25°	1918	1890	1789	1744	1734	884
35°	1732	1685	1569	1508	1483	1082
45°	1453	1418	1297	1169	1019	1124
55°	1133	1116	983	780	700	1013
65°	797	778	654	508	481	788
75°	443	428	344	274	266	469
85°	122	108	84	80	80	130
90°	6	30	51	63	68	12
95°	68	91	103	152	164	65
105°	158	164	236	316	335	164
115°	196	167	251	346	380	191
125°	181	160	217	318	359	161
135°	148	160	175	236	272	115
145°	120	139	152	162	173	76
155°	110	116	124	135	137	51
165°	108	112	116	120	120	31
175°	106	108	110	112	114	10
180°	103	103	103	103	103	



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CATALOG NUMBER: 8WSLA-100-L935-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2079.9	2079.9	2079.9	2079.9	2079.9
2.5°	2086.2	2082.0	2065.1	2082.0	2077.8
5°	2082.0	2075.7	2058.8	2073.6	2071.5
7.5°	2073.6	2069.3	2050.4	2067.2	2065.1
10°	2063.0	2056.7	2039.8	2052.5	2044.0
12.5°	2048.2	2044.0	2018.7	2008.2	1991.3
15°	2029.3	2027.2	1985.0	1951.2	1930.1
17.5°	2008.2	1999.7	1940.7	1900.6	1881.6
20°	1982.9	1970.2	1892.2	1845.7	1826.8
22.5°	1953.3	1934.3	1843.6	1799.3	1780.4
25°	1917.5	1890.0	1788.8	1744.5	1733.9
27.5°	1877.4	1845.7	1738.2	1693.9	1681.2
30°	1835.2	1795.1	1681.2	1639.0	1615.8
32.5°	1782.5	1744.5	1626.4	1577.8	1552.5
35°	1731.8	1685.4	1569.4	1508.2	1482.9
37.5°	1670.7	1624.3	1504.0	1442.8	1413.3
40°	1605.3	1558.9	1440.7	1369.0	1331.0
42.5°	1533.5	1491.4	1371.1	1284.6	1210.8
45°	1453.4	1417.5	1297.3	1168.6	1018.9
47.5°	1379.6	1345.8	1223.5	1056.8	902.8
50°	1301.5	1269.9	1147.5	951.3	824.8
52.5°	1215.0	1191.8	1065.3	860.6	759.4
55°	1132.8	1115.9	983.0	780.5	700.3
57.5°	1046.3	1029.4	900.7	704.5	641.3
60°	966.1	949.2	818.5	637.0	586.4
62.5°	886.0	862.8	738.3	571.7	529.5
65°	797.4	778.4	653.9	508.4	480.9
67.5°	708.8	691.9	575.9	449.3	430.3
70°	620.2	605.4	495.7	392.4	381.8
72.5°	533.7	514.7	424.0	335.4	331.2
75°	443.0	428.2	343.8	274.2	265.8
77.5°	356.5	343.8	270.0	208.8	202.5
80°	272.1	259.5	194.1	151.9	158.2
82.5°	200.4	183.5	130.8	118.1	124.5
85°	122.3	107.6	84.4	80.2	80.2
87.5°	42.2	40.1	38.0	44.3	46.4
90°	6.3	29.5	50.6	63.3	67.5
92.5°	35.9	52.7	69.6	82.3	86.5
95°	67.5	90.7	103.4	151.9	164.5
97.5°	92.8	120.2	135.0	179.3	192.0
100°	118.1	143.4	189.8	213.1	227.8
102.5°	139.2	158.2	223.6	270.0	278.4
105°	158.2	164.5	236.3	316.4	335.4



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CATALOG NUMBER: 8WSLA-100-L935-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.8	168.8	253.1	343.8	377.6
115°	196.2	166.6	251.0	345.9	379.7
117.5°	196.2	166.6	244.7	345.9	379.7
120°	192.0	168.8	236.3	341.7	377.6
122.5°	187.7	164.5	227.8	333.3	369.1
125°	181.4	160.3	217.3	318.5	358.6
127.5°	170.9	164.5	206.7	299.5	339.6
130°	162.4	166.6	194.1	280.6	320.6
132.5°	156.1	162.4	181.4	259.5	295.3
135°	147.7	160.3	175.1	236.3	272.1
137.5°	141.3	154.0	164.5	215.2	244.7
140°	135.0	149.8	154.0	187.7	213.1
142.5°	126.6	143.4	145.6	175.1	185.6
145°	120.2	139.2	151.9	162.4	173.0
147.5°	113.9	130.8	147.7	149.8	160.3
150°	111.8	122.3	141.3	143.4	147.7
152.5°	109.7	118.1	130.8	143.4	145.6
155°	109.7	116.0	124.5	135.0	137.1
157.5°	107.6	116.0	120.2	128.7	130.8
160°	107.6	113.9	118.1	124.5	126.6
162.5°	107.6	113.9	116.0	122.3	124.5
165°	107.6	111.8	116.0	120.2	120.2
167.5°	107.6	111.8	113.9	118.1	118.1
170°	107.6	109.7	113.9	116.0	116.0
172.5°	105.5	109.7	111.8	116.0	116.0
175°	105.5	107.6	109.7	111.8	113.9
177.5°	101.3	107.6	109.7	111.8	109.7
180°	103.4	103.4	103.4	103.4	103.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	173.0	166.6	244.7	333.3	360.7
110°	183.5	168.8	251.0	339.6	373.4



(END OF REPORT)