

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: P520686

Luminaire Tested: **8WSLA-150-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: P520686
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-150-L850-UPL8-UNV-U
Description: 8 FOOT, 3000 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

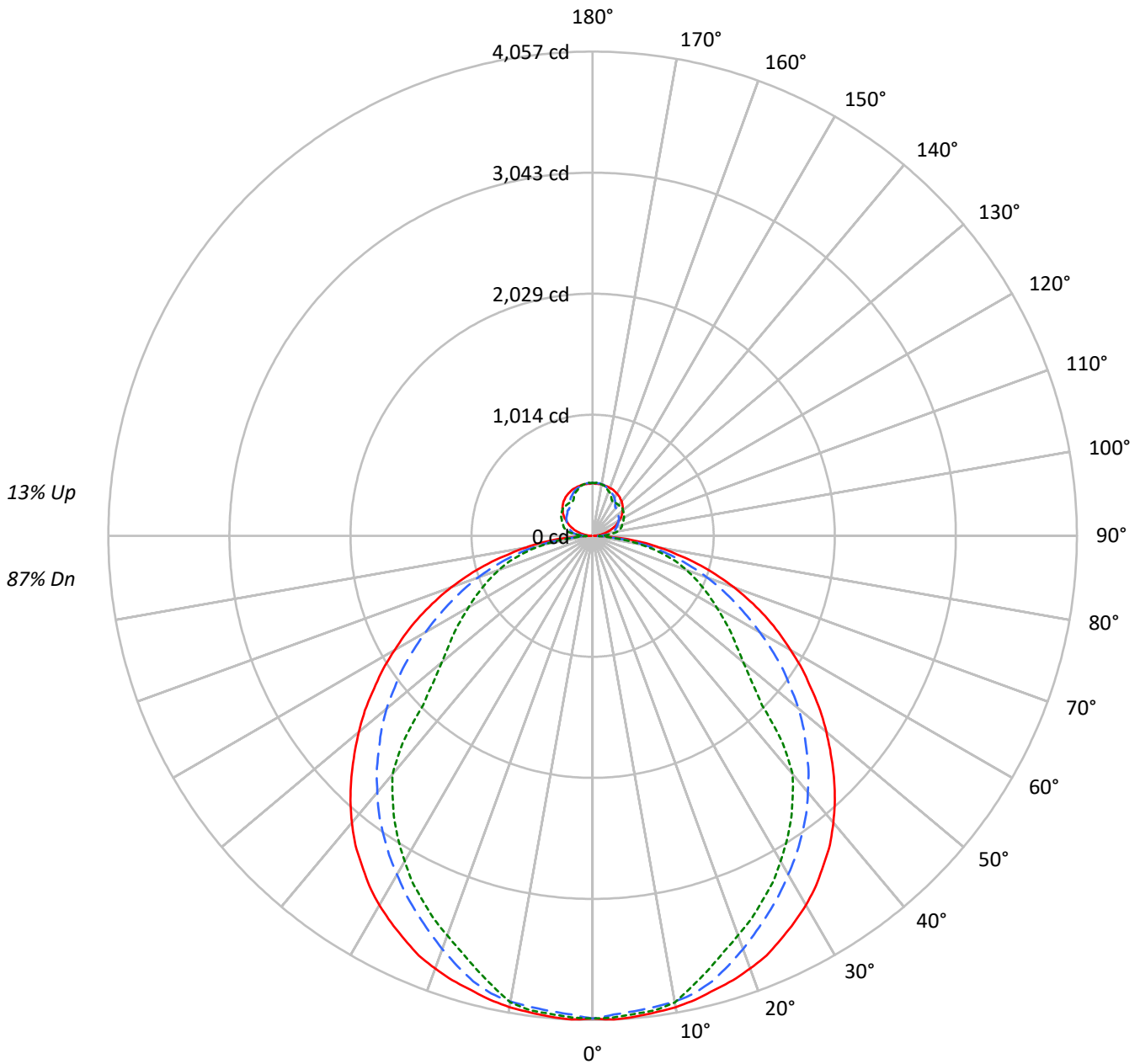
Lumens per Lamp: N/A
Luminaire Lumens: 12590.0 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 93.6
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				20				
RC	80				70				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			87
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73			73
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61			61
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51			51
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44			44
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38			38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33			33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30			30
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26			26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24			24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22			22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10886	10886	10886
5°	10928	10802	10865
10°	10959	10832	10847
15°	10978	10768	10476
20°	11052	10552	10201
25°	11078	10353	10007
30°	11105	10183	9785
35°	11071	10039	9523
40°	11021	9856	9160
45°	10876	9636	7642
50°	10698	9431	6896
55°	10487	9121	6636
60°	10306	8709	6454
65°	10155	8339	6449
70°	9892	8014	6549
75°	9441	7625	6597
80°	8839	6856	6134
85°	8086	4854	4134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.0	3.0
10°-20°	1088.8	8.6
20°-30°	1626.9	12.9
30°-40°	1942.1	15.4
40°-50°	1942.3	15.4
50°-60°	1680.9	13.4
60°-70°	1290.2	10.2
70°-80°	790.6	6.3
80°-90°	222.6	1.8
90°-100°	125.8	1.0
100°-110°	199.7	1.6
110°-120°	233.4	1.9
120°-130°	252.0	2.0
130°-140°	248.3	2.0
140°-150°	219.7	1.7
150°-160°	180.8	1.4
160°-170°	121.0	1.0
170°-180°	42.1	0.3
0°-30°	3098.7	24.6
0°-40°	5040.8	40.0
0°-60°	8663.9	68.8
0°-90°	10967.3	87.1
90°-120°	558.9	4.4
90°-150°	1278.9	10.2
90°-180°	1623.0	12.9
0°-180°	12590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4046	4046	4046	4046	4046	
5°	4046	4034	3999	4028	4022	385
15°	3941	3935	3865	3795	3760	1115
25°	3731	3685	3487	3394	3370	1721
35°	3370	3283	3056	2945	2899	2110
45°	2858	2776	2532	2305	2008	2204
55°	2235	2183	1944	1554	1414	2004
65°	1595	1537	1310	1054	1013	1575
75°	908	862	733	634	634	958
85°	262	215	157	134	134	274
90°	12	41	64	82	87	18
95°	47	99	134	140	140	46
105°	134	140	198	233	244	141
115°	221	186	233	268	285	216
125°	297	239	268	308	320	264
135°	355	320	297	326	343	274
145°	396	378	332	326	338	247
155°	419	413	390	372	367	193
165°	431	437	425	425	425	122
175°	437	442	442	448	448	42
180°	442	442	442	442	442	



TEST NUMBER: P520686

CATALOG NUMBER: 8WSLA-150-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4045.5	4045.5	4045.5	4045.5	4045.5
2.5°	4057.1	4045.5	4016.4	4045.5	4039.6
5°	4045.5	4033.8	3998.9	4028.0	4022.2
7.5°	4028.0	4016.4	3981.4	4016.4	4010.5
10°	4010.5	3998.9	3964.0	3987.3	3969.8
12.5°	3981.4	3969.8	3929.0	3899.9	3865.0
15°	3940.7	3934.9	3865.0	3795.2	3760.2
17.5°	3905.8	3888.3	3777.7	3696.2	3655.5
20°	3859.2	3830.1	3684.6	3591.4	3562.3
22.5°	3806.8	3760.2	3585.6	3498.3	3475.0
25°	3731.1	3684.6	3486.7	3393.5	3370.2
27.5°	3655.5	3597.3	3387.7	3294.6	3271.3
30°	3574.0	3492.5	3277.1	3189.8	3149.1
32.5°	3480.8	3399.4	3172.3	3073.4	3026.8
35°	3370.2	3282.9	3055.9	2945.3	2898.8
37.5°	3265.5	3172.3	2939.5	2817.3	2753.2
40°	3137.4	3044.3	2805.6	2671.8	2607.7
42.5°	3003.5	2916.2	2677.6	2514.6	2357.4
45°	2858.0	2776.5	2532.1	2305.0	2008.2
47.5°	2706.7	2636.8	2398.2	2089.7	1804.5
50°	2555.3	2485.5	2252.7	1885.9	1647.3
52.5°	2404.0	2345.8	2089.7	1717.1	1519.2
55°	2235.2	2182.8	1944.2	1554.2	1414.5
57.5°	2083.9	2031.5	1775.3	1420.3	1303.9
60°	1915.0	1868.5	1618.2	1286.4	1199.1
62.5°	1757.9	1705.5	1461.0	1170.0	1106.0
65°	1594.9	1536.7	1309.7	1053.6	1012.8
67.5°	1426.1	1367.9	1164.2	948.8	925.5
70°	1257.3	1210.7	1018.6	844.0	832.4
72.5°	1082.7	1030.3	873.1	745.1	745.1
75°	908.0	861.5	733.4	634.5	634.5
77.5°	727.6	704.3	587.9	518.1	523.9
80°	570.4	541.3	442.4	395.8	395.8
82.5°	419.1	384.2	296.9	261.9	273.6
85°	261.9	215.4	157.2	133.9	133.9
87.5°	81.5	64.0	46.6	52.4	52.4
90°	11.6	40.7	64.0	81.5	87.3
92.5°	29.1	75.7	93.1	110.6	116.4
95°	46.6	99.0	133.9	139.7	139.7
97.5°	64.0	110.6	163.0	186.3	186.3
100°	87.3	116.4	174.6	209.5	215.4
102.5°	110.6	128.1	186.3	221.2	232.8
105°	133.9	139.7	197.9	232.8	244.5



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CATALOG NUMBER: 8WSLA-150-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	197.9	174.6	221.2	261.9	273.6
115°	221.2	186.3	232.8	267.8	285.2
117.5°	238.7	203.7	244.5	279.4	291.0
120°	256.1	215.4	250.3	291.0	302.7
122.5°	279.4	227.0	261.9	296.9	314.3
125°	296.9	238.7	267.8	308.5	320.1
127.5°	314.3	261.9	273.6	314.3	326.0
130°	326.0	285.2	279.4	320.1	331.8
132.5°	343.4	302.7	285.2	326.0	337.6
135°	355.1	320.1	296.9	326.0	343.4
137.5°	366.7	337.6	296.9	326.0	337.6
140°	378.4	355.1	302.7	326.0	337.6
142.5°	384.2	366.7	308.5	326.0	337.6
145°	395.8	378.4	331.8	326.0	337.6
147.5°	401.6	390.0	349.2	326.0	337.6
150°	407.5	401.6	366.7	331.8	331.8
152.5°	413.3	407.5	378.4	355.1	343.4
155°	419.1	413.3	390.0	372.5	366.7
157.5°	424.9	424.9	401.6	390.0	384.2
160°	424.9	430.7	413.3	401.6	395.8
162.5°	430.7	436.6	419.1	413.3	407.5
165°	430.7	436.6	424.9	424.9	424.9
167.5°	436.6	442.4	436.6	430.7	430.7
170°	436.6	442.4	436.6	436.6	436.6
172.5°	436.6	442.4	442.4	442.4	442.4
175°	436.6	442.4	442.4	448.2	448.2
177.5°	436.6	442.4	442.4	442.4	442.4
180°	442.4	442.4	442.4	442.4	442.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	157.2	151.3	203.7	244.5	256.1
110°	174.6	163.0	215.4	250.3	261.9



(END OF REPORT)