

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: P520688

Luminaire Tested: **8WSLA-150-L930-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: P520688
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-150-L930-UPL15-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

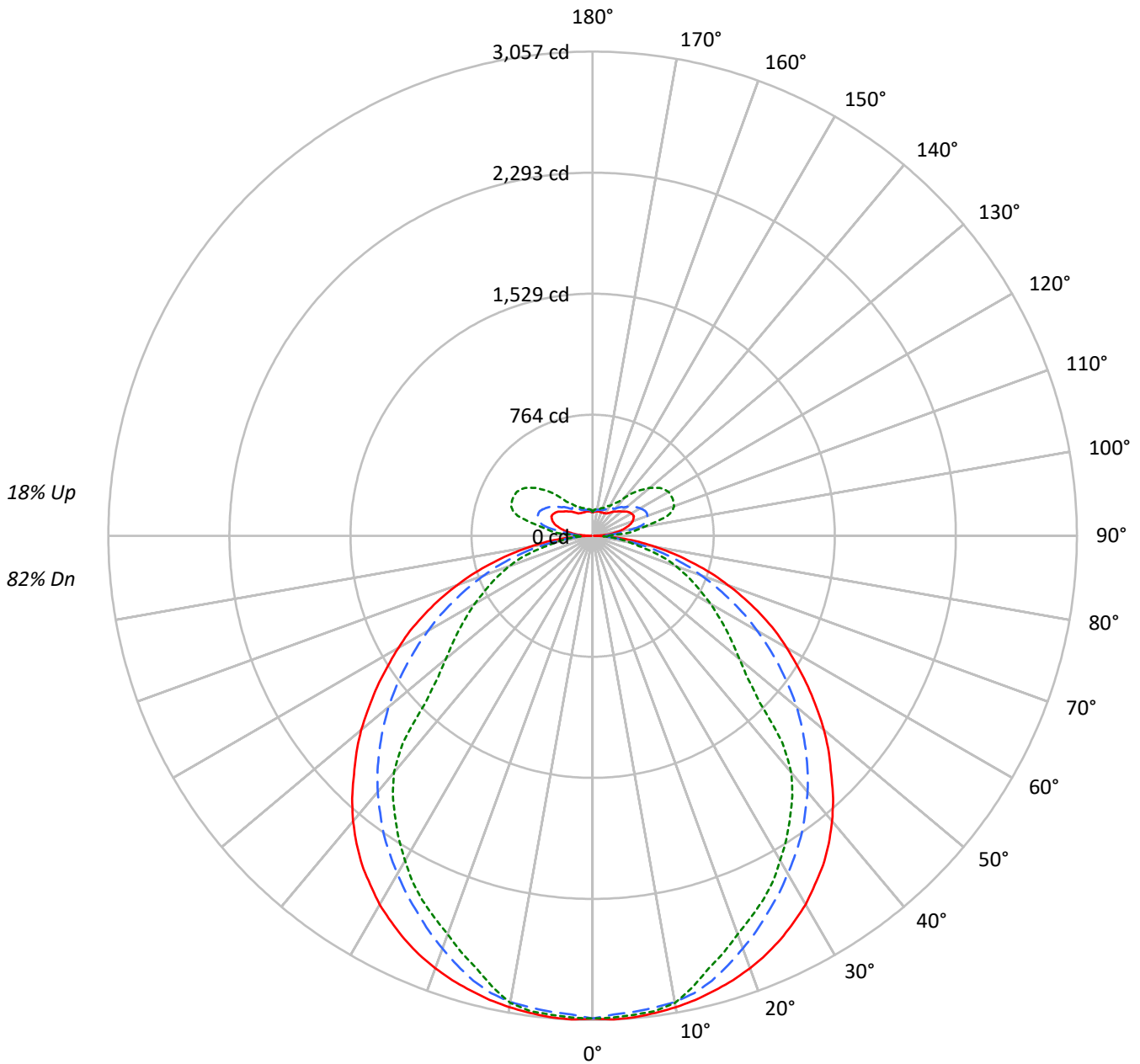
Lumens per Lamp: N/A
Luminaire Lumens: 9870.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 93.6
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

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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°	8201	8201	8201
5°	8241	8149	8199
10°	8260	8167	8184
15°	8284	8103	7879
20°	8320	7940	7665
25°	8342	7782	7544
30°	8355	7654	7357
35°	8336	7554	7138
40°	8263	7416	6851
45°	8104	7234	5681
50°	7984	7039	5059
55°	7787	6757	4814
60°	7619	6455	4625
65°	7439	6101	4487
70°	7150	5715	4401
75°	6749	5238	4049
80°	6179	4407	3592
85°	5536	3816	3628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.8	2.9
10°-20°	820.5	8.3
20°-30°	1224.5	12.4
30°-40°	1459.0	14.8
40°-50°	1451.2	14.7
50°-60°	1243.7	12.6
60°-70°	936.7	9.5
70°-80°	542.5	5.5
80°-90°	163.0	1.7
90°-100°	175.0	1.8
100°-110°	359.5	3.6
110°-120°	380.1	3.9
120°-130°	317.1	3.2
130°-140°	221.5	2.2
140°-150°	137.9	1.4
150°-160°	85.5	0.9
160°-170°	48.1	0.5
170°-180°	15.5	0.2
0°-30°	2333.8	23.6
0°-40°	3792.8	38.4
0°-60°	6487.7	65.7
0°-90°	8129.9	82.4
90°-120°	914.6	9.3
90°-150°	1591.0	16.1
90°-180°	1740.0	17.6
0°-180°	9870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3048	3048	3048	3048	3048	
5°	3051	3041	3017	3038	3035	290
15°	2973	2970	2908	2859	2828	840
25°	2810	2769	2621	2556	2541	1295
35°	2538	2470	2300	2210	2173	1585
45°	2130	2077	1901	1712	1493	1646
55°	1660	1635	1440	1144	1026	1484
65°	1168	1140	958	745	705	1155
75°	649	627	504	402	389	688
85°	179	158	124	118	118	191
90°	9	43	74	93	99	18
95°	99	133	152	222	241	95
105°	232	241	346	464	491	240
115°	287	244	368	507	556	280
125°	266	235	318	467	525	236
135°	216	235	256	346	399	169
145°	176	204	222	238	254	112
155°	161	170	182	198	201	74
165°	158	164	170	176	176	45
175°	154	158	161	164	167	15
180°	152	152	152	152	152	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3047.6	3047.6	3047.6	3047.6	3047.6
2.5°	3056.9	3050.7	3025.9	3050.7	3044.5
5°	3050.7	3041.4	3016.7	3038.3	3035.2
7.5°	3038.3	3032.1	3004.3	3029.0	3025.9
10°	3022.9	3013.6	2988.9	3007.4	2995.0
12.5°	3001.2	2995.0	2957.9	2942.5	2917.8
15°	2973.4	2970.3	2908.5	2859.0	2828.1
17.5°	2942.5	2930.1	2843.6	2784.9	2757.0
20°	2905.4	2886.9	2772.5	2704.5	2676.7
22.5°	2862.1	2834.3	2701.4	2636.5	2608.7
25°	2809.6	2769.4	2621.0	2556.1	2540.7
27.5°	2750.9	2704.5	2546.9	2482.0	2463.4
30°	2689.0	2630.3	2463.4	2401.6	2367.6
32.5°	2611.8	2556.1	2383.0	2312.0	2274.9
35°	2537.6	2469.6	2299.6	2210.0	2172.9
37.5°	2448.0	2380.0	2203.8	2114.1	2070.9
40°	2352.1	2284.1	2111.1	2006.0	1950.3
42.5°	2247.1	2185.2	2009.1	1882.3	1774.2
45°	2129.6	2077.1	1900.9	1712.3	1492.9
47.5°	2021.4	1972.0	1792.7	1548.5	1322.9
50°	1907.1	1860.7	1681.4	1394.0	1208.5
52.5°	1780.3	1746.3	1560.9	1261.1	1112.7
55°	1659.8	1635.1	1440.3	1143.6	1026.2
57.5°	1533.1	1508.3	1319.8	1032.3	939.6
60°	1415.6	1390.9	1199.3	933.4	859.3
62.5°	1298.2	1264.2	1081.8	837.6	775.8
65°	1168.3	1140.5	958.2	744.9	704.7
67.5°	1038.5	1013.8	843.8	658.4	630.5
70°	908.7	887.1	726.4	574.9	559.4
72.5°	782.0	754.2	621.3	491.4	485.3
75°	649.1	627.4	503.8	401.8	389.4
77.5°	522.4	503.8	395.6	306.0	296.7
80°	398.7	380.2	284.4	222.5	231.8
82.5°	293.6	268.9	191.6	173.1	182.4
85°	179.3	157.6	123.6	117.5	117.5
87.5°	61.8	58.7	55.6	64.9	68.0
90°	9.3	43.3	74.2	92.7	98.9
92.5°	52.5	77.3	102.0	120.5	126.7
95°	98.9	132.9	151.5	222.5	241.1
97.5°	136.0	176.2	197.8	262.7	281.3
100°	173.1	210.2	278.2	312.2	333.8
102.5°	204.0	231.8	327.6	395.6	408.0
105°	231.8	241.1	346.2	463.6	491.4



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CATALOG NUMBER: 8WSLA-150-L930-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.2	247.3	370.9	503.8	553.3
115°	287.4	244.2	367.8	506.9	556.4
117.5°	287.4	244.2	358.5	506.9	556.4
120°	281.3	247.3	346.2	500.7	553.3
122.5°	275.1	241.1	333.8	488.4	540.9
125°	265.8	234.9	318.4	466.7	525.4
127.5°	250.4	241.1	302.9	438.9	497.6
130°	238.0	244.2	284.4	411.1	469.8
132.5°	228.7	238.0	265.8	380.2	432.7
135°	216.4	234.9	256.5	346.2	398.7
137.5°	207.1	225.6	241.1	315.3	358.5
140°	197.8	219.5	225.6	275.1	312.2
142.5°	185.5	210.2	213.3	256.5	272.0
145°	176.2	204.0	222.5	238.0	253.5
147.5°	166.9	191.6	216.4	219.5	234.9
150°	163.8	179.3	207.1	210.2	216.4
152.5°	160.7	173.1	191.6	210.2	213.3
155°	160.7	170.0	182.4	197.8	200.9
157.5°	157.6	170.0	176.2	188.5	191.6
160°	157.6	166.9	173.1	182.4	185.5
162.5°	157.6	166.9	170.0	179.3	182.4
165°	157.6	163.8	170.0	176.2	176.2
167.5°	157.6	163.8	166.9	173.1	173.1
170°	157.6	160.7	166.9	170.0	170.0
172.5°	154.5	160.7	163.8	170.0	170.0
175°	154.5	157.6	160.7	163.8	166.9
177.5°	148.4	157.6	160.7	163.8	160.7
180°	151.5	151.5	151.5	151.5	151.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	253.5	244.2	358.5	488.4	528.5
110°	268.9	247.3	367.8	497.6	547.1



(END OF REPORT)