

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: P520764

Luminaire Tested: **8WSLA-50-L935-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: P520764  
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-50-L935-UPL8-UNV-U  
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

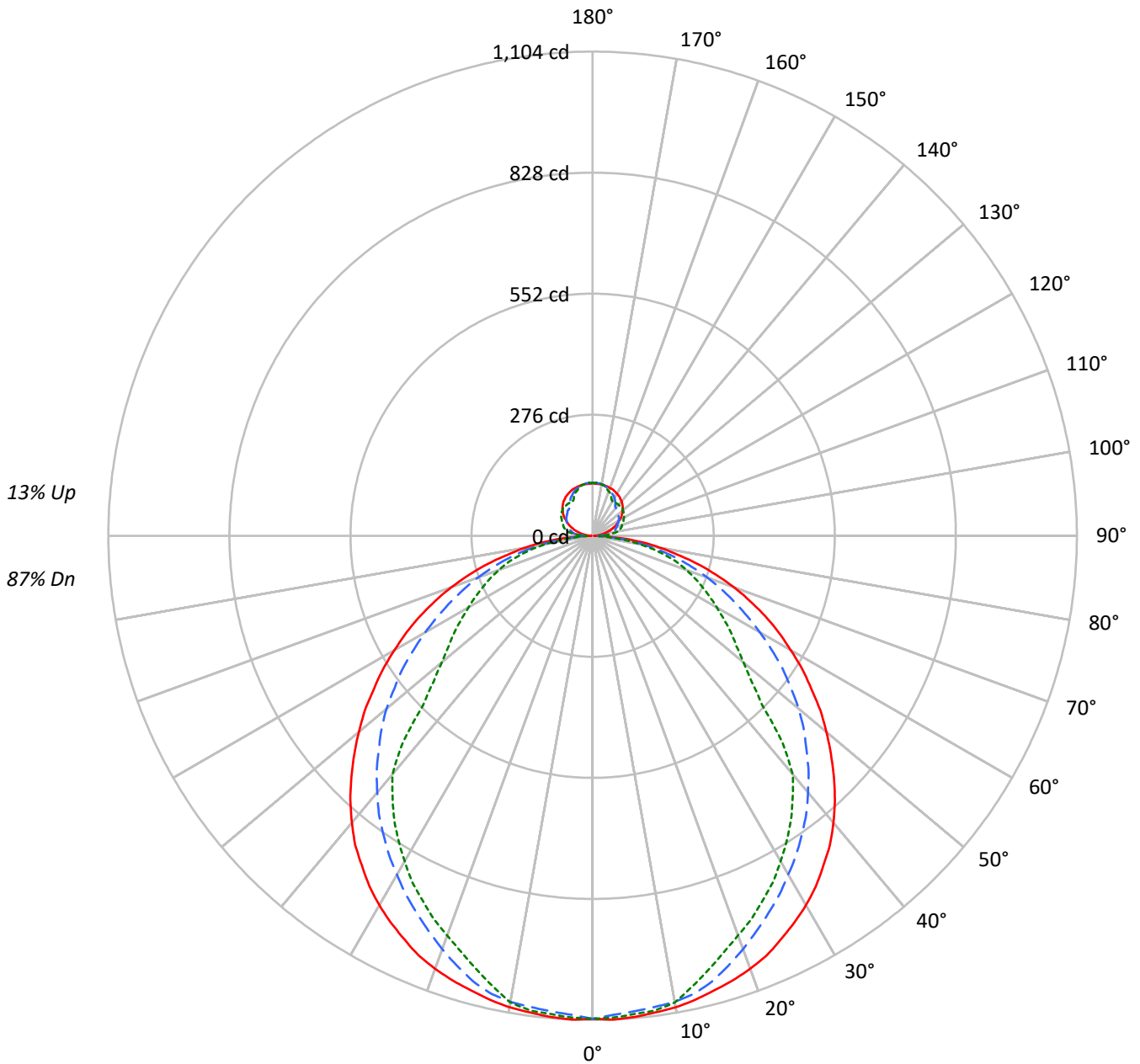
Lumens per Lamp: N/A  
Luminaire Lumens: 3427.0 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 30.5  
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				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°	2963	2963	2963
5°	2975	2940	2957
10°	2983	2948	2953
15°	2988	2931	2851
20°	3008	2872	2777
25°	3015	2818	2724
30°	3023	2772	2664
35°	3014	2733	2592
40°	3000	2683	2493
45°	2961	2623	2080
50°	2912	2567	1877
55°	2854	2483	1806
60°	2806	2371	1757
65°	2764	2270	1755
70°	2692	2182	1783
75°	2570	2075	1796
80°	2407	1866	1669
85°	2201	1321	1124



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.2	3.0
10°-20°	296.4	8.6
20°-30°	442.8	12.9
30°-40°	528.6	15.4
40°-50°	528.7	15.4
50°-60°	457.5	13.4
60°-70°	351.2	10.2
70°-80°	215.2	6.3
80°-90°	60.6	1.8
90°-100°	34.2	1.0
100°-110°	54.3	1.6
110°-120°	63.5	1.9
120°-130°	68.6	2.0
130°-140°	67.6	2.0
140°-150°	59.8	1.7
150°-160°	49.2	1.4
160°-170°	32.9	1.0
170°-180°	11.5	0.3
0°-30°	843.5	24.6
0°-40°	1372.1	40.0
0°-60°	2358.3	68.8
0°-90°	2985.3	87.1
90°-120°	152.1	4.4
90°-150°	348.1	10.2
90°-180°	442.0	12.9
0°-180°	3427.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1101	1098	1088	1096	1095	105
15°	1073	1071	1052	1033	1024	303
25°	1016	1003	949	924	917	469
35°	917	894	832	802	789	574
45°	778	756	689	627	547	600
55°	608	594	529	423	385	545
65°	434	418	356	287	276	429
75°	247	234	200	173	173	261
85°	71	59	43	36	36	75
90°	3	11	17	22	24	5
95°	13	27	36	38	38	13
105°	36	38	54	63	66	38
115°	60	51	63	73	78	59
125°	81	65	73	84	87	72
135°	97	87	81	89	94	75
145°	108	103	90	89	92	67
155°	114	112	106	101	100	53
165°	117	119	116	116	116	33
175°	119	120	120	122	122	11
180°	120	120	120	120	120	



TEST NUMBER: P520764

CATALOG NUMBER: 8WSLA-50-L935-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1101.2	1101.2	1101.2	1101.2	1101.2
2.5°	1104.3	1101.2	1093.3	1101.2	1099.6
5°	1101.2	1098.0	1088.5	1096.4	1094.8
7.5°	1096.4	1093.3	1083.7	1093.3	1091.7
10°	1091.7	1088.5	1079.0	1085.3	1080.6
12.5°	1083.7	1080.6	1069.5	1061.6	1052.1
15°	1072.7	1071.1	1052.1	1033.0	1023.5
17.5°	1063.1	1058.4	1028.3	1006.1	995.0
20°	1050.5	1042.6	1002.9	977.6	969.7
22.5°	1036.2	1023.5	976.0	952.2	945.9
25°	1015.6	1002.9	949.1	923.7	917.4
27.5°	995.0	979.2	922.1	896.8	890.4
30°	972.8	950.7	892.0	868.3	857.2
32.5°	947.5	925.3	863.5	836.6	823.9
35°	917.4	893.6	831.8	801.7	789.0
37.5°	888.9	863.5	800.1	766.9	749.4
40°	854.0	828.7	763.7	727.3	709.8
42.5°	817.6	793.8	728.8	684.5	641.7
45°	778.0	755.8	689.2	627.4	546.6
47.5°	736.8	717.7	652.8	568.8	491.2
50°	695.6	676.5	613.2	513.4	448.4
52.5°	654.4	638.5	568.8	467.4	413.5
55°	608.4	594.2	529.2	423.0	385.0
57.5°	567.2	553.0	483.2	386.6	354.9
60°	521.3	508.6	440.5	350.2	326.4
62.5°	478.5	464.2	397.7	318.5	301.0
65°	434.1	418.3	356.5	286.8	275.7
67.5°	388.2	372.3	316.9	258.3	251.9
70°	342.2	329.6	277.3	229.7	226.6
72.5°	294.7	280.4	237.7	202.8	202.8
75°	247.2	234.5	199.6	172.7	172.7
77.5°	198.1	191.7	160.0	141.0	142.6
80°	155.3	147.4	120.4	107.7	107.7
82.5°	114.1	104.6	80.8	71.3	74.5
85°	71.3	58.6	42.8	36.4	36.4
87.5°	22.2	17.4	12.7	14.3	14.3
90°	3.2	11.1	17.4	22.2	23.8
92.5°	7.9	20.6	25.4	30.1	31.7
95°	12.7	26.9	36.4	38.0	38.0
97.5°	17.4	30.1	44.4	50.7	50.7
100°	23.8	31.7	47.5	57.0	58.6
102.5°	30.1	34.9	50.7	60.2	63.4
105°	36.4	38.0	53.9	63.4	66.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.9	47.5	60.2	71.3	74.5
115°	60.2	50.7	63.4	72.9	77.6
117.5°	65.0	55.5	66.5	76.1	79.2
120°	69.7	58.6	68.1	79.2	82.4
122.5°	76.1	61.8	71.3	80.8	85.6
125°	80.8	65.0	72.9	84.0	87.1
127.5°	85.6	71.3	74.5	85.6	88.7
130°	88.7	77.6	76.1	87.1	90.3
132.5°	93.5	82.4	77.6	88.7	91.9
135°	96.6	87.1	80.8	88.7	93.5
137.5°	99.8	91.9	80.8	88.7	91.9
140°	103.0	96.6	82.4	88.7	91.9
142.5°	104.6	99.8	84.0	88.7	91.9
145°	107.7	103.0	90.3	88.7	91.9
147.5°	109.3	106.2	95.1	88.7	91.9
150°	110.9	109.3	99.8	90.3	90.3
152.5°	112.5	110.9	103.0	96.6	93.5
155°	114.1	112.5	106.2	101.4	99.8
157.5°	115.7	115.7	109.3	106.2	104.6
160°	115.7	117.2	112.5	109.3	107.7
162.5°	117.2	118.8	114.1	112.5	110.9
165°	117.2	118.8	115.7	115.7	115.7
167.5°	118.8	120.4	118.8	117.2	117.2
170°	118.8	120.4	118.8	118.8	118.8
172.5°	118.8	120.4	120.4	120.4	120.4
175°	118.8	120.4	120.4	122.0	122.0
177.5°	118.8	120.4	120.4	120.4	120.4
180°	120.4	120.4	120.4	120.4	120.4



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	42.8	41.2	55.5	66.5	69.7
110°	47.5	44.4	58.6	68.1	71.3



(END OF REPORT)