

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: P520770

Luminaire Tested: **8WSLA-50-L950-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: P520770  
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-L950-UPL8-UNV-U  
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

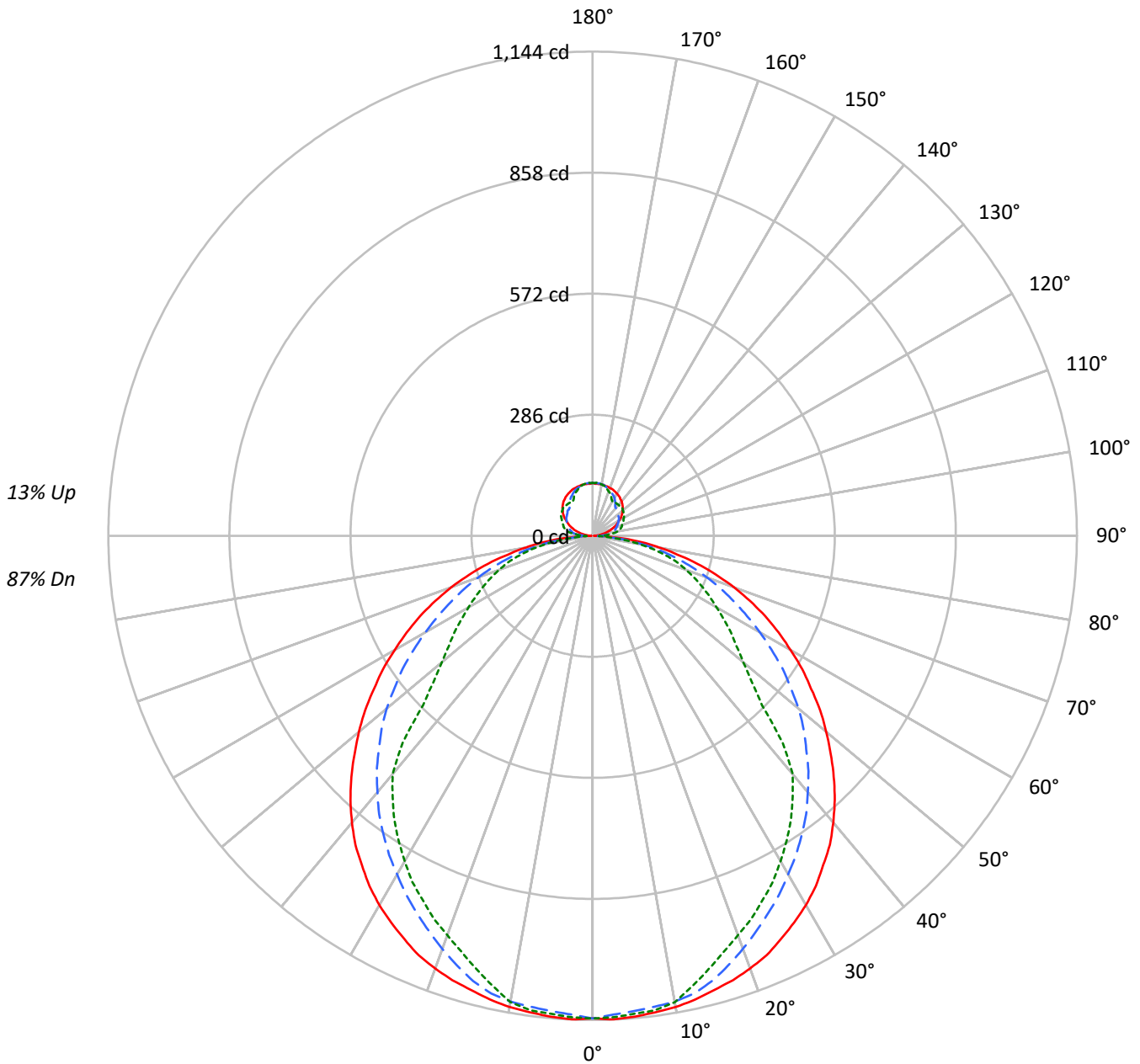
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3549.0 lumens  
Efficiency: N/A  
Efficacy: 116.4 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									
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3069	3069	3069
5°	3081	3045	3063
10°	3089	3053	3058
15°	3095	3035	2953
20°	3115	2974	2876
25°	3123	2918	2821
30°	3131	2871	2758
35°	3121	2830	2684
40°	3107	2778	2582
45°	3066	2716	2154
50°	3015	2658	1944
55°	2956	2571	1871
60°	2905	2455	1819
65°	2863	2351	1818
70°	2788	2259	1846
75°	2662	2149	1860
80°	2492	1932	1729
85°	2279	1368	1164



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.0	3.0
10°-20°	306.9	8.6
20°-30°	458.6	12.9
30°-40°	547.5	15.4
40°-50°	547.5	15.4
50°-60°	473.8	13.4
60°-70°	363.7	10.2
70°-80°	222.8	6.3
80°-90°	62.7	1.8
90°-100°	35.5	1.0
100°-110°	56.3	1.6
110°-120°	65.8	1.9
120°-130°	71.0	2.0
130°-140°	70.0	2.0
140°-150°	61.9	1.7
150°-160°	51.0	1.4
160°-170°	34.1	1.0
170°-180°	11.9	0.3
0°-30°	873.5	24.6
0°-40°	1420.9	40.0
0°-60°	2442.3	68.8
0°-90°	3091.6	87.1
90°-120°	157.5	4.4
90°-150°	360.5	10.2
90°-180°	457.0	12.9
0°-180°	3549.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1140	1137	1127	1136	1134	109
15°	1111	1109	1090	1070	1060	314
25°	1052	1039	983	957	950	485
35°	950	925	861	830	817	595
45°	806	783	714	650	566	621
55°	630	615	548	438	399	565
65°	450	433	369	297	286	444
75°	256	243	207	179	179	270
85°	74	61	44	38	38	77
90°	3	12	18	23	25	5
95°	13	28	38	39	39	13
105°	38	39	56	66	69	40
115°	62	52	66	76	80	61
125°	84	67	76	87	90	75
135°	100	90	84	92	97	77
145°	112	107	94	92	95	70
155°	118	116	110	105	103	55
165°	121	123	120	120	120	34
175°	123	125	125	126	126	12
180°	125	125	125	125	125	



TEST NUMBER: P520770

CATALOG NUMBER: 8WSLA-50-L950-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1140.4	1140.4	1140.4	1140.4	1140.4
2.5°	1143.7	1140.4	1132.2	1140.4	1138.7
5°	1140.4	1137.1	1127.3	1135.5	1133.8
7.5°	1135.5	1132.2	1122.3	1132.2	1130.5
10°	1130.5	1127.3	1117.4	1124.0	1119.0
12.5°	1122.3	1119.0	1107.6	1099.4	1089.5
15°	1110.8	1109.2	1089.5	1069.8	1060.0
17.5°	1101.0	1096.1	1064.9	1041.9	1030.4
20°	1087.9	1079.7	1038.6	1012.4	1004.2
22.5°	1073.1	1060.0	1010.8	986.1	979.6
25°	1051.8	1038.6	982.9	956.6	950.0
27.5°	1030.4	1014.0	955.0	928.7	922.1
30°	1007.5	984.5	923.8	899.2	887.7
32.5°	981.2	958.2	894.3	866.4	853.2
35°	950.0	925.4	861.4	830.3	817.1
37.5°	920.5	894.3	828.6	794.2	776.1
40°	884.4	858.2	790.9	753.1	735.1
42.5°	846.7	822.1	754.8	708.8	664.5
45°	805.6	782.7	713.8	649.8	566.1
47.5°	763.0	743.3	676.0	589.1	508.7
50°	720.3	700.6	635.0	531.6	464.4
52.5°	677.7	661.3	589.1	484.0	428.3
55°	630.1	615.3	548.0	438.1	398.7
57.5°	587.4	572.6	500.5	400.4	367.5
60°	539.8	526.7	456.2	362.6	338.0
62.5°	495.5	480.8	411.8	329.8	311.8
65°	449.6	433.2	369.2	297.0	285.5
67.5°	402.0	385.6	328.2	267.5	260.9
70°	354.4	341.3	287.1	237.9	234.6
72.5°	305.2	290.4	246.1	210.0	210.0
75°	256.0	242.8	206.7	178.9	178.9
77.5°	205.1	198.5	165.7	146.0	147.7
80°	160.8	152.6	124.7	111.6	111.6
82.5°	118.1	108.3	83.7	73.8	77.1
85°	73.8	60.7	44.3	37.7	37.7
87.5°	23.0	18.0	13.1	14.8	14.8
90°	3.3	11.5	18.0	23.0	24.6
92.5°	8.2	21.3	26.3	31.2	32.8
95°	13.1	27.9	37.7	39.4	39.4
97.5°	18.0	31.2	45.9	52.5	52.5
100°	24.6	32.8	49.2	59.1	60.7
102.5°	31.2	36.1	52.5	62.4	65.6
105°	37.7	39.4	55.8	65.6	68.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	55.8	49.2	62.4	73.8	77.1
115°	62.4	52.5	65.6	75.5	80.4
117.5°	67.3	57.4	68.9	78.8	82.0
120°	72.2	60.7	70.6	82.0	85.3
122.5°	78.8	64.0	73.8	83.7	88.6
125°	83.7	67.3	75.5	87.0	90.2
127.5°	88.6	73.8	77.1	88.6	91.9
130°	91.9	80.4	78.8	90.2	93.5
132.5°	96.8	85.3	80.4	91.9	95.2
135°	100.1	90.2	83.7	91.9	96.8
137.5°	103.4	95.2	83.7	91.9	95.2
140°	106.7	100.1	85.3	91.9	95.2
142.5°	108.3	103.4	87.0	91.9	95.2
145°	111.6	106.7	93.5	91.9	95.2
147.5°	113.2	109.9	98.4	91.9	95.2
150°	114.9	113.2	103.4	93.5	93.5
152.5°	116.5	114.9	106.7	100.1	96.8
155°	118.1	116.5	109.9	105.0	103.4
157.5°	119.8	119.8	113.2	109.9	108.3
160°	119.8	121.4	116.5	113.2	111.6
162.5°	121.4	123.1	118.1	116.5	114.9
165°	121.4	123.1	119.8	119.8	119.8
167.5°	123.1	124.7	123.1	121.4	121.4
170°	123.1	124.7	123.1	123.1	123.1
172.5°	123.1	124.7	124.7	124.7	124.7
175°	123.1	124.7	124.7	126.3	126.3
177.5°	123.1	124.7	124.7	124.7	124.7
180°	124.7	124.7	124.7	124.7	124.7



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	44.3	42.7	57.4	68.9	72.2
110°	49.2	45.9	60.7	70.6	73.8



(END OF REPORT)