

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: P520769

Luminaire Tested: **8WSLA-50-L950-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: P520769
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-50-L950-UPL15-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

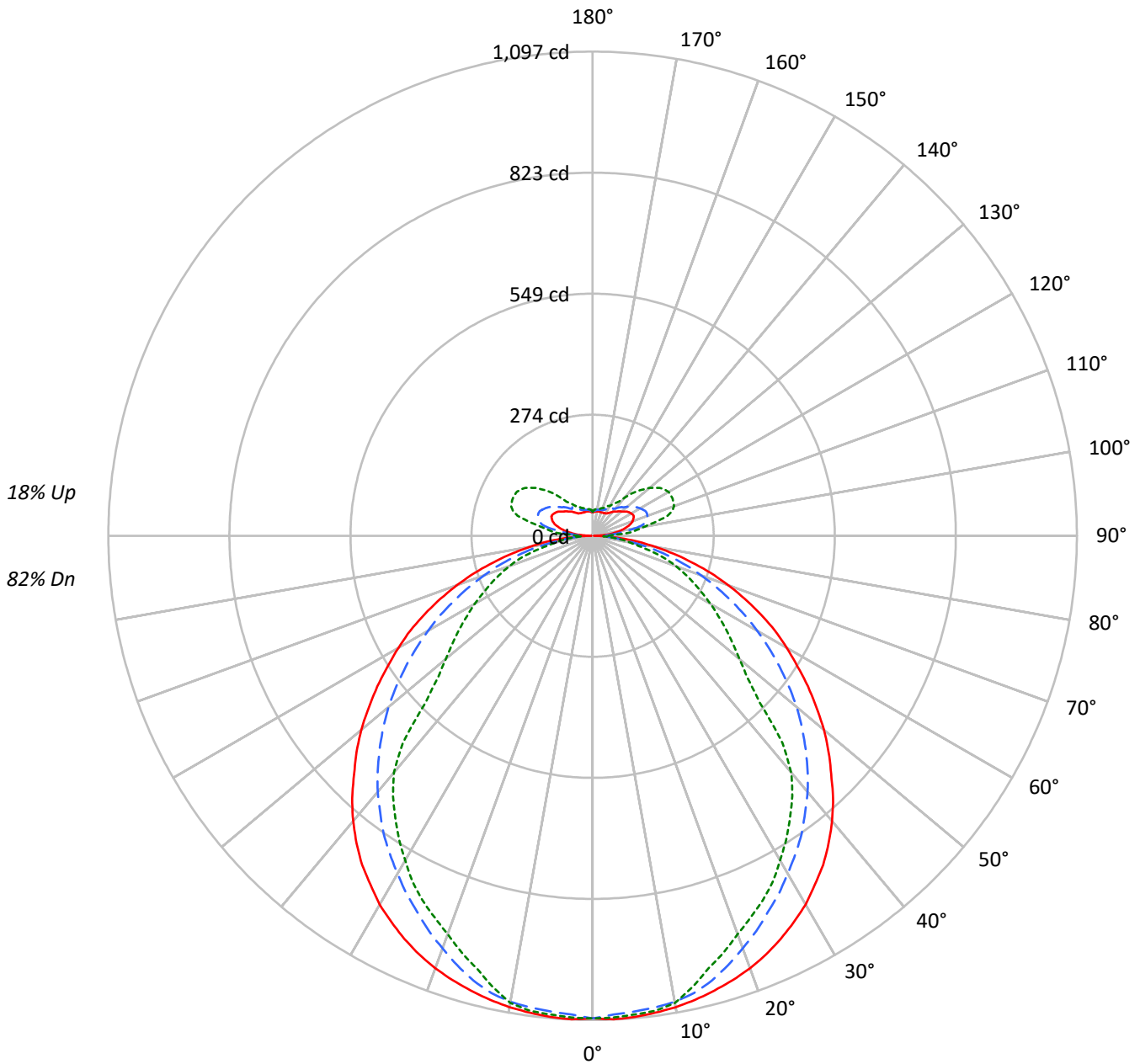
Lumens per Lamp: N/A
Luminaire Lumens: 3541.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 30.5
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°	2942	2942	2942
5°	2957	2924	2941
10°	2963	2930	2936
15°	2972	2907	2827
20°	2985	2849	2750
25°	2993	2792	2706
30°	2998	2746	2639
35°	2991	2710	2561
40°	2964	2661	2458
45°	2907	2595	2038
50°	2864	2525	1815
55°	2794	2424	1727
60°	2733	2315	1659
65°	2669	2189	1610
70°	2565	2050	1579
75°	2421	1879	1452
80°	2216	1581	1289
85°	1985	1371	1300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	2.9
10°-20°	294.4	8.3
20°-30°	439.3	12.4
30°-40°	523.4	14.8
40°-50°	520.6	14.7
50°-60°	446.2	12.6
60°-70°	336.1	9.5
70°-80°	194.6	5.5
80°-90°	58.5	1.7
90°-100°	62.8	1.8
100°-110°	129.0	3.6
110°-120°	136.4	3.9
120°-130°	113.8	3.2
130°-140°	79.5	2.2
140°-150°	49.5	1.4
150°-160°	30.7	0.9
160°-170°	17.3	0.5
170°-180°	5.6	0.2
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0°-30°	837.3	23.6
0°-40°	1360.7	38.4
0°-60°	2327.6	65.7
0°-90°	2916.7	82.4
90°-120°	328.1	9.3
90°-150°	570.8	16.1
90°-180°	624.0	17.6
0°-180°	3541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1094	1091	1082	1090	1089	104
15°	1067	1066	1044	1026	1015	301
25°	1008	994	940	917	912	465
35°	910	886	825	793	780	569
45°	764	745	682	614	536	591
55°	596	587	517	410	368	532
65°	419	409	344	267	253	414
75°	233	225	181	144	140	247
85°	64	57	44	42	42	69
90°	3	16	27	33	36	7
95°	36	48	54	80	86	34
105°	83	86	124	166	176	86
115°	103	88	132	182	200	100
125°	95	84	114	167	188	85
135°	78	84	92	124	143	61
145°	63	73	80	85	91	40
155°	58	61	65	71	72	27
165°	57	59	61	63	63	16
175°	55	57	58	59	60	5
180°	54	54	54	54	54	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1093.4	1093.4	1093.4	1093.4	1093.4
2.5°	1096.7	1094.5	1085.6	1094.5	1092.3
5°	1094.5	1091.1	1082.3	1090.0	1088.9
7.5°	1090.0	1087.8	1077.8	1086.7	1085.6
10°	1084.5	1081.2	1072.3	1078.9	1074.5
12.5°	1076.7	1074.5	1061.2	1055.7	1046.8
15°	1066.7	1065.6	1043.5	1025.7	1014.6
17.5°	1055.7	1051.2	1020.2	999.1	989.1
20°	1042.4	1035.7	994.7	970.3	960.3
22.5°	1026.8	1016.8	969.2	945.9	935.9
25°	1008.0	993.6	940.3	917.0	911.5
27.5°	986.9	970.3	913.7	890.4	883.8
30°	964.7	943.7	883.8	861.6	849.4
32.5°	937.0	917.0	855.0	829.4	816.1
35°	910.4	886.0	825.0	792.9	779.5
37.5°	878.2	853.8	790.6	758.5	743.0
40°	843.9	819.5	757.4	719.7	699.7
42.5°	806.2	784.0	720.8	675.3	636.5
45°	764.0	745.2	682.0	614.3	535.6
47.5°	725.2	707.5	643.2	555.6	474.6
50°	684.2	667.5	603.2	500.1	433.6
52.5°	638.7	626.5	560.0	452.4	399.2
55°	595.5	586.6	516.7	410.3	368.2
57.5°	550.0	541.1	473.5	370.4	337.1
60°	507.9	499.0	430.2	334.9	308.3
62.5°	465.7	453.5	388.1	300.5	278.3
65°	419.2	409.2	343.8	267.2	252.8
67.5°	372.6	363.7	302.7	236.2	226.2
70°	326.0	318.3	260.6	206.3	200.7
72.5°	280.5	270.6	222.9	176.3	174.1
75°	232.9	225.1	180.7	144.2	139.7
77.5°	187.4	180.7	141.9	109.8	106.5
80°	143.0	136.4	102.0	79.8	83.2
82.5°	105.3	96.5	68.8	62.1	65.4
85°	64.3	56.6	44.4	42.1	42.1
87.5°	22.2	21.1	20.0	23.3	24.4
90°	3.3	15.5	26.6	33.3	35.5
92.5°	18.9	27.7	36.6	43.2	45.5
95°	35.5	47.7	54.3	79.8	86.5
97.5°	48.8	63.2	71.0	94.3	100.9
100°	62.1	75.4	99.8	112.0	119.8
102.5°	73.2	83.2	117.5	141.9	146.4
105°	83.2	86.5	124.2	166.3	176.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	99.8	88.7	133.1	180.7	198.5
115°	103.1	87.6	132.0	181.9	199.6
117.5°	103.1	87.6	128.6	181.9	199.6
120°	100.9	88.7	124.2	179.6	198.5
122.5°	98.7	86.5	119.8	175.2	194.1
125°	95.4	84.3	114.2	167.4	188.5
127.5°	89.8	86.5	108.7	157.5	178.5
130°	85.4	87.6	102.0	147.5	168.6
132.5°	82.1	85.4	95.4	136.4	155.2
135°	77.6	84.3	92.0	124.2	143.0
137.5°	74.3	80.9	86.5	113.1	128.6
140°	71.0	78.7	80.9	98.7	112.0
142.5°	66.5	75.4	76.5	92.0	97.6
145°	63.2	73.2	79.8	85.4	90.9
147.5°	59.9	68.8	77.6	78.7	84.3
150°	58.8	64.3	74.3	75.4	77.6
152.5°	57.7	62.1	68.8	75.4	76.5
155°	57.7	61.0	65.4	71.0	72.1
157.5°	56.6	61.0	63.2	67.6	68.8
160°	56.6	59.9	62.1	65.4	66.5
162.5°	56.6	59.9	61.0	64.3	65.4
165°	56.6	58.8	61.0	63.2	63.2
167.5°	56.6	58.8	59.9	62.1	62.1
170°	56.6	57.7	59.9	61.0	61.0
172.5°	55.4	57.7	58.8	61.0	61.0
175°	55.4	56.6	57.7	58.8	59.9
177.5°	53.2	56.6	57.7	58.8	57.7
180°	54.3	54.3	54.3	54.3	54.3



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	90.9	87.6	128.6	175.2	189.6
110°	96.5	88.7	132.0	178.5	196.3



(END OF REPORT)