

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: P520745

Luminaire Tested: **8WSLA-200-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: P520745  
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-200-L950-UPL15-UNV-U  
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

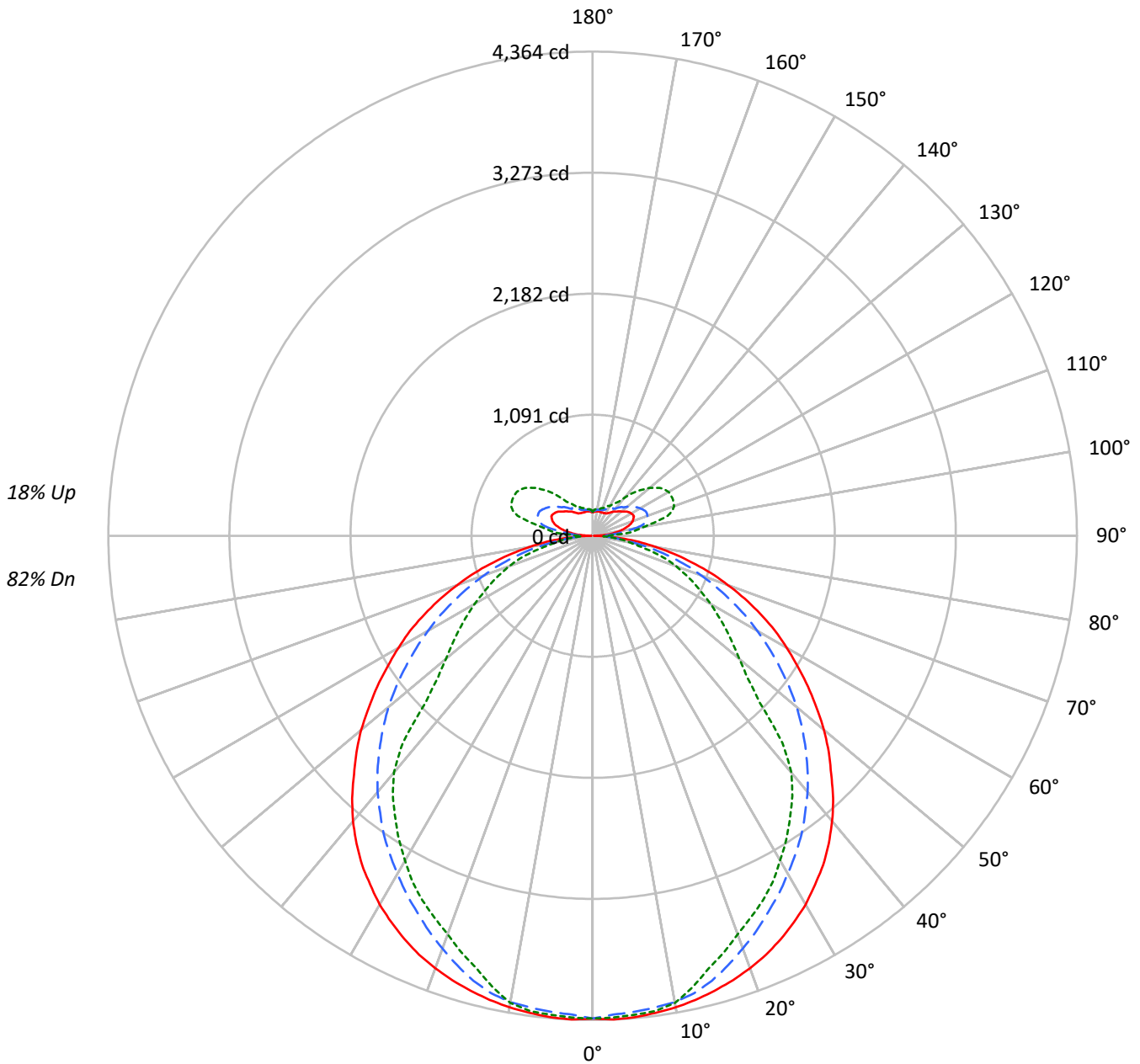
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14091.0 lumens  
Efficiency: N/A  
Efficacy: 92.5 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): 152.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	11708	11708	11708
5°	11765	11634	11705
10°	11792	11660	11684
15°	11826	11568	11248
20°	11878	11335	10943
25°	11910	11111	10770
30°	11929	10928	10503
35°	11901	10785	10191
40°	11796	10587	9781
45°	11570	10328	8111
50°	11398	10050	7223
55°	11117	9647	6873
60°	10877	9214	6602
65°	10621	8710	6406
70°	10207	8159	6284
75°	9635	7479	5781
80°	8821	6292	5129
85°	7901	5450	5178



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.4	2.9
10°-20°	1171.3	8.3
20°-30°	1748.1	12.4
30°-40°	2082.9	14.8
40°-50°	2071.8	14.7
50°-60°	1775.6	12.6
60°-70°	1337.3	9.5
70°-80°	774.5	5.5
80°-90°	232.8	1.7
90°-100°	249.9	1.8
100°-110°	513.2	3.6
110°-120°	542.6	3.9
120°-130°	452.7	3.2
130°-140°	316.2	2.2
140°-150°	196.8	1.4
150°-160°	122.0	0.9
160°-170°	68.7	0.5
170°-180°	22.2	0.2
0°-30°	3331.8	23.6
0°-40°	5414.8	38.4
0°-60°	9262.2	65.7
0°-90°	11606.8	82.4
90°-120°	1305.7	9.3
90°-150°	2271.4	16.1
90°-180°	2484.0	17.6
0°-180°	14091.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4351	4351	4351	4351	4351	
5°	4355	4342	4307	4338	4333	414
15°	4245	4241	4152	4082	4038	1200
25°	4011	3954	3742	3649	3627	1849
35°	3623	3526	3283	3155	3102	2263
45°	3040	2965	2714	2445	2131	2350
55°	2370	2334	2056	1633	1465	2118
65°	1668	1628	1368	1064	1006	1649
75°	927	896	719	574	556	982
85°	256	225	176	168	168	273
90°	13	62	106	132	141	26
95°	141	190	216	318	344	135
105°	331	344	494	662	702	343
115°	410	349	525	724	794	400
125°	380	335	454	666	750	337
135°	309	335	366	494	569	241
145°	252	291	318	340	362	160
155°	230	243	260	282	287	106
165°	225	234	243	252	252	64
175°	221	225	230	234	238	21
180°	216	216	216	216	216	



TEST NUMBER: P520745

CATALOG NUMBER: 8WSLA-200-L950-UPL15-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4350.9	4350.9	4350.9	4350.9	4350.9
2.5°	4364.1	4355.3	4320.0	4355.3	4346.5
5°	4355.3	4342.1	4306.8	4337.7	4333.3
7.5°	4337.7	4328.8	4289.1	4324.4	4320.0
10°	4315.6	4302.4	4267.1	4293.5	4275.9
12.5°	4284.7	4275.9	4222.9	4200.9	4165.6
15°	4245.0	4240.6	4152.3	4081.7	4037.6
17.5°	4200.9	4183.2	4059.7	3975.8	3936.1
20°	4147.9	4121.5	3958.2	3861.1	3821.4
22.5°	4086.1	4046.4	3856.7	3764.0	3724.3
25°	4011.1	3953.8	3742.0	3649.3	3627.2
27.5°	3927.3	3861.1	3636.1	3543.4	3516.9
30°	3839.0	3755.2	3516.9	3428.7	3380.1
32.5°	3728.7	3649.3	3402.2	3300.7	3247.7
35°	3622.8	3525.7	3283.0	3155.1	3102.1
37.5°	3494.8	3397.8	3146.2	3018.3	2956.5
40°	3358.1	3261.0	3013.9	2863.8	2784.4
42.5°	3208.0	3119.8	2868.2	2687.3	2532.9
45°	3040.3	2965.3	2713.8	2444.6	2131.3
47.5°	2885.9	2815.3	2559.4	2210.8	1888.6
50°	2722.6	2656.4	2400.5	1990.1	1725.4
52.5°	2541.7	2493.2	2228.4	1800.4	1588.6
55°	2369.6	2334.3	2056.3	1632.7	1465.0
57.5°	2188.7	2153.4	1884.2	1473.8	1341.5
60°	2021.0	1985.7	1712.1	1332.6	1226.7
62.5°	1853.3	1804.8	1544.4	1195.8	1107.6
65°	1668.0	1628.3	1367.9	1063.5	1006.1
67.5°	1482.7	1447.4	1204.7	939.9	900.2
70°	1297.3	1266.4	1037.0	820.8	798.7
72.5°	1116.4	1076.7	887.0	701.6	692.8
75°	926.7	895.8	719.3	573.6	556.0
77.5°	745.7	719.3	564.8	436.9	423.6
80°	569.2	542.8	406.0	317.7	331.0
82.5°	419.2	383.9	273.6	247.1	260.3
85°	255.9	225.0	176.5	167.7	167.7
87.5°	88.3	83.8	79.4	92.7	97.1
90°	13.2	61.8	105.9	132.4	141.2
92.5°	75.0	110.3	145.6	172.1	180.9
95°	141.2	189.7	216.2	317.7	344.2
97.5°	194.2	251.5	282.4	375.1	401.6
100°	247.1	300.1	397.1	445.7	476.6
102.5°	291.2	331.0	467.7	564.8	582.5
105°	331.0	344.2	494.2	661.9	701.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	397.1	353.0	529.5	719.3	789.9
115°	410.4	348.6	525.1	723.7	794.3
117.5°	410.4	348.6	511.9	723.7	794.3
120°	401.6	353.0	494.2	714.9	789.9
122.5°	392.7	344.2	476.6	697.2	772.2
125°	379.5	335.4	454.5	666.3	750.2
127.5°	357.4	344.2	432.4	626.6	710.4
130°	339.8	348.6	406.0	586.9	670.7
132.5°	326.5	339.8	379.5	542.8	617.8
135°	308.9	335.4	366.3	494.2	569.2
137.5°	295.7	322.1	344.2	450.1	511.9
140°	282.4	313.3	322.1	392.7	445.7
142.5°	264.8	300.1	304.5	366.3	388.3
145°	251.5	291.2	317.7	339.8	361.8
147.5°	238.3	273.6	308.9	313.3	335.4
150°	233.9	255.9	295.7	300.1	308.9
152.5°	229.5	247.1	273.6	300.1	304.5
155°	229.5	242.7	260.3	282.4	286.8
157.5°	225.0	242.7	251.5	269.2	273.6
160°	225.0	238.3	247.1	260.3	264.8
162.5°	225.0	238.3	242.7	255.9	260.3
165°	225.0	233.9	242.7	251.5	251.5
167.5°	225.0	233.9	238.3	247.1	247.1
170°	225.0	229.5	238.3	242.7	242.7
172.5°	220.6	229.5	233.9	242.7	242.7
175°	220.6	225.0	229.5	233.9	238.3
177.5°	211.8	225.0	229.5	233.9	229.5
180°	216.2	216.2	216.2	216.2	216.2



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	361.8	348.6	511.9	697.2	754.6
110°	383.9	353.0	525.1	710.4	781.0



(END OF REPORT)