

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: P520676

Luminaire Tested: **8WSLA-150-L830-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: P520676  
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-L830-UPL15-UNV-U  
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

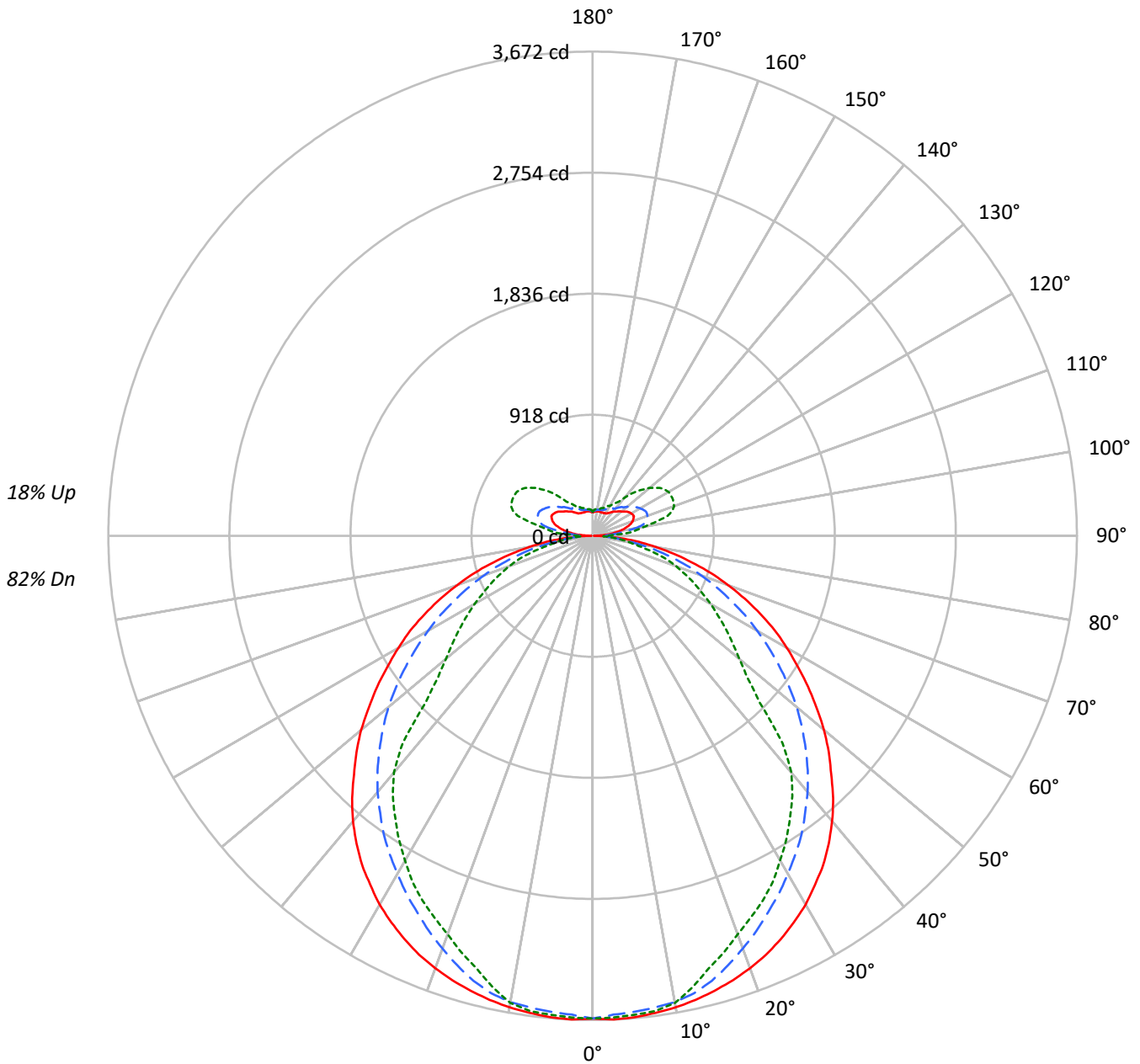
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11857.0 lumens  
Efficiency: N/A  
Efficacy: 126.7 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 (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°	9852	9852	9852
5°	9900	9789	9850
10°	9923	9811	9832
15°	9951	9734	9465
20°	9995	9538	9208
25°	10022	9349	9062
30°	10038	9195	8838
35°	10015	9075	8575
40°	9926	8909	8231
45°	9736	8691	6825
50°	9591	8456	6078
55°	9355	8118	5783
60°	9153	7754	5555
65°	8937	7330	5391
70°	8589	6866	5288
75°	8108	6292	4865
80°	7423	5294	4316
85°	6651	4585	4357



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.0	2.9
10°-20°	985.6	8.3
20°-30°	1471.0	12.4
30°-40°	1752.7	14.8
40°-50°	1743.4	14.7
50°-60°	1494.1	12.6
60°-70°	1125.3	9.5
70°-80°	651.7	5.5
80°-90°	195.9	1.7
90°-100°	210.3	1.8
100°-110°	431.8	3.6
110°-120°	456.6	3.9
120°-130°	380.9	3.2
130°-140°	266.1	2.2
140°-150°	165.6	1.4
150°-160°	102.7	0.9
160°-170°	57.8	0.5
170°-180°	18.6	0.2
0°-30°	2803.6	23.6
0°-40°	4556.3	38.4
0°-60°	7793.8	65.7
0°-90°	9766.6	82.4
90°-120°	1098.6	9.3
90°-150°	1911.2	16.1
90°-180°	2090.0	17.6
0°-180°	11857.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3661	3661	3661	3661	3661	
5°	3665	3654	3624	3650	3646	349
15°	3572	3568	3494	3435	3398	1009
25°	3375	3327	3149	3071	3052	1556
35°	3048	2967	2762	2655	2610	1904
45°	2558	2495	2284	2057	1793	1978
55°	1994	1964	1730	1374	1233	1783
65°	1404	1370	1151	895	847	1387
75°	780	754	605	483	468	826
85°	215	189	148	141	141	230
90°	11	52	89	111	119	22
95°	119	160	182	267	290	114
105°	278	290	416	557	590	289
115°	345	293	442	609	668	336
125°	319	282	382	561	631	284
135°	260	282	308	416	479	203
145°	212	245	267	286	304	134
155°	193	204	219	238	241	89
165°	189	197	204	212	212	54
175°	186	189	193	197	200	18
180°	182	182	182	182	182	



TEST NUMBER: P520676

CATALOG NUMBER: 8WSLA-150-L830-UPL15-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3661.1	3661.1	3661.1	3661.1	3661.1
2.5°	3672.3	3664.8	3635.1	3664.8	3657.4
5°	3664.8	3653.7	3624.0	3650.0	3646.3
7.5°	3650.0	3642.5	3609.1	3638.8	3635.1
10°	3631.4	3620.3	3590.6	3612.8	3598.0
12.5°	3605.4	3598.0	3553.4	3534.9	3505.2
15°	3572.0	3568.3	3494.0	3434.6	3397.5
17.5°	3534.9	3520.0	3416.0	3345.5	3312.1
20°	3490.3	3468.0	3330.6	3249.0	3215.5
22.5°	3438.3	3404.9	3245.2	3167.3	3133.9
25°	3375.2	3326.9	3148.7	3070.7	3052.2
27.5°	3304.7	3249.0	3059.6	2981.6	2959.3
30°	3230.4	3159.8	2959.3	2885.1	2844.2
32.5°	3137.6	3070.7	2862.8	2777.4	2732.8
35°	3048.5	2966.8	2762.5	2654.9	2610.3
37.5°	2940.8	2859.1	2647.4	2539.8	2487.8
40°	2825.7	2744.0	2536.0	2409.8	2343.0
42.5°	2699.4	2625.2	2413.5	2261.3	2131.3
45°	2558.3	2495.2	2283.6	2057.1	1793.4
47.5°	2428.4	2369.0	2153.6	1860.3	1589.2
50°	2291.0	2235.3	2019.9	1674.6	1451.8
52.5°	2138.7	2097.9	1875.1	1514.9	1336.7
55°	1993.9	1964.2	1730.3	1373.8	1232.7
57.5°	1841.7	1812.0	1585.5	1240.2	1128.8
60°	1700.6	1670.9	1440.7	1121.4	1032.2
62.5°	1559.5	1518.7	1299.6	1006.2	932.0
65°	1403.6	1370.1	1151.1	894.9	846.6
67.5°	1247.6	1217.9	1013.7	790.9	757.5
70°	1091.7	1065.7	872.6	690.6	672.1
72.5°	939.4	906.0	746.3	590.4	583.0
75°	779.8	753.8	605.2	482.7	467.9
77.5°	627.5	605.2	475.3	367.6	356.5
80°	479.0	456.7	341.6	267.3	278.5
82.5°	352.7	323.0	230.2	207.9	219.1
85°	215.4	189.4	148.5	141.1	141.1
87.5°	74.3	70.5	66.8	78.0	81.7
90°	11.1	52.0	89.1	111.4	118.8
92.5°	63.1	92.8	122.5	144.8	152.2
95°	118.8	159.7	181.9	267.3	289.6
97.5°	163.4	211.6	237.6	315.6	337.9
100°	207.9	252.5	334.2	375.0	401.0
102.5°	245.1	278.5	393.6	475.3	490.1
105°	278.5	289.6	415.9	557.0	590.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	334.2	297.0	445.6	605.2	664.6
115°	345.3	293.3	441.9	608.9	668.4
117.5°	345.3	293.3	430.7	608.9	668.4
120°	337.9	297.0	415.9	601.5	664.6
122.5°	330.5	289.6	401.0	586.7	649.8
125°	319.3	282.2	382.4	560.7	631.2
127.5°	300.8	289.6	363.9	527.3	597.8
130°	285.9	293.3	341.6	493.8	564.4
132.5°	274.8	285.9	319.3	456.7	519.8
135°	259.9	282.2	308.2	415.9	479.0
137.5°	248.8	271.1	289.6	378.7	430.7
140°	237.6	263.6	271.1	330.5	375.0
142.5°	222.8	252.5	256.2	308.2	326.8
145°	211.6	245.1	267.3	285.9	304.5
147.5°	200.5	230.2	259.9	263.6	282.2
150°	196.8	215.4	248.8	252.5	259.9
152.5°	193.1	207.9	230.2	252.5	256.2
155°	193.1	204.2	219.1	237.6	241.4
157.5°	189.4	204.2	211.6	226.5	230.2
160°	189.4	200.5	207.9	219.1	222.8
162.5°	189.4	200.5	204.2	215.4	219.1
165°	189.4	196.8	204.2	211.6	211.6
167.5°	189.4	196.8	200.5	207.9	207.9
170°	189.4	193.1	200.5	204.2	204.2
172.5°	185.7	193.1	196.8	204.2	204.2
175°	185.7	189.4	193.1	196.8	200.5
177.5°	178.2	189.4	193.1	196.8	193.1
180°	181.9	181.9	181.9	181.9	181.9



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	304.5	293.3	430.7	586.7	634.9
110°	323.0	297.0	441.9	597.8	657.2



(END OF REPORT)