

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: P520698

Luminaire Tested: **8WSLA-150-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: P520698  
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-150-L950-UPL8-UNV-U  
Description: 8 FOOT, 3000 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**

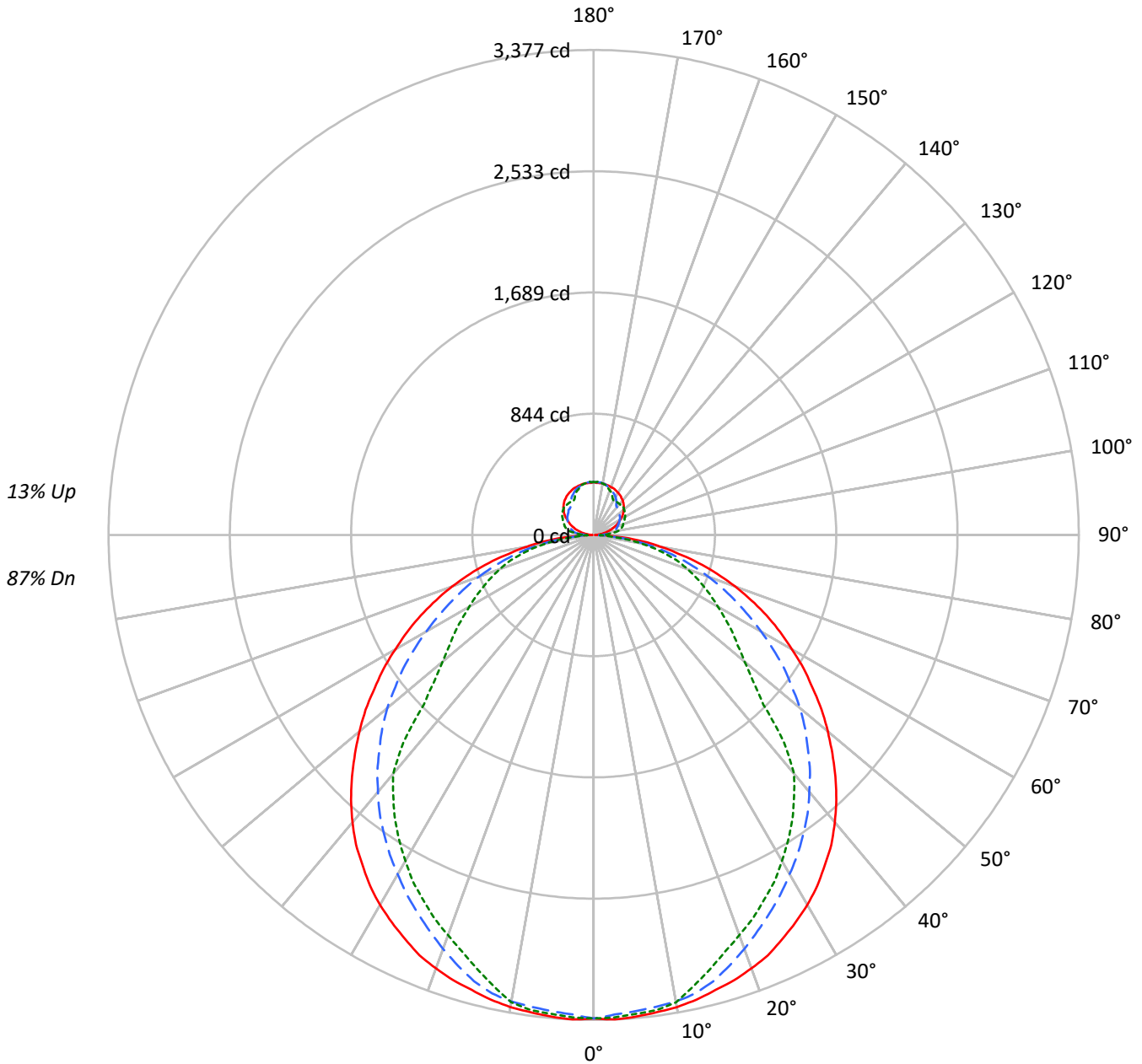
Lumens per Lamp: N/A  
Luminaire Lumens: 10480.0 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 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	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°	9062	9062	9062
5°	9096	8992	9044
10°	9122	9016	9030
15°	9139	8963	8720
20°	9199	8783	8492
25°	9222	8617	8330
30°	9244	8476	8145
35°	9216	8357	7927
40°	9174	8204	7625
45°	9054	8021	6361
50°	8905	7850	5740
55°	8729	7592	5524
60°	8579	7249	5372
65°	8453	6942	5368
70°	8235	6671	5452
75°	7859	6347	5491
80°	7358	5706	5106
85°	6731	4039	3440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.8	3.0
10°-20°	906.3	8.6
20°-30°	1354.3	12.9
30°-40°	1616.6	15.4
40°-50°	1616.7	15.4
50°-60°	1399.2	13.4
60°-70°	1074.0	10.2
70°-80°	658.1	6.3
80°-90°	185.2	1.8
90°-100°	104.7	1.0
100°-110°	166.2	1.6
110°-120°	194.3	1.9
120°-130°	209.8	2.0
130°-140°	206.7	2.0
140°-150°	182.8	1.7
150°-160°	150.5	1.4
160°-170°	100.7	1.0
170°-180°	35.1	0.3
0°-30°	2579.4	24.6
0°-40°	4196.0	40.0
0°-60°	7211.9	68.8
0°-90°	9129.2	87.1
90°-120°	465.2	4.4
90°-150°	1064.5	10.2
90°-180°	1351.0	12.9
0°-180°	10480.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3368	3368	3368	3368	3368	
5°	3368	3358	3329	3353	3348	320
15°	3280	3275	3217	3159	3130	928
25°	3106	3067	2902	2825	2805	1433
35°	2805	2733	2544	2452	2413	1757
45°	2379	2311	2108	1919	1672	1834
55°	1861	1817	1618	1294	1177	1668
65°	1328	1279	1090	877	843	1311
75°	756	717	610	528	528	797
85°	218	179	131	111	111	228
90°	10	34	53	68	73	15
95°	39	82	111	116	116	38
105°	111	116	165	194	204	117
115°	184	155	194	223	237	180
125°	247	199	223	257	266	220
135°	296	266	247	271	286	228
145°	330	315	276	271	281	206
155°	349	344	325	310	305	161
165°	359	363	354	354	354	102
175°	363	368	368	373	373	35
180°	368	368	368	368	368	



TEST NUMBER: P520698

CATALOG NUMBER: 8WSLA-150-L950-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3367.5	3367.5	3367.5	3367.5	3367.5
2.5°	3377.2	3367.5	3343.2	3367.5	3362.6
5°	3367.5	3357.8	3328.7	3352.9	3348.1
7.5°	3352.9	3343.2	3314.2	3343.2	3338.4
10°	3338.4	3328.7	3299.6	3319.0	3304.5
12.5°	3314.2	3304.5	3270.6	3246.3	3217.3
15°	3280.3	3275.4	3217.3	3159.1	3130.1
17.5°	3251.2	3236.6	3144.6	3076.8	3042.8
20°	3212.4	3188.2	3067.1	2989.5	2965.3
22.5°	3168.8	3130.1	2984.7	2912.0	2892.6
25°	3105.8	3067.1	2902.3	2824.8	2805.4
27.5°	3042.8	2994.4	2820.0	2742.4	2723.0
30°	2975.0	2907.2	2727.9	2655.2	2621.3
32.5°	2897.5	2829.6	2640.7	2558.3	2519.5
35°	2805.4	2732.7	2543.8	2451.7	2413.0
37.5°	2718.2	2640.7	2446.9	2345.1	2291.8
40°	2611.6	2534.1	2335.4	2224.0	2170.7
42.5°	2500.2	2427.5	2228.8	2093.2	1962.3
45°	2379.0	2311.2	2107.7	1918.7	1671.6
47.5°	2253.1	2194.9	1996.3	1739.5	1502.0
50°	2127.1	2068.9	1875.1	1569.9	1371.2
52.5°	2001.1	1952.6	1739.5	1429.4	1264.6
55°	1860.6	1817.0	1618.3	1293.7	1177.4
57.5°	1734.6	1691.0	1477.8	1182.2	1085.3
60°	1594.1	1555.3	1347.0	1070.8	998.1
62.5°	1463.3	1419.7	1216.2	973.9	920.6
65°	1327.6	1279.2	1090.2	877.0	843.1
67.5°	1187.1	1138.6	969.1	789.8	770.4
70°	1046.6	1007.8	847.9	702.6	692.9
72.5°	901.2	857.6	726.8	620.2	620.2
75°	755.9	717.1	610.5	528.1	528.1
77.5°	605.7	586.3	489.4	431.2	436.1
80°	474.8	450.6	368.2	329.5	329.5
82.5°	348.9	319.8	247.1	218.0	227.7
85°	218.0	179.3	130.8	111.4	111.4
87.5°	67.8	53.3	38.8	43.6	43.6
90°	9.7	33.9	53.3	67.8	72.7
92.5°	24.2	63.0	77.5	92.1	96.9
95°	38.8	82.4	111.4	116.3	116.3
97.5°	53.3	92.1	135.7	155.0	155.0
100°	72.7	96.9	145.4	174.4	179.3
102.5°	92.1	106.6	155.0	184.1	193.8
105°	111.4	116.3	164.7	193.8	203.5



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CATALOG NUMBER: 8WSLA-150-L950-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	164.7	145.4	184.1	218.0	227.7
115°	184.1	155.0	193.8	222.9	237.4
117.5°	198.7	169.6	203.5	232.6	242.3
120°	213.2	179.3	208.3	242.3	252.0
122.5°	232.6	189.0	218.0	247.1	261.6
125°	247.1	198.7	222.9	256.8	266.5
127.5°	261.6	218.0	227.7	261.6	271.3
130°	271.3	237.4	232.6	266.5	276.2
132.5°	285.9	252.0	237.4	271.3	281.0
135°	295.6	266.5	247.1	271.3	285.9
137.5°	305.3	281.0	247.1	271.3	281.0
140°	314.9	295.6	252.0	271.3	281.0
142.5°	319.8	305.3	256.8	271.3	281.0
145°	329.5	314.9	276.2	271.3	281.0
147.5°	334.3	324.6	290.7	271.3	281.0
150°	339.2	334.3	305.3	276.2	276.2
152.5°	344.0	339.2	314.9	295.6	285.9
155°	348.9	344.0	324.6	310.1	305.3
157.5°	353.7	353.7	334.3	324.6	319.8
160°	353.7	358.6	344.0	334.3	329.5
162.5°	358.6	363.4	348.9	344.0	339.2
165°	358.6	363.4	353.7	353.7	353.7
167.5°	363.4	368.2	363.4	358.6	358.6
170°	363.4	368.2	363.4	363.4	363.4
172.5°	363.4	368.2	368.2	368.2	368.2
175°	363.4	368.2	368.2	373.1	373.1
177.5°	363.4	368.2	368.2	368.2	368.2
180°	368.2	368.2	368.2	368.2	368.2



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	130.8	126.0	169.6	203.5	213.2
110°	145.4	135.7	179.3	208.3	218.0



(END OF REPORT)