

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: P520697

Luminaire Tested: **8WSLA-150-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: P520697  
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-L950-UPL15-UNV-U  
Description: 8 FOOT, 3000 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**

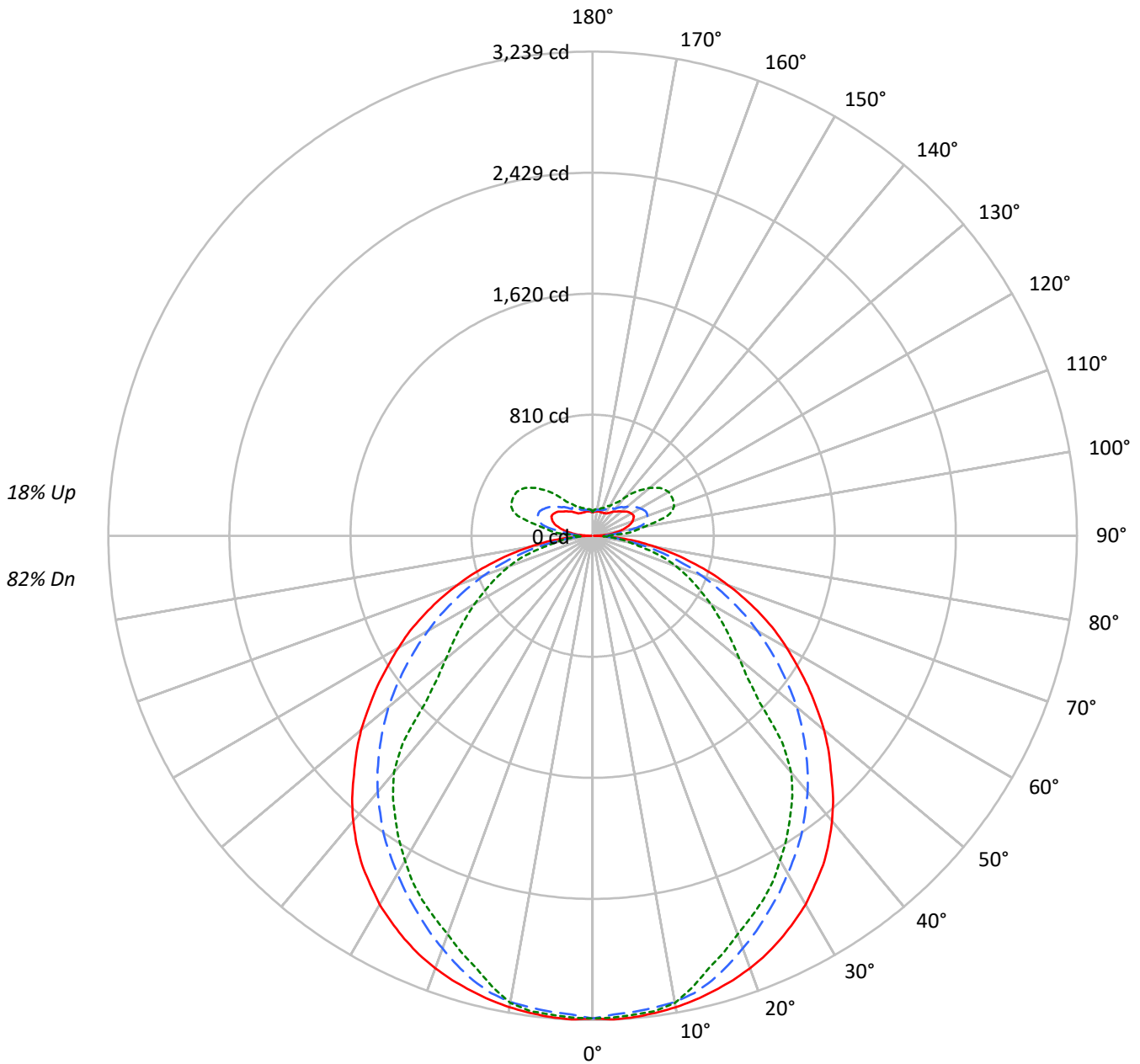
Lumens per Lamp: N/A  
Luminaire Lumens: 10457.0 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 93.6  
Input Voltage (V): NR  
Input Current (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	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°	8689	8689	8689
5°	8731	8633	8686
10°	8751	8653	8671
15°	8776	8585	8347
20°	8815	8412	8121
25°	8838	8245	7992
30°	8853	8110	7794
35°	8832	8004	7563
40°	8754	7857	7259
45°	8587	7664	6019
50°	8459	7458	5360
55°	8250	7159	5101
60°	8072	6838	4900
65°	7882	6464	4754
70°	7575	6054	4663
75°	7150	5550	4290
80°	6546	4669	3806
85°	5863	4045	3841



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.0	2.9
10°-20°	869.3	8.3
20°-30°	1297.3	12.4
30°-40°	1545.7	14.8
40°-50°	1537.5	14.7
50°-60°	1317.7	12.6
60°-70°	992.4	9.5
70°-80°	574.8	5.5
80°-90°	172.7	1.7
90°-100°	185.5	1.8
100°-110°	380.8	3.6
110°-120°	402.7	3.9
120°-130°	335.9	3.2
130°-140°	234.7	2.2
140°-150°	146.1	1.4
150°-160°	90.5	0.9
160°-170°	51.0	0.5
170°-180°	16.4	0.2
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0°-30°	2472.6	23.6
0°-40°	4018.3	38.4
0°-60°	6873.5	65.7
0°-90°	8613.4	82.4
90°-120°	969.0	9.3
90°-150°	1685.6	16.1
90°-180°	1844.0	17.6
0°-180°	10457.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3229	3229	3229	3229	3229	
5°	3232	3222	3196	3219	3216	308
15°	3150	3147	3082	3029	2996	890
25°	2977	2934	2777	2708	2692	1372
35°	2688	2616	2436	2341	2302	1679
45°	2256	2201	2014	1814	1582	1744
55°	1758	1732	1526	1212	1087	1572
65°	1238	1208	1015	789	747	1224
75°	688	665	534	426	413	728
85°	190	167	131	124	124	203
90°	10	46	79	98	105	19
95°	105	141	160	236	255	100
105°	246	255	367	491	521	255
115°	304	259	390	537	589	296
125°	282	249	337	494	557	250
135°	229	249	272	367	422	179
145°	187	216	236	252	268	118
155°	170	180	193	210	213	79
165°	167	174	180	187	187	47
175°	164	167	170	174	177	16
180°	160	160	160	160	160	



TEST NUMBER: P520697

CATALOG NUMBER: 8WSLA-150-L950-UPL15-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3228.8	3228.8	3228.8	3228.8	3228.8
2.5°	3238.7	3232.1	3205.9	3232.1	3225.6
5°	3232.1	3222.3	3196.1	3219.0	3215.7
7.5°	3219.0	3212.5	3183.0	3209.2	3205.9
10°	3202.6	3192.8	3166.6	3186.3	3173.2
12.5°	3179.7	3173.2	3133.9	3117.5	3091.3
15°	3150.2	3147.0	3081.5	3029.1	2996.3
17.5°	3117.5	3104.4	3012.7	2950.5	2921.0
20°	3078.2	3058.5	2937.4	2865.3	2835.9
22.5°	3032.4	3002.9	2862.1	2793.3	2763.8
25°	2976.7	2934.1	2776.9	2708.2	2691.8
27.5°	2914.5	2865.3	2698.3	2629.6	2609.9
30°	2849.0	2786.8	2609.9	2544.4	2508.4
32.5°	2767.1	2708.2	2524.8	2449.5	2410.2
35°	2688.5	2616.5	2436.4	2341.4	2302.1
37.5°	2593.5	2521.5	2334.8	2239.9	2194.0
40°	2492.0	2420.0	2236.6	2125.3	2066.3
42.5°	2380.7	2315.2	2128.5	1994.3	1879.7
45°	2256.3	2200.6	2013.9	1814.2	1581.7
47.5°	2141.6	2089.2	1899.3	1640.6	1401.6
50°	2020.5	1971.4	1781.4	1476.9	1280.4
52.5°	1886.2	1850.2	1653.7	1336.1	1178.9
55°	1758.5	1732.3	1526.0	1211.6	1087.2
57.5°	1624.2	1598.0	1398.3	1093.7	995.5
60°	1499.8	1473.6	1270.6	989.0	910.4
62.5°	1375.4	1339.3	1146.1	887.4	821.9
65°	1237.8	1208.4	1015.1	789.2	746.6
67.5°	1100.3	1074.1	894.0	697.5	668.0
70°	962.8	939.8	769.5	609.1	592.7
72.5°	828.5	799.0	658.2	520.7	514.1
75°	687.7	664.8	533.8	425.7	412.6
77.5°	553.4	533.8	419.2	324.2	314.4
80°	422.4	402.8	301.3	235.8	245.6
82.5°	311.1	284.9	203.0	183.4	193.2
85°	189.9	167.0	131.0	124.4	124.4
87.5°	65.5	62.2	58.9	68.8	72.0
90°	9.8	45.8	78.6	98.2	104.8
92.5°	55.7	81.9	108.1	127.7	134.3
95°	104.8	140.8	160.5	235.8	255.4
97.5°	144.1	186.7	209.6	278.3	298.0
100°	183.4	222.7	294.7	330.7	353.7
102.5°	216.1	245.6	347.1	419.2	432.3
105°	245.6	255.4	366.8	491.2	520.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	294.7	262.0	393.0	533.8	586.2
115°	304.5	258.7	389.7	537.0	589.4
117.5°	304.5	258.7	379.9	537.0	589.4
120°	298.0	262.0	366.8	530.5	586.2
122.5°	291.4	255.4	353.7	517.4	573.1
125°	281.6	248.9	337.3	494.5	556.7
127.5°	265.2	255.4	320.9	465.0	527.2
130°	252.2	258.7	301.3	435.5	497.8
132.5°	242.3	252.2	281.6	402.8	458.5
135°	229.2	248.9	271.8	366.8	422.4
137.5°	219.4	239.1	255.4	334.0	379.9
140°	209.6	232.5	239.1	291.4	330.7
142.5°	196.5	222.7	226.0	271.8	288.2
145°	186.7	216.1	235.8	252.2	268.5
147.5°	176.8	203.0	229.2	232.5	248.9
150°	173.6	189.9	219.4	222.7	229.2
152.5°	170.3	183.4	203.0	222.7	226.0
155°	170.3	180.1	193.2	209.6	212.9
157.5°	167.0	180.1	186.7	199.8	203.0
160°	167.0	176.8	183.4	193.2	196.5
162.5°	167.0	176.8	180.1	189.9	193.2
165°	167.0	173.6	180.1	186.7	186.7
167.5°	167.0	173.6	176.8	183.4	183.4
170°	167.0	170.3	176.8	180.1	180.1
172.5°	163.7	170.3	173.6	180.1	180.1
175°	163.7	167.0	170.3	173.6	176.8
177.5°	157.2	167.0	170.3	173.6	170.3
180°	160.5	160.5	160.5	160.5	160.5



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	268.5	258.7	379.9	517.4	560.0
110°	284.9	262.0	389.7	527.2	579.6



(END OF REPORT)