

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: P520685

Luminaire Tested: **8WSLA-150-L850-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: P520685
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-L850-UPL15-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

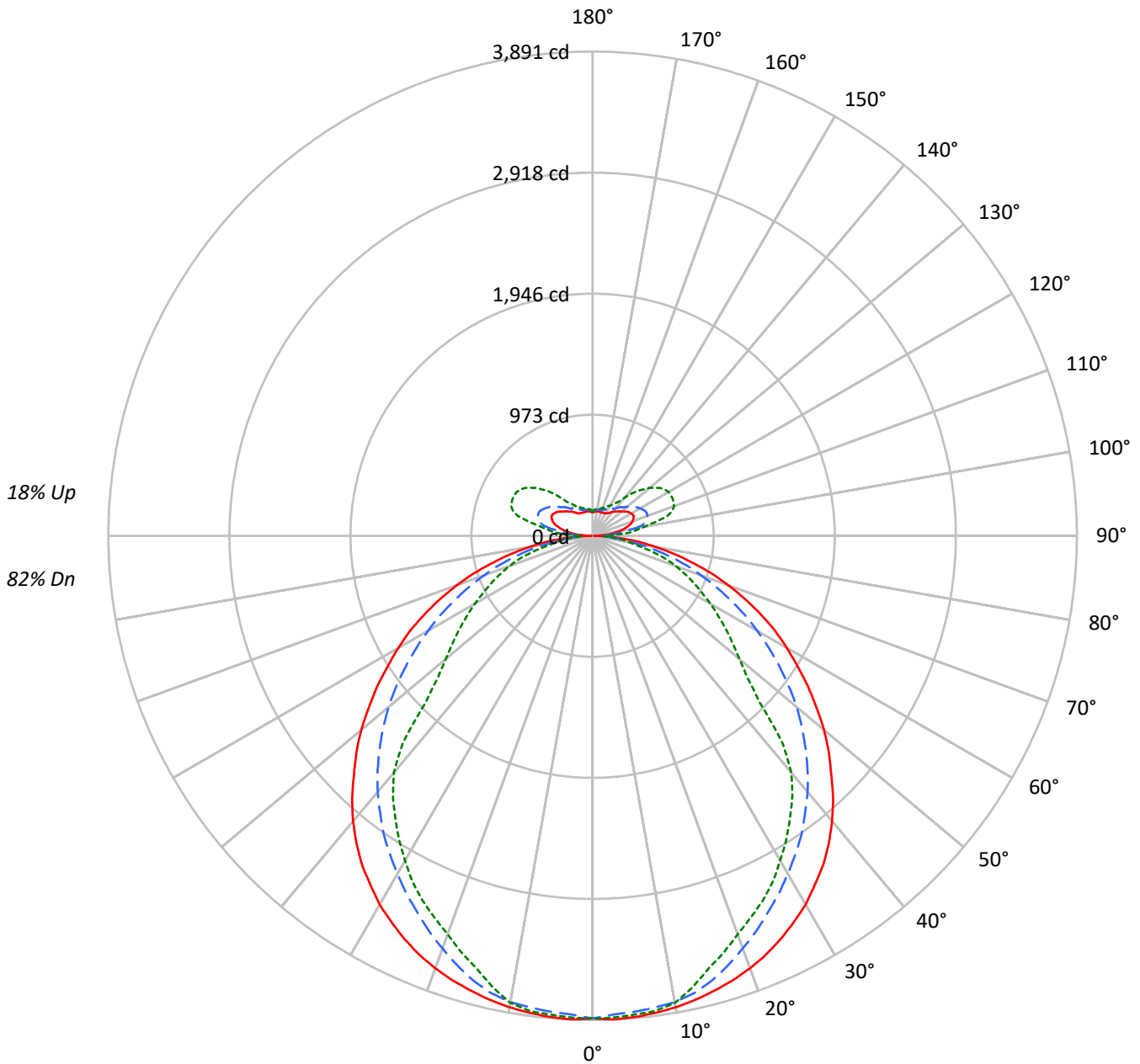
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12562.0 lumens
Efficiency: N/A
Efficacy: 134.2 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

TEST NUMBER: P520685
CATALOG NUMBER: 8WSLA-150-L850-UPL15-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520685

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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°	10438	10438	10438
5°	10488	10371	10435
10°	10513	10395	10416
15°	10543	10313	10028
20°	10589	10105	9756
25°	10617	9905	9601
30°	10635	9742	9363
35°	10610	9615	9085
40°	10516	9438	8720
45°	10315	9207	7231
50°	10161	8959	6439
55°	9911	8601	6127
60°	9697	8214	5886
65°	9468	7765	5711
70°	9100	7274	5602
75°	8589	6667	5154
80°	7865	5608	4572
85°	7046	4860	4616



TEST NUMBER: P520685

CATALOG NUMBER: 8WSLA-150-L850-UPL15-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.6	2.9
10°-20°	1044.2	8.3
20°-30°	1558.4	12.4
30°-40°	1856.9	14.8
40°-50°	1847.0	14.7
50°-60°	1583.0	12.6
60°-70°	1192.2	9.5
70°-80°	690.5	5.5
80°-90°	207.5	1.7
90°-100°	222.8	1.8
100°-110°	457.5	3.6
110°-120°	483.7	3.9
120°-130°	403.6	3.2
130°-140°	281.9	2.2
140°-150°	175.5	1.4
150°-160°	108.8	0.9
160°-170°	61.3	0.5
170°-180°	19.8	0.2
0°-30°	2970.3	23.6
0°-40°	4827.2	38.4
0°-60°	8257.2	65.7
0°-90°	10347.3	82.4
90°-120°	1164.0	9.3
90°-150°	2024.9	16.1
90°-180°	2215.0	17.6
0°-180°	12562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3879	3879	3879	3879	3879	
5°	3883	3871	3840	3867	3863	369
15°	3784	3780	3702	3639	3600	1069
25°	3576	3525	3336	3253	3234	1649
35°	3230	3143	2927	2813	2766	2017
45°	2710	2644	2419	2179	1900	2095
55°	2112	2081	1833	1456	1306	1889
65°	1487	1452	1220	948	897	1470
75°	826	799	641	511	496	875
85°	228	201	157	150	150	243
90°	12	55	94	118	126	23
95°	126	169	193	283	307	120
105°	295	307	441	590	626	306
115°	366	311	468	645	708	356
125°	338	299	405	594	669	300
135°	275	299	326	441	508	215
145°	224	260	283	303	323	142
155°	205	216	232	252	256	94
165°	201	208	216	224	224	57
175°	197	201	205	208	212	19
180°	193	193	193	193	193	



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CATALOG NUMBER: 8WSLA-150-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3878.8	3878.8	3878.8	3878.8	3878.8
2.5°	3890.6	3882.7	3851.3	3882.7	3874.9
5°	3882.7	3870.9	3839.5	3867.0	3863.1
7.5°	3867.0	3859.1	3823.7	3855.2	3851.3
10°	3847.3	3835.5	3804.1	3827.7	3811.9
12.5°	3819.8	3811.9	3764.7	3745.0	3713.6
15°	3784.4	3780.5	3701.8	3638.8	3599.5
17.5°	3745.0	3729.3	3619.2	3544.4	3509.0
20°	3697.8	3674.2	3528.7	3442.1	3406.7
22.5°	3642.8	3607.4	3438.2	3355.6	3320.2
25°	3575.9	3524.7	3335.9	3253.3	3233.6
27.5°	3501.1	3442.1	3241.5	3158.9	3135.3
30°	3422.5	3347.7	3135.3	3056.6	3013.3
32.5°	3324.1	3253.3	3033.0	2942.5	2895.3
35°	3229.7	3143.2	2926.8	2812.7	2765.5
37.5°	3115.6	3029.1	2804.9	2690.8	2635.7
40°	2993.7	2907.1	2686.8	2553.1	2482.3
42.5°	2859.9	2781.2	2557.0	2395.7	2258.0
45°	2710.4	2643.6	2419.3	2179.4	1900.1
47.5°	2572.8	2509.8	2281.6	1970.9	1683.7
50°	2427.2	2368.2	2140.0	1774.2	1538.1
52.5°	2265.9	2222.6	1986.6	1605.0	1416.2
55°	2112.5	2081.0	1833.2	1455.5	1306.0
57.5°	1951.2	1919.7	1679.8	1313.9	1195.9
60°	1801.7	1770.2	1526.3	1188.0	1093.6
62.5°	1652.2	1609.0	1376.9	1066.1	987.4
65°	1487.0	1451.6	1219.5	948.1	896.9
67.5°	1321.8	1290.3	1073.9	837.9	802.5
70°	1156.6	1129.0	924.5	731.7	712.0
72.5°	995.3	959.9	790.7	625.5	617.6
75°	826.1	798.6	641.2	511.4	495.7
77.5°	664.8	641.2	503.5	389.5	377.7
80°	507.5	483.9	361.9	283.2	295.0
82.5°	373.7	342.2	243.9	220.3	232.1
85°	228.2	200.6	157.4	149.5	149.5
87.5°	78.7	74.7	70.8	82.6	86.5
90°	11.8	55.1	94.4	118.0	125.9
92.5°	66.9	98.3	129.8	153.4	161.3
95°	125.9	169.2	192.8	283.2	306.8
97.5°	173.1	224.2	251.8	334.4	358.0
100°	220.3	267.5	354.0	397.3	424.9
102.5°	259.6	295.0	417.0	503.5	519.3
105°	295.0	306.8	440.6	590.1	625.5



TEST NUMBER: P520685

CATALOG NUMBER: 8WSLA-150-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	354.0	314.7	472.1	641.2	704.2
115°	365.9	310.8	468.1	645.2	708.1
117.5°	365.9	310.8	456.3	645.2	708.1
120°	358.0	314.7	440.6	637.3	704.2
122.5°	350.1	306.8	424.9	621.6	688.4
125°	338.3	299.0	405.2	594.0	668.8
127.5°	318.6	306.8	385.5	558.6	633.4
130°	302.9	310.8	361.9	523.2	597.9
132.5°	291.1	302.9	338.3	483.9	550.7
135°	275.4	299.0	326.5	440.6	507.5
137.5°	263.6	287.2	306.8	401.3	456.3
140°	251.8	279.3	287.2	350.1	397.3
142.5°	236.0	267.5	271.4	326.5	346.2
145°	224.2	259.6	283.2	302.9	322.6
147.5°	212.4	243.9	275.4	279.3	299.0
150°	208.5	228.2	263.6	267.5	275.4
152.5°	204.6	220.3	243.9	267.5	271.4
155°	204.6	216.4	232.1	251.8	255.7
157.5°	200.6	216.4	224.2	240.0	243.9
160°	200.6	212.4	220.3	232.1	236.0
162.5°	200.6	212.4	216.4	228.2	232.1
165°	200.6	208.5	216.4	224.2	224.2
167.5°	200.6	208.5	212.4	220.3	220.3
170°	200.6	204.6	212.4	216.4	216.4
172.5°	196.7	204.6	208.5	216.4	216.4
175°	196.7	200.6	204.6	208.5	212.4
177.5°	188.8	200.6	204.6	208.5	204.6
180°	192.8	192.8	192.8	192.8	192.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	322.6	310.8	456.3	621.6	672.7
110°	342.2	314.7	468.1	633.4	696.3



(END OF REPORT)