

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: P520721

Luminaire Tested: **8WSLA-175-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: P520721
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-175-L950-UPL15-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

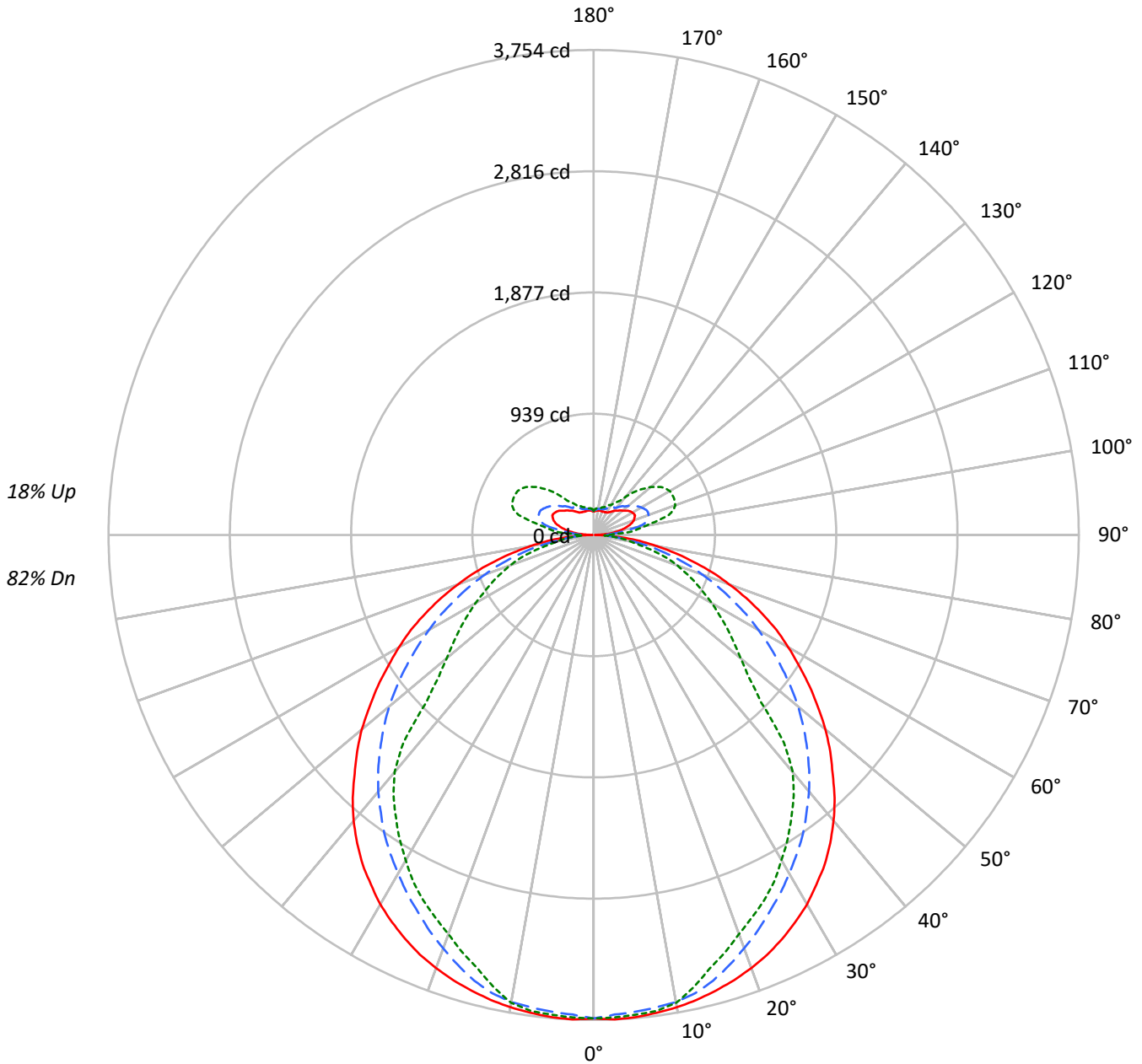
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12122.0 lumens
Efficiency: N/A
Efficacy: 101.9 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): 119
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: P520721
CATALOG NUMBER: 8WSLA-175-L950-UPL15-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520721

CATALOG NUMBER: 8WSLA-175-L950-UPL15-UNV-U

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°	10072	10072	10072
5°	10121	10008	10070
10°	10145	10030	10051
15°	10174	9952	9677
20°	10218	9751	9414
25°	10245	9558	9265
30°	10262	9401	9035
35°	10238	9278	8767
40°	10148	9108	8414
45°	9954	8885	6978
50°	9805	8645	6214
55°	9564	8299	5913
60°	9357	7927	5680
65°	9137	7493	5511
70°	8781	7019	5406
75°	8289	6434	4973
80°	7589	5411	4412
85°	6799	4687	4455



TEST NUMBER: P520721

CATALOG NUMBER: 8WSLA-175-L950-UPL15-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.7	2.9
10°-20°	1007.7	8.3
20°-30°	1503.9	12.4
30°-40°	1791.9	14.8
40°-50°	1782.3	14.7
50°-60°	1527.5	12.6
60°-70°	1150.4	9.5
70°-80°	666.3	5.5
80°-90°	200.2	1.7
90°-100°	215.0	1.8
100°-110°	441.5	3.6
110°-120°	466.8	3.9
120°-130°	389.4	3.2
130°-140°	272.0	2.2
140°-150°	169.3	1.4
150°-160°	105.0	0.9
160°-170°	59.1	0.5
170°-180°	19.1	0.2
0°-30°	2866.3	23.6
0°-40°	4658.1	38.4
0°-60°	7968.0	65.7
0°-90°	9984.9	82.4
90°-120°	1123.2	9.3
90°-150°	1954.0	16.1
90°-180°	2137.0	17.6
0°-180°	12122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3743	3743	3743	3743	3743	
5°	3747	3735	3705	3732	3728	356
15°	3652	3648	3572	3511	3473	1032
25°	3451	3401	3219	3139	3120	1591
35°	3117	3033	2824	2714	2669	1947
45°	2616	2551	2335	2103	1834	2022
55°	2038	2008	1769	1405	1260	1822
65°	1435	1401	1177	915	866	1418
75°	797	771	619	494	478	844
85°	220	194	152	144	144	235
90°	11	53	91	114	122	22
95°	122	163	186	273	296	116
105°	285	296	425	569	604	295
115°	353	300	452	623	683	344
125°	326	288	391	573	645	290
135°	266	288	315	425	490	207
145°	216	250	273	292	311	137
155°	197	209	224	243	247	91
165°	194	201	209	216	216	55
175°	190	194	197	201	205	18
180°	186	186	186	186	186	



TEST NUMBER: P520721

CATALOG NUMBER: 8WSLA-175-L950-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3742.9	3742.9	3742.9	3742.9	3742.9
2.5°	3754.3	3746.7	3716.4	3746.7	3739.1
5°	3746.7	3735.3	3705.0	3731.5	3727.8
7.5°	3731.5	3724.0	3689.8	3720.2	3716.4
10°	3712.6	3701.2	3670.8	3693.6	3678.4
12.5°	3686.0	3678.4	3632.9	3613.9	3583.5
15°	3651.8	3648.0	3572.1	3511.4	3473.4
17.5°	3613.9	3598.7	3492.4	3420.3	3386.1
20°	3568.3	3545.5	3405.1	3321.6	3287.4
22.5°	3515.2	3481.0	3317.8	3238.1	3203.9
25°	3450.6	3401.3	3219.1	3139.4	3120.4
27.5°	3378.5	3321.6	3128.0	3048.3	3025.5
30°	3302.6	3230.5	3025.5	2949.6	2907.8
32.5°	3207.7	3139.4	2926.8	2839.5	2793.9
35°	3116.6	3033.1	2824.3	2714.2	2668.6
37.5°	3006.5	2923.0	2706.6	2596.5	2543.4
40°	2888.8	2805.3	2592.7	2463.7	2395.3
42.5°	2759.8	2683.8	2467.5	2311.8	2179.0
45°	2615.5	2551.0	2334.6	2103.0	1833.5
47.5°	2482.6	2421.9	2201.7	1901.8	1624.7
50°	2342.2	2285.2	2065.1	1712.0	1484.3
52.5°	2186.5	2144.8	1917.0	1548.8	1366.6
55°	2038.5	2008.1	1769.0	1404.6	1260.3
57.5°	1882.9	1852.5	1620.9	1267.9	1154.0
60°	1738.6	1708.2	1472.9	1146.4	1055.3
62.5°	1594.4	1552.6	1328.6	1028.7	952.8
65°	1434.9	1400.8	1176.8	914.9	865.5
67.5°	1275.5	1245.1	1036.3	808.6	774.4
70°	1116.0	1089.5	892.1	706.1	687.1
72.5°	960.4	926.2	763.0	603.6	596.0
75°	797.2	770.6	618.8	493.5	478.3
77.5°	641.5	618.8	485.9	375.8	364.4
80°	489.7	466.9	349.2	273.3	284.7
82.5°	360.6	330.3	235.4	212.6	224.0
85°	220.2	193.6	151.8	144.3	144.3
87.5°	75.9	72.1	68.3	79.7	83.5
90°	11.4	53.1	91.1	113.9	121.5
92.5°	64.5	94.9	125.3	148.0	155.6
95°	121.5	163.2	186.0	273.3	296.1
97.5°	167.0	216.4	242.9	322.7	345.4
100°	212.6	258.1	341.6	383.4	410.0
102.5°	250.5	284.7	402.4	485.9	501.1
105°	284.7	296.1	425.2	569.4	603.6



TEST NUMBER: P520721

CATALOG NUMBER: 8WSLA-175-L950-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	341.6	303.7	455.5	618.8	679.5
115°	353.0	299.9	451.7	622.6	683.3
117.5°	353.0	299.9	440.3	622.6	683.3
120°	345.4	303.7	425.2	615.0	679.5
122.5°	337.9	296.1	410.0	599.8	664.3
125°	326.5	288.5	391.0	573.2	645.3
127.5°	307.5	296.1	372.0	539.0	611.2
130°	292.3	299.9	349.2	504.9	577.0
132.5°	280.9	292.3	326.5	466.9	531.5
135°	265.7	288.5	315.1	425.2	489.7
137.5°	254.3	277.1	296.1	387.2	440.3
140°	242.9	269.5	277.1	337.9	383.4
142.5°	227.8	258.1	261.9	315.1	334.1
145°	216.4	250.5	273.3	292.3	311.3
147.5°	205.0	235.4	265.7	269.5	288.5
150°	201.2	220.2	254.3	258.1	265.7
152.5°	197.4	212.6	235.4	258.1	261.9
155°	197.4	208.8	224.0	242.9	246.7
157.5°	193.6	208.8	216.4	231.6	235.4
160°	193.6	205.0	212.6	224.0	227.8
162.5°	193.6	205.0	208.8	220.2	224.0
165°	193.6	201.2	208.8	216.4	216.4
167.5°	193.6	201.2	205.0	212.6	212.6
170°	193.6	197.4	205.0	208.8	208.8
172.5°	189.8	197.4	201.2	208.8	208.8
175°	189.8	193.6	197.4	201.2	205.0
177.5°	182.2	193.6	197.4	201.2	197.4
180°	186.0	186.0	186.0	186.0	186.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	311.3	299.9	440.3	599.8	649.1
110°	330.3	303.7	451.7	611.2	671.9



(END OF REPORT)