

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: P520673

Luminaire Tested: **8WSLA-125-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: P520673
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-125-L950-UPL15-UNV-U
Description: 8 FOOT, 2500 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

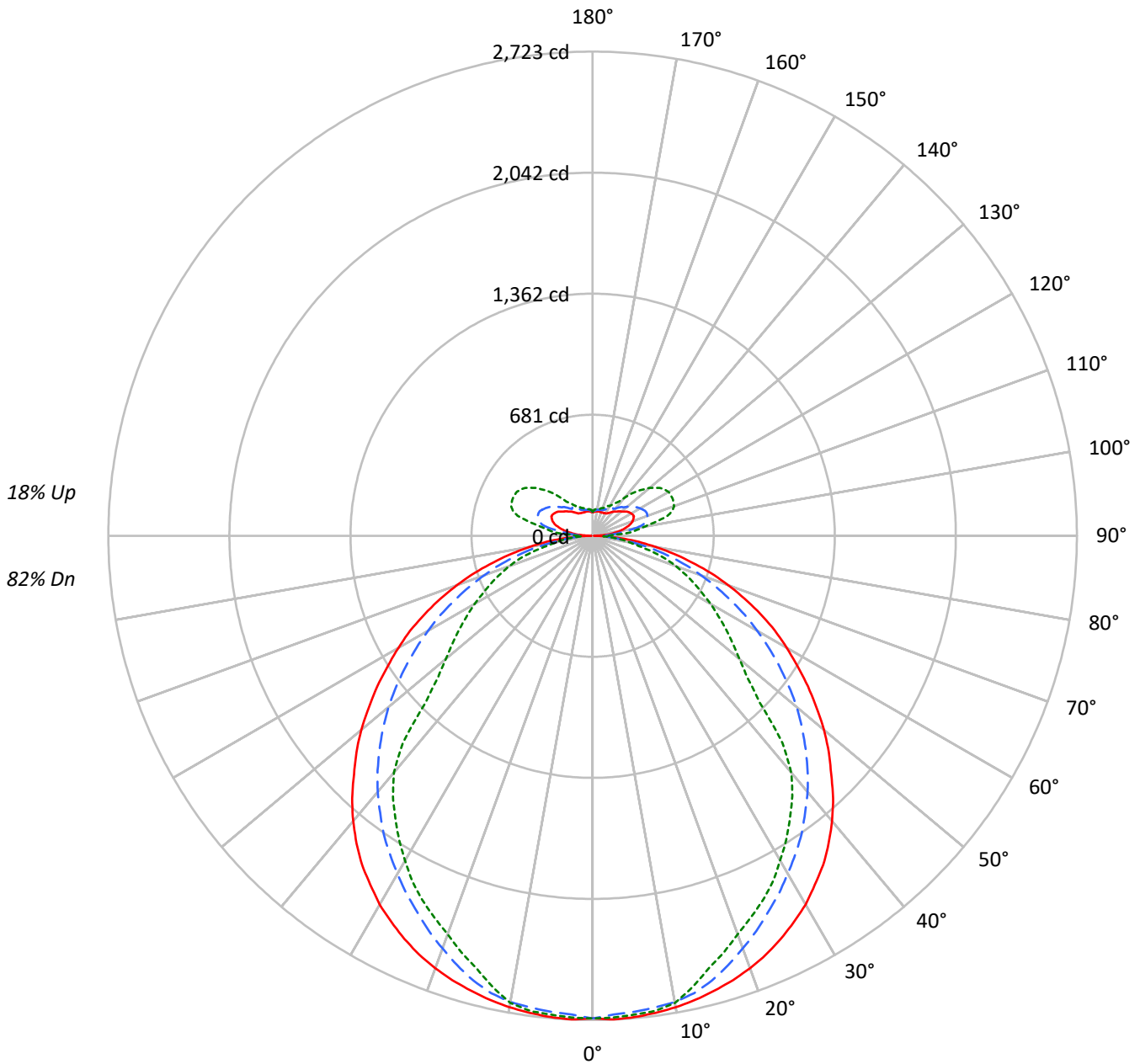
Lumens per Lamp: N/A
Luminaire Lumens: 8791.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 78.2
Input Voltage (V): NR
Input Current (A_{in}): 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°	7304	7304	7304
5°	7340	7258	7303
10°	7357	7274	7289
15°	7378	7217	7018
20°	7411	7072	6827
25°	7430	6932	6719
30°	7442	6818	6553
35°	7425	6728	6358
40°	7359	6605	6102
45°	7218	6443	5060
50°	7111	6270	4506
55°	6936	6019	4288
60°	6786	5748	4119
65°	6626	5434	3997
70°	6368	5090	3921
75°	6011	4665	3607
80°	5503	3925	3200
85°	4931	3399	3230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.3	2.9
10°-20°	730.8	8.3
20°-30°	1090.6	12.4
30°-40°	1299.5	14.8
40°-50°	1292.6	14.7
50°-60°	1107.8	12.6
60°-70°	834.3	9.5
70°-80°	483.2	5.5
80°-90°	145.2	1.7
90°-100°	155.9	1.8
100°-110°	320.2	3.6
110°-120°	338.5	3.9
120°-130°	282.4	3.2
130°-140°	197.3	2.2
140°-150°	122.8	1.4
150°-160°	76.1	0.9
160°-170°	42.9	0.5
170°-180°	13.8	0.2
0°-30°	2078.6	23.6
0°-40°	3378.1	38.4
0°-60°	5778.4	65.7
0°-90°	7241.1	82.4
90°-120°	814.6	9.3
90°-150°	1417.0	16.1
90°-180°	1550.0	17.6
0°-180°	8791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2714	2714	2714	2714	2714	
5°	2717	2709	2687	2706	2703	259
15°	2648	2646	2590	2546	2519	748
25°	2502	2467	2334	2277	2263	1154
35°	2260	2200	2048	1968	1935	1412
45°	1897	1850	1693	1525	1330	1466
55°	1478	1456	1283	1019	914	1322
65°	1041	1016	853	664	628	1029
75°	578	559	449	358	347	612
85°	160	140	110	105	105	170
90°	8	38	66	83	88	16
95°	88	118	135	198	215	84
105°	206	215	308	413	438	214
115°	256	218	328	452	496	249
125°	237	209	284	416	468	210
135°	193	209	228	308	355	150
145°	157	182	198	212	226	100
155°	143	151	162	176	179	66
165°	140	146	151	157	157	40
175°	138	140	143	146	149	13
180°	135	135	135	135	135	



TEST NUMBER: P520673

CATALOG NUMBER: 8WSLA-125-L950-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2714.4	2714.4	2714.4	2714.4	2714.4
2.5°	2722.7	2717.2	2695.1	2717.2	2711.7
5°	2717.2	2708.9	2686.9	2706.2	2703.4
7.5°	2706.2	2700.7	2675.9	2697.9	2695.1
10°	2692.4	2684.1	2662.1	2678.6	2667.6
12.5°	2673.1	2667.6	2634.6	2620.8	2598.8
15°	2648.3	2645.6	2590.5	2546.5	2519.0
17.5°	2620.8	2609.8	2532.7	2480.4	2455.6
20°	2587.8	2571.3	2469.4	2408.8	2384.1
22.5°	2549.2	2524.5	2406.1	2348.3	2323.5
25°	2502.4	2466.7	2334.5	2276.7	2262.9
27.5°	2450.1	2408.8	2268.4	2210.6	2194.1
30°	2395.1	2342.8	2194.1	2139.0	2108.8
32.5°	2326.2	2276.7	2122.5	2059.2	2026.2
35°	2260.2	2199.6	2048.2	1968.4	1935.3
37.5°	2180.3	2119.8	1962.9	1883.0	1844.5
40°	2095.0	2034.4	1880.3	1786.7	1737.1
42.5°	2001.4	1946.3	1789.4	1676.6	1580.2
45°	1896.8	1850.0	1693.1	1525.1	1329.7
47.5°	1800.4	1756.4	1596.7	1379.2	1178.3
50°	1698.6	1657.3	1497.6	1241.6	1076.4
52.5°	1585.7	1555.4	1390.2	1123.2	991.1
55°	1478.3	1456.3	1282.9	1018.6	914.0
57.5°	1365.5	1343.4	1175.5	919.5	836.9
60°	1260.9	1238.8	1068.1	831.4	765.3
62.5°	1156.2	1126.0	963.5	746.1	691.0
65°	1040.6	1015.8	853.4	663.5	627.7
67.5°	925.0	903.0	751.6	586.4	561.6
70°	809.4	790.1	646.9	512.1	498.3
72.5°	696.5	671.7	553.3	437.7	432.2
75°	578.1	558.9	448.7	357.9	346.9
77.5°	465.2	448.7	352.4	272.5	264.3
80°	355.1	338.6	253.3	198.2	206.5
82.5°	261.5	239.5	170.7	154.2	162.4
85°	159.7	140.4	110.1	104.6	104.6
87.5°	55.1	52.3	49.6	57.8	60.6
90°	8.3	38.5	66.1	82.6	88.1
92.5°	46.8	68.8	90.8	107.4	112.9
95°	88.1	118.4	134.9	198.2	214.7
97.5°	121.1	156.9	176.2	234.0	250.5
100°	154.2	187.2	247.8	278.0	297.3
102.5°	181.7	206.5	291.8	352.4	363.4
105°	206.5	214.7	308.3	412.9	437.7



TEST NUMBER: P520673

CATALOG NUMBER: 8WSLA-125-L950-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	247.8	220.2	330.4	448.7	492.8
115°	256.0	217.5	327.6	451.5	495.5
117.5°	256.0	217.5	319.3	451.5	495.5
120°	250.5	220.2	308.3	446.0	492.8
122.5°	245.0	214.7	297.3	435.0	481.8
125°	236.8	209.2	283.6	415.7	468.0
127.5°	223.0	214.7	269.8	390.9	443.2
130°	212.0	217.5	253.3	366.1	418.4
132.5°	203.7	212.0	236.8	338.6	385.4
135°	192.7	209.2	228.5	308.3	355.1
137.5°	184.4	201.0	214.7	280.8	319.3
140°	176.2	195.5	201.0	245.0	278.0
142.5°	165.2	187.2	190.0	228.5	242.3
145°	156.9	181.7	198.2	212.0	225.7
147.5°	148.7	170.7	192.7	195.5	209.2
150°	145.9	159.7	184.4	187.2	192.7
152.5°	143.2	154.2	170.7	187.2	190.0
155°	143.2	151.4	162.4	176.2	178.9
157.5°	140.4	151.4	156.9	167.9	170.7
160°	140.4	148.7	154.2	162.4	165.2
162.5°	140.4	148.7	151.4	159.7	162.4
165°	140.4	145.9	151.4	156.9	156.9
167.5°	140.4	145.9	148.7	154.2	154.2
170°	140.4	143.2	148.7	151.4	151.4
172.5°	137.6	143.2	145.9	151.4	151.4
175°	137.6	140.4	143.2	145.9	148.7
177.5°	132.1	140.4	143.2	145.9	143.2
180°	134.9	134.9	134.9	134.9	134.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	225.7	217.5	319.3	435.0	470.8
110°	239.5	220.2	327.6	443.2	487.3



(END OF REPORT)