

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: P520674

Luminaire Tested: **8WSLA-125-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: P520674
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-125-L950-UPL8-UNV-U
Description: 8 FOOT, 2500 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

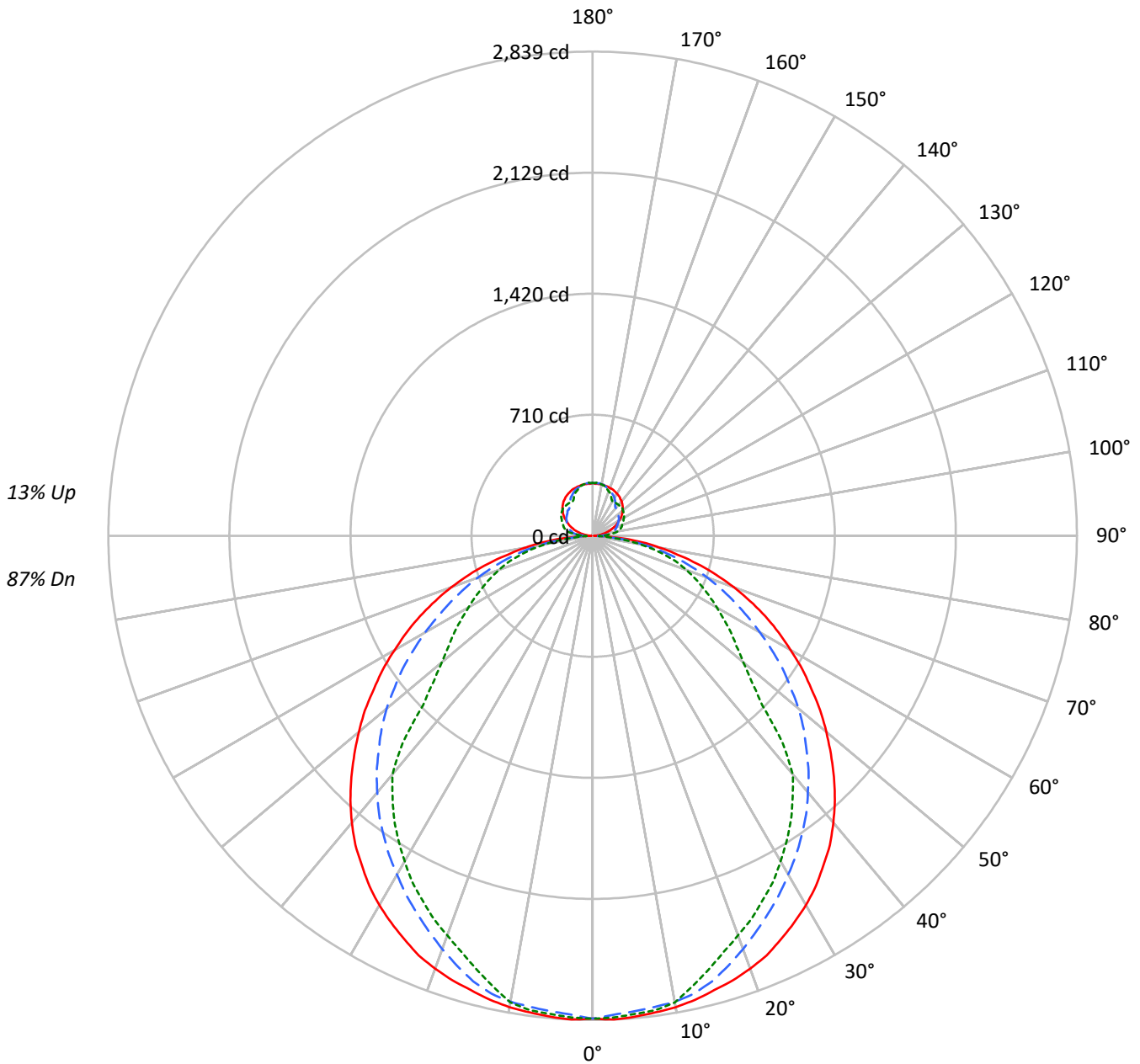
Lumens per Lamp: N/A
Luminaire Lumens: 8811.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 78.2
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: P520674

CATALOG NUMBER: 8WSLA-125-L950-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520674

CATALOG NUMBER: 8WSLA-125-L950-UPL8-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	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°	7619	7619	7619
5°	7648	7560	7604
10°	7669	7580	7591
15°	7683	7536	7331
20°	7734	7384	7139
25°	7753	7245	7003
30°	7772	7127	6848
35°	7748	7026	6664
40°	7713	6897	6411
45°	7612	6744	5348
50°	7487	6600	4826
55°	7339	6383	4644
60°	7213	6095	4517
65°	7107	5836	4513
70°	6923	5609	4583
75°	6607	5337	4616
80°	6186	4798	4293
85°	5659	3396	2893



TEST NUMBER: P520674

CATALOG NUMBER: 8WSLA-125-L950-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	3.0
10°-20°	762.0	8.6
20°-30°	1138.6	12.9
30°-40°	1359.1	15.4
40°-50°	1359.3	15.4
50°-60°	1176.4	13.4
60°-70°	902.9	10.2
70°-80°	553.3	6.3
80°-90°	155.8	1.8
90°-100°	88.0	1.0
100°-110°	139.7	1.6
110°-120°	163.4	1.9
120°-130°	176.4	2.0
130°-140°	173.8	2.0
140°-150°	153.7	1.7
150°-160°	126.5	1.4
160°-170°	84.7	1.0
170°-180°	29.5	0.3
0°-30°	2168.6	24.6
0°-40°	3527.7	40.0
0°-60°	6063.4	68.8
0°-90°	7675.3	87.1
90°-120°	391.1	4.4
90°-150°	895.0	10.2
90°-180°	1136.0	12.9
0°-180°	8811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2831	2831	2831	2831	2831	
5°	2831	2823	2799	2819	2815	269
15°	2758	2754	2705	2656	2632	780
25°	2611	2579	2440	2375	2359	1205
35°	2359	2298	2139	2061	2029	1477
45°	2000	1943	1772	1613	1405	1542
55°	1564	1528	1361	1088	990	1402
65°	1116	1075	917	737	709	1102
75°	636	603	513	444	444	670
85°	183	151	110	94	94	192
90°	8	28	45	57	61	13
95°	33	69	94	98	98	32
105°	94	98	138	163	171	98
115°	155	130	163	187	200	151
125°	208	167	187	216	224	185
135°	248	224	208	228	240	192
145°	277	265	232	228	236	173
155°	293	289	273	261	257	135
165°	301	306	297	297	297	86
175°	306	310	310	314	314	29
180°	310	310	310	310	310	



TEST NUMBER: P520674

CATALOG NUMBER: 8WSLA-125-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2831.2	2831.2	2831.2	2831.2	2831.2
2.5°	2839.3	2831.2	2810.8	2831.2	2827.1
5°	2831.2	2823.0	2798.6	2819.0	2814.9
7.5°	2819.0	2810.8	2786.4	2810.8	2806.7
10°	2806.7	2798.6	2774.2	2790.4	2778.2
12.5°	2786.4	2778.2	2749.7	2729.3	2704.9
15°	2757.9	2753.8	2704.9	2656.0	2631.6
17.5°	2733.4	2721.2	2643.8	2586.8	2558.2
20°	2700.8	2680.5	2578.6	2513.4	2493.1
22.5°	2664.2	2631.6	2509.4	2448.3	2432.0
25°	2611.2	2578.6	2440.1	2374.9	2358.6
27.5°	2558.2	2517.5	2370.9	2305.7	2289.4
30°	2501.2	2444.2	2293.5	2232.4	2203.8
32.5°	2436.0	2379.0	2220.1	2150.9	2118.3
35°	2358.6	2297.5	2138.7	2061.3	2028.7
37.5°	2285.3	2220.1	2057.2	1971.6	1926.8
40°	2195.7	2130.5	1963.5	1869.8	1825.0
42.5°	2102.0	2040.9	1873.9	1759.8	1649.8
45°	2000.2	1943.1	1772.0	1613.2	1405.4
47.5°	1894.2	1845.4	1678.3	1462.4	1262.8
50°	1788.3	1739.4	1576.5	1319.9	1152.8
52.5°	1682.4	1641.7	1462.4	1201.7	1063.2
55°	1564.3	1527.6	1360.6	1087.7	989.9
57.5°	1458.4	1421.7	1242.5	994.0	912.5
60°	1340.2	1307.6	1132.5	900.3	839.2
62.5°	1230.2	1193.6	1022.5	818.8	774.0
65°	1116.2	1075.4	916.6	737.3	708.8
67.5°	998.0	957.3	814.7	664.0	647.7
70°	879.9	847.3	712.9	590.7	582.5
72.5°	757.7	721.0	611.0	521.4	521.4
75°	635.5	602.9	513.3	444.0	444.0
77.5°	509.2	492.9	411.4	362.6	366.6
80°	399.2	378.8	309.6	277.0	277.0
82.5°	293.3	268.9	207.8	183.3	191.5
85°	183.3	150.7	110.0	93.7	93.7
87.5°	57.0	44.8	32.6	36.7	36.7
90°	8.1	28.5	44.8	57.0	61.1
92.5°	20.4	53.0	65.2	77.4	81.5
95°	32.6	69.3	93.7	97.8	97.8
97.5°	44.8	77.4	114.1	130.4	130.4
100°	61.1	81.5	122.2	146.7	150.7
102.5°	77.4	89.6	130.4	154.8	162.9
105°	93.7	97.8	138.5	162.9	171.1



TEST NUMBER: P520674

CATALOG NUMBER: 8WSLA-125-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	122.2	154.8	183.3	191.5
115°	154.8	130.4	162.9	187.4	199.6
117.5°	167.0	142.6	171.1	195.5	203.7
120°	179.2	150.7	175.2	203.7	211.8
122.5°	195.5	158.9	183.3	207.8	220.0
125°	207.8	167.0	187.4	215.9	224.1
127.5°	220.0	183.3	191.5	220.0	228.1
130°	228.1	199.6	195.5	224.1	232.2
132.5°	240.3	211.8	199.6	228.1	236.3
135°	248.5	224.1	207.8	228.1	240.3
137.5°	256.6	236.3	207.8	228.1	236.3
140°	264.8	248.5	211.8	228.1	236.3
142.5°	268.9	256.6	215.9	228.1	236.3
145°	277.0	264.8	232.2	228.1	236.3
147.5°	281.1	272.9	244.4	228.1	236.3
150°	285.2	281.1	256.6	232.2	232.2
152.5°	289.2	285.2	264.8	248.5	240.3
155°	293.3	289.2	272.9	260.7	256.6
157.5°	297.4	297.4	281.1	272.9	268.9
160°	297.4	301.4	289.2	281.1	277.0
162.5°	301.4	305.5	293.3	289.2	285.2
165°	301.4	305.5	297.4	297.4	297.4
167.5°	305.5	309.6	305.5	301.4	301.4
170°	305.5	309.6	305.5	305.5	305.5
172.5°	305.5	309.6	309.6	309.6	309.6
175°	305.5	309.6	309.6	313.7	313.7
177.5°	305.5	309.6	309.6	309.6	309.6
180°	309.6	309.6	309.6	309.6	309.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	110.0	105.9	142.6	171.1	179.2
110°	122.2	114.1	150.7	175.2	183.3



(END OF REPORT)