

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: P520665

Luminaire Tested: **8WSLA-125-L930-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: P520665
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-L930-UPL8-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

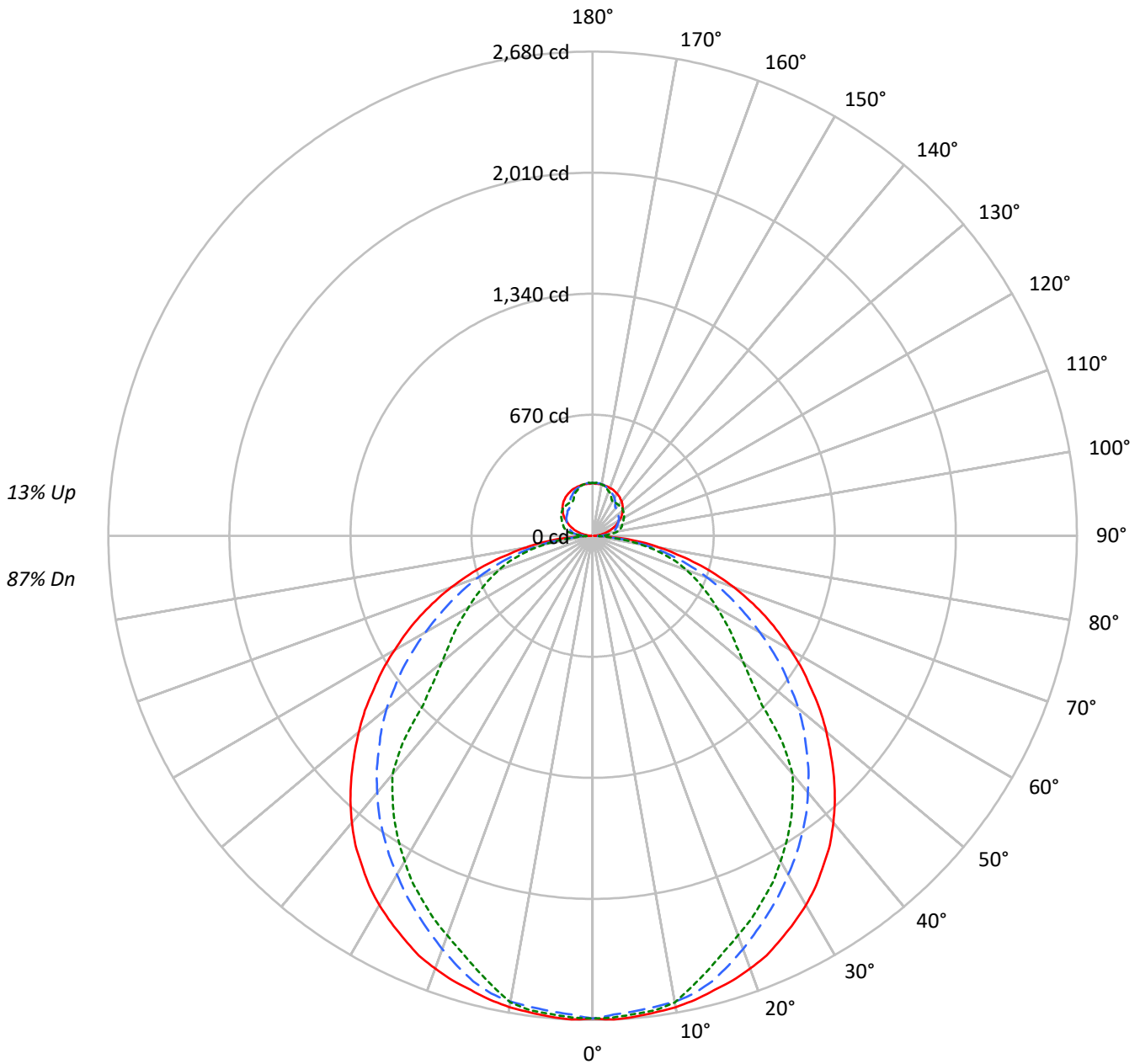
Lumens per Lamp: N/A
Luminaire Lumens: 8317.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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: P520665

CATALOG NUMBER: 8WSLA-125-L930-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520665

CATALOG NUMBER: 8WSLA-125-L930-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°	7191	7191	7191
5°	7219	7136	7178
10°	7239	7155	7166
15°	7252	7113	6920
20°	7301	6970	6739
25°	7318	6839	6611
30°	7336	6727	6464
35°	7314	6632	6291
40°	7281	6511	6052
45°	7185	6366	5049
50°	7067	6230	4556
55°	6928	6025	4384
60°	6809	5753	4263
65°	6709	5509	4260
70°	6535	5294	4327
75°	6237	5037	4357
80°	5839	4528	4052
85°	5341	3205	2729



TEST NUMBER: P520665

CATALOG NUMBER: 8WSLA-125-L930-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.0	3.0
10°-20°	719.3	8.6
20°-30°	1074.7	12.9
30°-40°	1282.9	15.4
40°-50°	1283.0	15.4
50°-60°	1110.4	13.4
60°-70°	852.3	10.2
70°-80°	522.2	6.3
80°-90°	147.0	1.8
90°-100°	83.1	1.0
100°-110°	131.9	1.6
110°-120°	154.2	1.9
120°-130°	166.5	2.0
130°-140°	164.0	2.0
140°-150°	145.1	1.7
150°-160°	119.4	1.4
160°-170°	79.9	1.0
170°-180°	27.8	0.3
0°-30°	2047.0	24.6
0°-40°	3330.0	40.0
0°-60°	5723.4	68.8
0°-90°	7245.0	87.1
90°-120°	369.2	4.4
90°-150°	844.8	10.2
90°-180°	1072.0	12.9
0°-180°	8317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2672	2672	2672	2672	2672	
5°	2672	2665	2642	2661	2657	254
15°	2603	2599	2553	2507	2484	736
25°	2465	2434	2303	2242	2226	1137
35°	2226	2169	2019	1946	1915	1394
45°	1888	1834	1673	1523	1327	1456
55°	1477	1442	1284	1027	934	1324
65°	1054	1015	865	696	669	1041
75°	600	569	484	419	419	633
85°	173	142	104	88	88	181
90°	8	27	42	54	58	12
95°	31	65	88	92	92	30
105°	88	92	131	154	162	93
115°	146	123	154	177	188	143
125°	196	158	177	204	212	175
135°	235	212	196	215	227	181
145°	262	250	219	215	223	163
155°	277	273	258	246	242	128
165°	284	288	281	281	281	81
175°	288	292	292	296	296	28
180°	292	292	292	292	292	



TEST NUMBER: P520665

CATALOG NUMBER: 8WSLA-125-L930-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2672.4	2672.4	2672.4	2672.4	2672.4
2.5°	2680.1	2672.4	2653.2	2672.4	2668.6
5°	2672.4	2664.8	2641.7	2660.9	2657.1
7.5°	2660.9	2653.2	2630.2	2653.2	2649.4
10°	2649.4	2641.7	2618.6	2634.0	2622.5
12.5°	2630.2	2622.5	2595.5	2576.3	2553.2
15°	2603.2	2599.4	2553.2	2507.1	2484.0
17.5°	2580.2	2568.6	2495.6	2441.7	2414.8
20°	2549.4	2530.2	2434.0	2372.5	2353.3
22.5°	2514.8	2484.0	2368.7	2311.0	2295.6
25°	2464.8	2434.0	2303.3	2241.8	2226.4
27.5°	2414.8	2376.4	2237.9	2176.4	2161.0
30°	2361.0	2307.1	2164.9	2107.2	2080.3
32.5°	2299.5	2245.6	2095.7	2030.3	1999.5
35°	2226.4	2168.7	2018.8	1945.7	1914.9
37.5°	2157.2	2095.7	1941.9	1861.1	1818.8
40°	2072.6	2011.1	1853.4	1765.0	1722.7
42.5°	1984.1	1926.5	1768.8	1661.1	1557.3
45°	1888.0	1834.2	1672.7	1522.7	1326.6
47.5°	1788.0	1741.9	1584.2	1380.4	1192.0
50°	1688.1	1641.9	1488.1	1245.9	1088.2
52.5°	1588.1	1549.6	1380.4	1134.3	1003.6
55°	1476.6	1442.0	1284.3	1026.7	934.4
57.5°	1376.6	1342.0	1172.8	938.2	861.3
60°	1265.1	1234.3	1069.0	849.8	792.1
62.5°	1161.3	1126.7	965.2	772.9	730.6
65°	1053.6	1015.1	865.2	696.0	669.1
67.5°	942.1	903.6	769.0	626.8	611.4
70°	830.6	799.8	672.9	557.6	549.9
72.5°	715.2	680.6	576.8	492.2	492.2
75°	599.9	569.1	484.5	419.1	419.1
77.5°	480.7	465.3	388.4	342.2	346.1
80°	376.8	357.6	292.2	261.5	261.5
82.5°	276.9	253.8	196.1	173.0	180.7
85°	173.0	142.3	103.8	88.4	88.4
87.5°	53.8	42.3	30.8	34.6	34.6
90°	7.7	26.9	42.3	53.8	57.7
92.5°	19.2	50.0	61.5	73.1	76.9
95°	30.8	65.4	88.4	92.3	92.3
97.5°	42.3	73.1	107.7	123.0	123.0
100°	57.7	76.9	115.4	138.4	142.3
102.5°	73.1	84.6	123.0	146.1	153.8
105°	88.4	92.3	130.7	153.8	161.5



TEST NUMBER: P520665

CATALOG NUMBER: 8WSLA-125-L930-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	130.7	115.4	146.1	173.0	180.7
115°	146.1	123.0	153.8	176.9	188.4
117.5°	157.7	134.6	161.5	184.6	192.3
120°	169.2	142.3	165.3	192.3	200.0
122.5°	184.6	150.0	173.0	196.1	207.6
125°	196.1	157.7	176.9	203.8	211.5
127.5°	207.6	173.0	180.7	207.6	215.3
130°	215.3	188.4	184.6	211.5	219.2
132.5°	226.9	200.0	188.4	215.3	223.0
135°	234.6	211.5	196.1	215.3	226.9
137.5°	242.3	223.0	196.1	215.3	223.0
140°	249.9	234.6	200.0	215.3	223.0
142.5°	253.8	242.3	203.8	215.3	223.0
145°	261.5	249.9	219.2	215.3	223.0
147.5°	265.3	257.6	230.7	215.3	223.0
150°	269.2	265.3	242.3	219.2	219.2
152.5°	273.0	269.2	249.9	234.6	226.9
155°	276.9	273.0	257.6	246.1	242.3
157.5°	280.7	280.7	265.3	257.6	253.8
160°	280.7	284.5	273.0	265.3	261.5
162.5°	284.5	288.4	276.9	273.0	269.2
165°	284.5	288.4	280.7	280.7	280.7
167.5°	288.4	292.2	288.4	284.5	284.5
170°	288.4	292.2	288.4	288.4	288.4
172.5°	288.4	292.2	292.2	292.2	292.2
175°	288.4	292.2	292.2	296.1	296.1
177.5°	288.4	292.2	292.2	292.2	292.2
180°	292.2	292.2	292.2	292.2	292.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	103.8	100.0	134.6	161.5	169.2
110°	115.4	107.7	142.3	165.3	173.0



(END OF REPORT)