

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: P520664

Luminaire Tested: **8WSLA-125-L930-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: P520664  
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-L930-UPL15-UNV-U  
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

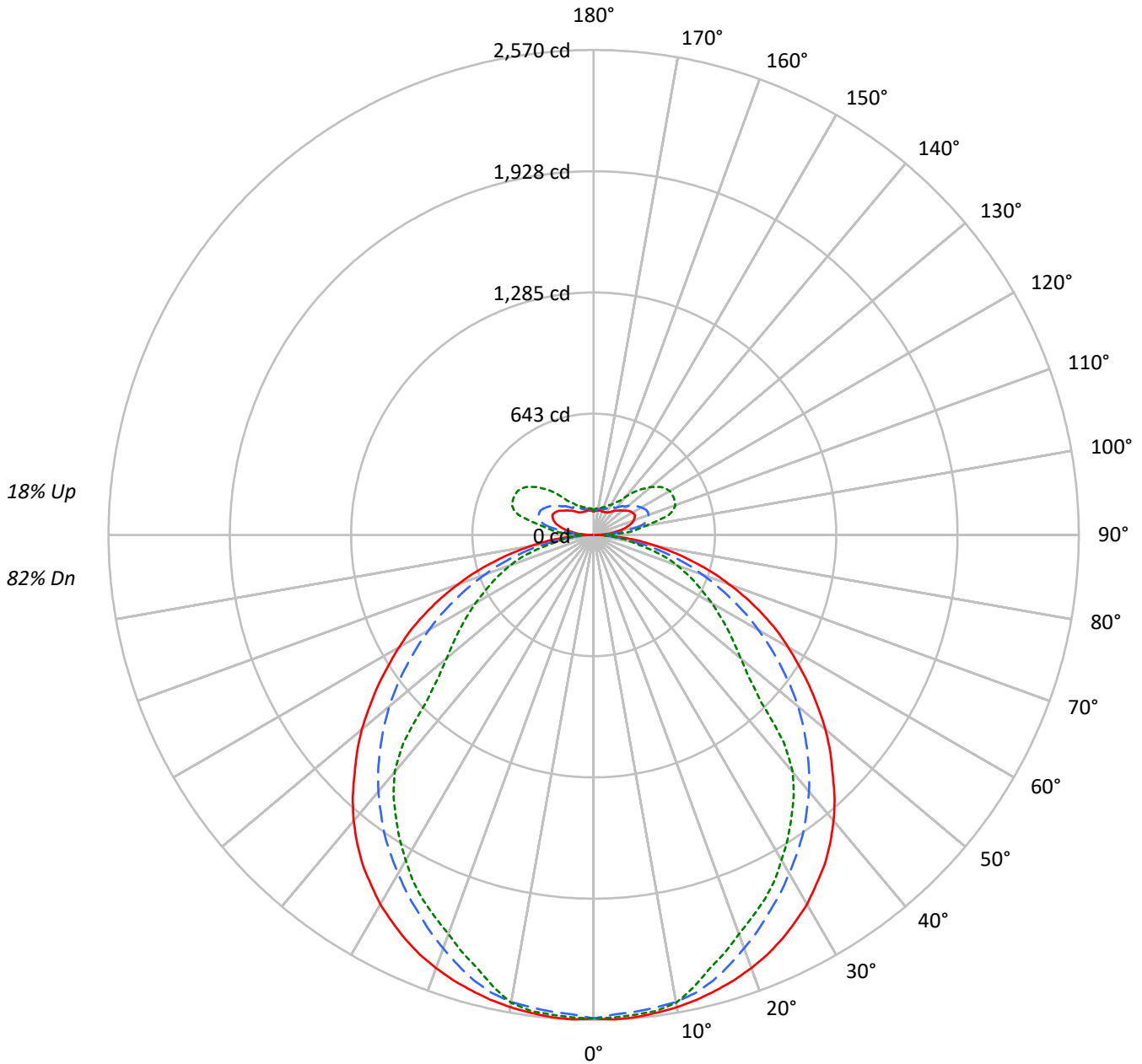
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8298.0 lumens  
Efficiency: N/A  
Efficacy: 106.1 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<sub>in</sub>): 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°	6895	6895	6895
5°	6928	6851	6893
10°	6944	6866	6880
15°	6964	6812	6624
20°	6995	6675	6444
25°	7013	6543	6342
30°	7025	6435	6185
35°	7008	6351	6001
40°	6947	6235	5760
45°	6814	6082	4776
50°	6712	5918	4253
55°	6547	5681	4047
60°	6405	5426	3888
65°	6255	5130	3773
70°	6011	4805	3700
75°	5674	4404	3404
80°	5195	3705	3020
85°	4653	3208	3047



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.8	2.9
10°-20°	689.8	8.3
20°-30°	1029.5	12.4
30°-40°	1226.6	14.8
40°-50°	1220.1	14.7
50°-60°	1045.6	12.6
60°-70°	787.5	9.5
70°-80°	456.1	5.5
80°-90°	137.1	1.7
90°-100°	147.2	1.8
100°-110°	302.2	3.6
110°-120°	319.5	3.9
120°-130°	266.6	3.2
130°-140°	186.2	2.2
140°-150°	115.9	1.4
150°-160°	71.8	0.9
160°-170°	40.5	0.5
170°-180°	13.0	0.2
0°-30°	1962.1	23.6
0°-40°	3188.7	38.4
0°-60°	5454.4	65.7
0°-90°	6835.1	82.4
90°-120°	768.9	9.3
90°-150°	1337.6	16.1
90°-180°	1463.0	17.6
0°-180°	8298.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2562	2562	2562	2562	2562	
5°	2565	2557	2536	2554	2552	244
15°	2500	2497	2445	2404	2378	706
25°	2362	2328	2204	2149	2136	1089
35°	2133	2076	1933	1858	1827	1333
45°	1790	1746	1598	1440	1255	1384
55°	1395	1375	1211	962	863	1247
65°	982	959	806	626	592	971
75°	546	528	424	338	327	578
85°	151	132	104	99	99	161
90°	8	36	62	78	83	15
95°	83	112	127	187	203	80
105°	195	203	291	390	413	202
115°	242	205	309	426	468	235
125°	224	198	268	392	442	199
135°	182	198	216	291	335	142
145°	148	172	187	200	213	94
155°	135	143	153	166	169	62
165°	132	138	143	148	148	38
175°	130	132	135	138	140	12
180°	127	127	127	127	127	



TEST NUMBER: P520664

CATALOG NUMBER: 8WSLA-125-L930-UPL15-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2562.2	2562.2	2562.2	2562.2	2562.2
2.5°	2570.0	2564.8	2544.0	2564.8	2559.6
5°	2564.8	2557.0	2536.2	2554.4	2551.8
7.5°	2554.4	2549.2	2525.8	2546.6	2544.0
10°	2541.4	2533.6	2512.8	2528.4	2518.0
12.5°	2523.2	2518.0	2486.8	2473.8	2453.1
15°	2499.8	2497.2	2445.3	2403.7	2377.7
17.5°	2473.8	2463.4	2390.7	2341.3	2317.9
20°	2442.7	2427.1	2330.9	2273.8	2250.4
22.5°	2406.3	2382.9	2271.2	2216.6	2193.2
25°	2362.1	2328.3	2203.6	2149.0	2136.0
27.5°	2312.7	2273.8	2141.2	2086.7	2071.1
30°	2260.8	2211.4	2071.1	2019.1	1990.5
32.5°	2195.8	2149.0	2003.5	1943.7	1912.5
35°	2133.4	2076.3	1933.3	1858.0	1826.8
37.5°	2058.1	2000.9	1852.8	1777.4	1741.0
40°	1977.5	1920.3	1774.8	1686.5	1639.7
42.5°	1889.2	1837.2	1689.1	1582.5	1491.6
45°	1790.4	1746.2	1598.1	1439.6	1255.1
47.5°	1699.5	1657.9	1507.2	1301.9	1112.2
50°	1603.3	1564.3	1413.6	1172.0	1016.0
52.5°	1496.8	1468.2	1312.3	1060.2	935.5
55°	1395.4	1374.6	1210.9	961.5	862.7
57.5°	1288.9	1268.1	1109.6	867.9	790.0
60°	1190.1	1169.4	1008.2	784.8	722.4
62.5°	1091.4	1062.8	909.5	704.2	652.2
65°	982.3	958.9	805.6	626.3	592.5
67.5°	873.1	852.3	709.4	553.5	530.1
70°	764.0	745.8	610.7	483.3	470.3
72.5°	657.4	634.1	522.3	413.2	408.0
75°	545.7	527.5	423.6	337.8	327.4
77.5°	439.2	423.6	332.6	257.3	249.5
80°	335.2	319.6	239.1	187.1	194.9
82.5°	246.9	226.1	161.1	145.5	153.3
85°	150.7	132.5	103.9	98.7	98.7
87.5°	52.0	49.4	46.8	54.6	57.2
90°	7.8	36.4	62.4	78.0	83.2
92.5°	44.2	65.0	85.8	101.3	106.5
95°	83.2	111.7	127.3	187.1	202.7
97.5°	114.3	148.1	166.3	220.9	236.5
100°	145.5	176.7	233.9	262.5	280.6
102.5°	171.5	194.9	275.4	332.6	343.0
105°	194.9	202.7	291.0	389.8	413.2



TEST NUMBER: P520664

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	233.9	207.9	311.8	423.6	465.1
115°	241.7	205.3	309.2	426.2	467.7
117.5°	241.7	205.3	301.4	426.2	467.7
120°	236.5	207.9	291.0	421.0	465.1
122.5°	231.3	202.7	280.6	410.6	454.8
125°	223.5	197.5	267.7	392.4	441.8
127.5°	210.5	202.7	254.7	369.0	418.4
130°	200.1	205.3	239.1	345.6	395.0
132.5°	192.3	200.1	223.5	319.6	363.8
135°	181.9	197.5	215.7	291.0	335.2
137.5°	174.1	189.7	202.7	265.1	301.4
140°	166.3	184.5	189.7	231.3	262.5
142.5°	155.9	176.7	179.3	215.7	228.7
145°	148.1	171.5	187.1	200.1	213.1
147.5°	140.3	161.1	181.9	184.5	197.5
150°	137.7	150.7	174.1	176.7	181.9
152.5°	135.1	145.5	161.1	176.7	179.3
155°	135.1	142.9	153.3	166.3	168.9
157.5°	132.5	142.9	148.1	158.5	161.1
160°	132.5	140.3	145.5	153.3	155.9
162.5°	132.5	140.3	142.9	150.7	153.3
165°	132.5	137.7	142.9	148.1	148.1
167.5°	132.5	137.7	140.3	145.5	145.5
170°	132.5	135.1	140.3	142.9	142.9
172.5°	129.9	135.1	137.7	142.9	142.9
175°	129.9	132.5	135.1	137.7	140.3
177.5°	124.7	132.5	135.1	137.7	135.1
180°	127.3	127.3	127.3	127.3	127.3



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	213.1	205.3	301.4	410.6	444.4
110°	226.1	207.9	309.2	418.4	459.9



(END OF REPORT)