

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: P520667

Luminaire Tested: **8WSLA-125-L935-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: P520667
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-L935-UPL15-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

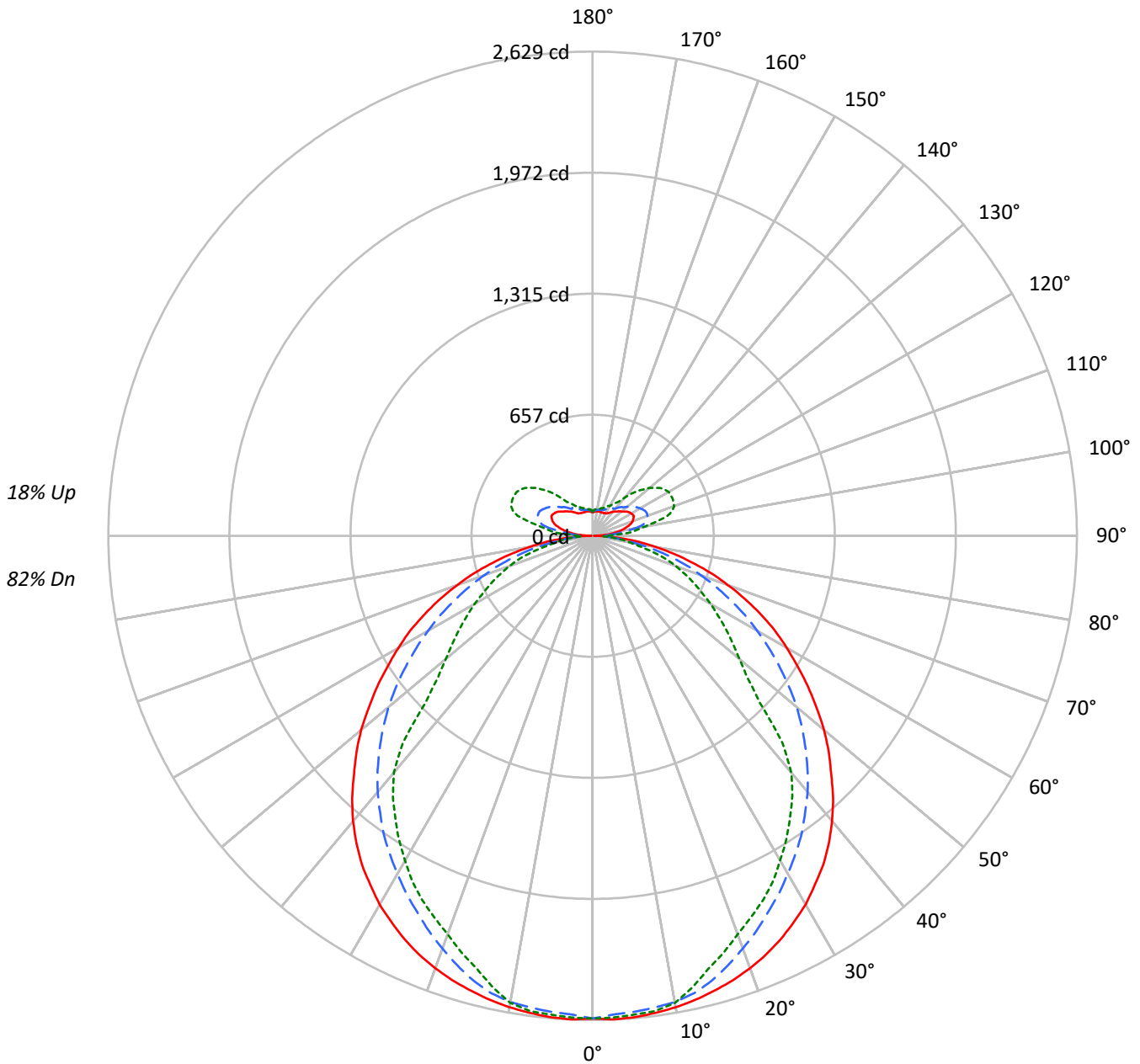
Lumens per Lamp: N/A
Luminaire Lumens: 8488.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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

TEST NUMBER: P520667

CATALOG NUMBER: 8WSLA-125-L935-UPL15-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520667

CATALOG NUMBER: 8WSLA-125-L935-UPL15-UNV-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					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°	7053	7053	7053
5°	7087	7008	7051
10°	7103	7024	7038
15°	7124	6968	6776
20°	7155	6828	6592
25°	7174	6693	6487
30°	7186	6583	6327
35°	7169	6497	6138
40°	7106	6378	5892
45°	6970	6221	4886
50°	6866	6054	4351
55°	6697	5811	4140
60°	6552	5550	3977
65°	6398	5247	3859
70°	6149	4914	3785
75°	5804	4505	3482
80°	5314	3789	3090
85°	4761	3282	3118



TEST NUMBER: P520667

CATALOG NUMBER: 8WSLA-125-L935-UPL15-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.4	2.9
10°-20°	705.6	8.3
20°-30°	1053.0	12.4
30°-40°	1254.7	14.8
40°-50°	1248.0	14.7
50°-60°	1069.6	12.6
60°-70°	805.5	9.5
70°-80°	466.5	5.5
80°-90°	140.2	1.7
90°-100°	150.5	1.8
100°-110°	309.1	3.6
110°-120°	326.8	3.9
120°-130°	272.7	3.2
130°-140°	190.5	2.2
140°-150°	118.6	1.4
150°-160°	73.5	0.9
160°-170°	41.4	0.5
170°-180°	13.3	0.2
0°-30°	2007.0	23.6
0°-40°	3261.7	38.4
0°-60°	5579.3	65.7
0°-90°	6991.5	82.4
90°-120°	786.5	9.3
90°-150°	1368.2	16.1
90°-180°	1496.0	17.6
0°-180°	8488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2621	2621	2621	2621	2621	
5°	2624	2616	2594	2613	2610	250
15°	2557	2554	2501	2459	2432	723
25°	2416	2382	2254	2198	2185	1114
35°	2182	2124	1978	1900	1869	1363
45°	1831	1786	1635	1473	1284	1416
55°	1427	1406	1239	984	882	1276
65°	1005	981	824	641	606	993
75°	558	540	433	346	335	591
85°	154	136	106	101	101	164
90°	8	37	64	80	85	16
95°	85	114	130	191	207	81
105°	199	207	298	399	423	207
115°	247	210	316	436	478	241
125°	229	202	274	401	452	203
135°	186	202	221	298	343	145
145°	152	175	191	205	218	96
155°	138	146	157	170	173	64
165°	136	141	146	152	152	38
175°	133	136	138	141	144	13
180°	130	130	130	130	130	



TEST NUMBER: P520667

CATALOG NUMBER: 8WSLA-125-L935-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2620.9	2620.9	2620.9	2620.9	2620.9
2.5°	2628.8	2623.5	2602.3	2623.5	2618.2
5°	2623.5	2615.5	2594.3	2612.9	2610.2
7.5°	2612.9	2607.6	2583.6	2604.9	2602.3
10°	2599.6	2591.6	2570.4	2586.3	2575.7
12.5°	2581.0	2575.7	2543.8	2530.5	2509.2
15°	2557.1	2554.4	2501.2	2458.7	2432.1
17.5°	2530.5	2519.9	2445.4	2394.9	2371.0
20°	2498.6	2482.6	2384.3	2325.8	2301.9
22.5°	2461.4	2437.5	2323.2	2267.3	2243.4
25°	2416.2	2381.6	2254.0	2198.2	2184.9
27.5°	2365.7	2325.8	2190.3	2134.4	2118.5
30°	2312.5	2262.0	2118.5	2065.3	2036.1
32.5°	2246.1	2198.2	2049.4	1988.2	1956.3
35°	2182.3	2123.8	1977.6	1900.5	1868.6
37.5°	2105.2	2046.7	1895.2	1818.1	1780.9
40°	2022.8	1964.3	1815.5	1725.1	1677.2
42.5°	1932.4	1879.3	1727.7	1618.8	1525.7
45°	1831.4	1786.2	1634.7	1472.6	1283.8
47.5°	1738.4	1695.8	1541.7	1331.7	1137.7
50°	1640.0	1600.2	1446.0	1198.8	1039.3
52.5°	1531.0	1501.8	1342.3	1084.5	956.9
55°	1427.4	1406.1	1238.7	983.5	882.5
57.5°	1318.4	1297.1	1135.0	887.8	808.1
60°	1217.4	1196.1	1031.3	802.7	738.9
62.5°	1116.4	1087.2	930.3	720.3	667.2
65°	1004.8	980.8	824.0	640.6	606.0
67.5°	893.1	871.8	725.7	566.2	542.2
70°	781.5	762.9	624.6	494.4	481.1
72.5°	672.5	648.6	534.3	422.6	417.3
75°	558.2	539.6	433.3	345.5	334.9
77.5°	449.2	433.3	340.2	263.1	255.2
80°	342.9	326.9	244.5	191.4	199.4
82.5°	252.5	231.3	164.8	148.9	156.8
85°	154.2	135.6	106.3	101.0	101.0
87.5°	53.2	50.5	47.8	55.8	58.5
90°	8.0	37.2	63.8	79.7	85.1
92.5°	45.2	66.5	87.7	103.7	109.0
95°	85.1	114.3	130.2	191.4	207.3
97.5°	117.0	151.5	170.1	225.9	241.9
100°	148.9	180.7	239.2	268.5	287.1
102.5°	175.4	199.4	281.8	340.2	350.9
105°	199.4	207.3	297.7	398.7	422.6



TEST NUMBER: P520667

CATALOG NUMBER: 8WSLA-125-L935-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.2	212.6	319.0	433.3	475.8
115°	247.2	210.0	316.3	435.9	478.5
117.5°	247.2	210.0	308.3	435.9	478.5
120°	241.9	212.6	297.7	430.6	475.8
122.5°	236.6	207.3	287.1	420.0	465.2
125°	228.6	202.0	273.8	401.4	451.9
127.5°	215.3	207.3	260.5	377.4	427.9
130°	204.7	210.0	244.5	353.5	404.0
132.5°	196.7	204.7	228.6	326.9	372.1
135°	186.1	202.0	220.6	297.7	342.9
137.5°	178.1	194.0	207.3	271.1	308.3
140°	170.1	188.7	194.0	236.6	268.5
142.5°	159.5	180.7	183.4	220.6	233.9
145°	151.5	175.4	191.4	204.7	218.0
147.5°	143.5	164.8	186.1	188.7	202.0
150°	140.9	154.2	178.1	180.7	186.1
152.5°	138.2	148.9	164.8	180.7	183.4
155°	138.2	146.2	156.8	170.1	172.8
157.5°	135.6	146.2	151.5	162.1	164.8
160°	135.6	143.5	148.9	156.8	159.5
162.5°	135.6	143.5	146.2	154.2	156.8
165°	135.6	140.9	146.2	151.5	151.5
167.5°	135.6	140.9	143.5	148.9	148.9
170°	135.6	138.2	143.5	146.2	146.2
172.5°	132.9	138.2	140.9	146.2	146.2
175°	132.9	135.6	138.2	140.9	143.5
177.5°	127.6	135.6	138.2	140.9	138.2
180°	130.2	130.2	130.2	130.2	130.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	218.0	210.0	308.3	420.0	454.5
110°	231.3	212.6	316.3	427.9	470.5



(END OF REPORT)