

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: P520652

Luminaire Tested: **8WSLA-125-L830-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: P520652
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-L830-UPL15-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

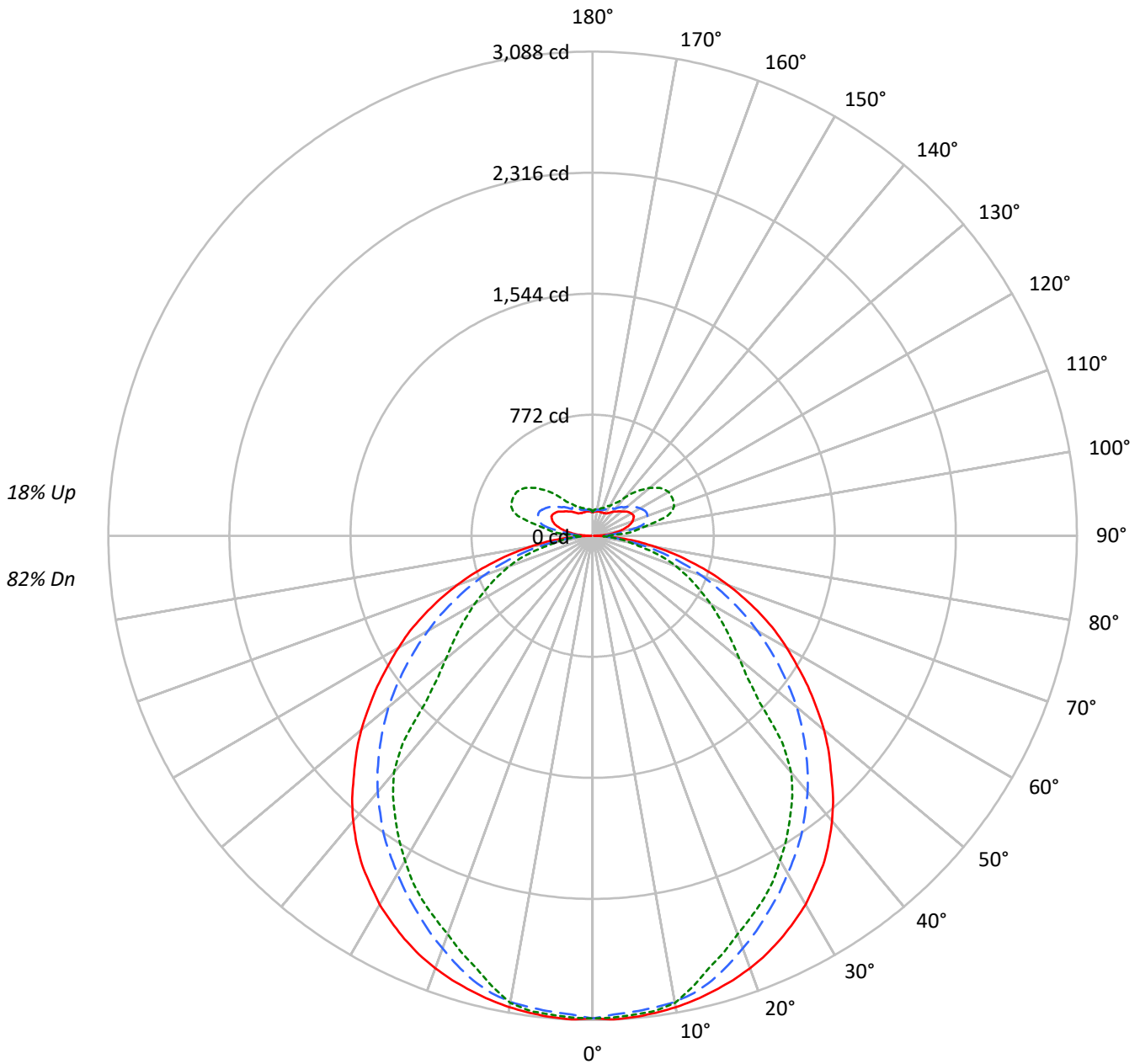
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9969.0 lumens
Efficiency: N/A
Efficacy: 127.5 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 (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

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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°	8283	8283	8283
5°	8323	8230	8281
10°	8343	8249	8266
15°	8367	8184	7958
20°	8403	8019	7742
25°	8426	7860	7619
30°	8439	7731	7430
35°	8420	7630	7210
40°	8345	7490	6920
45°	8186	7306	5738
50°	8064	7110	5110
55°	7865	6825	4863
60°	7695	6519	4671
65°	7514	6162	4532
70°	7221	5772	4446
75°	6816	5291	4090
80°	6241	4451	3628
85°	5592	3856	3662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.7	2.9
10°-20°	828.7	8.3
20°-30°	1236.7	12.4
30°-40°	1473.6	14.8
40°-50°	1465.8	14.7
50°-60°	1256.2	12.6
60°-70°	946.1	9.5
70°-80°	547.9	5.5
80°-90°	164.7	1.7
90°-100°	176.8	1.8
100°-110°	363.1	3.6
110°-120°	383.9	3.9
120°-130°	320.3	3.2
130°-140°	223.7	2.2
140°-150°	139.2	1.4
150°-160°	86.3	0.9
160°-170°	48.6	0.5
170°-180°	15.7	0.2
0°-30°	2357.2	23.6
0°-40°	3830.8	38.4
0°-60°	6552.8	65.7
0°-90°	8211.5	82.4
90°-120°	923.7	9.3
90°-150°	1606.9	16.1
90°-180°	1758.0	17.6
0°-180°	9969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3078	3078	3078	3078	3078	
5°	3081	3072	3047	3069	3066	293
15°	3003	3000	2938	2888	2856	849
25°	2838	2797	2647	2582	2566	1308
35°	2563	2494	2323	2232	2195	1601
45°	2151	2098	1920	1730	1508	1663
55°	1676	1652	1455	1155	1036	1499
65°	1180	1152	968	752	712	1167
75°	656	634	509	406	393	694
85°	181	159	125	119	119	193
90°	9	44	75	94	100	18
95°	100	134	153	225	244	96
105°	234	244	350	468	496	243
115°	290	247	372	512	562	283
125°	268	237	322	471	531	238
135°	218	237	259	350	403	171
145°	178	206	225	240	256	113
155°	162	172	184	200	203	75
165°	159	166	172	178	178	45
175°	156	159	162	166	169	15
180°	153	153	153	153	153	



TEST NUMBER: P520652

CATALOG NUMBER: 8WSLA-125-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3078.2	3078.2	3078.2	3078.2	3078.2
2.5°	3087.5	3081.3	3056.3	3081.3	3075.0
5°	3081.3	3071.9	3046.9	3068.8	3065.7
7.5°	3068.8	3062.5	3034.4	3059.4	3056.3
10°	3053.2	3043.8	3018.8	3037.6	3025.1
12.5°	3031.3	3025.1	2987.6	2972.0	2947.0
15°	3003.2	3000.1	2937.7	2887.7	2856.5
17.5°	2972.0	2959.5	2872.1	2812.8	2784.7
20°	2934.5	2915.8	2800.3	2731.6	2703.5
22.5°	2890.8	2862.7	2728.5	2662.9	2634.8
25°	2837.8	2797.2	2647.3	2581.8	2566.2
27.5°	2778.5	2731.6	2572.4	2506.9	2488.1
30°	2716.0	2656.7	2488.1	2425.7	2391.3
32.5°	2638.0	2581.8	2407.0	2335.1	2297.7
35°	2563.0	2494.4	2322.7	2232.1	2194.7
37.5°	2472.5	2403.8	2225.9	2135.3	2091.6
40°	2375.7	2307.1	2132.2	2026.1	1969.9
42.5°	2269.6	2207.2	2029.2	1901.2	1791.9
45°	2151.0	2097.9	1919.9	1729.5	1507.9
47.5°	2041.7	1991.7	1810.7	1564.1	1336.2
50°	1926.2	1879.4	1698.3	1408.0	1220.6
52.5°	1798.2	1763.8	1576.5	1273.7	1123.9
55°	1676.4	1651.5	1454.8	1155.1	1036.5
57.5°	1548.4	1523.5	1333.0	1042.7	949.0
60°	1429.8	1404.8	1211.3	942.8	867.9
62.5°	1311.2	1276.8	1092.6	846.0	783.6
65°	1180.1	1152.0	967.8	752.4	711.8
67.5°	1048.9	1024.0	852.3	665.0	636.9
70°	917.8	896.0	733.6	580.7	565.1
72.5°	789.8	761.7	627.5	496.4	490.1
75°	655.6	633.7	508.9	405.8	393.4
77.5°	527.6	508.9	399.6	309.1	299.7
80°	402.7	384.0	287.2	224.8	234.1
82.5°	296.6	271.6	193.6	174.8	184.2
85°	181.1	159.2	124.9	118.6	118.6
87.5°	62.4	59.3	56.2	65.6	68.7
90°	9.4	43.7	74.9	93.7	99.9
92.5°	53.1	78.0	103.0	121.8	128.0
95°	99.9	134.2	153.0	224.8	243.5
97.5°	137.4	177.9	199.8	265.4	284.1
100°	174.8	212.3	281.0	315.3	337.2
102.5°	206.0	234.1	330.9	399.6	412.1
105°	234.1	243.5	349.6	468.3	496.4



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CATALOG NUMBER: 8WSLA-125-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	281.0	249.7	374.6	508.9	558.8
115°	290.3	246.6	371.5	512.0	561.9
117.5°	290.3	246.6	362.1	512.0	561.9
120°	284.1	249.7	349.6	505.7	558.8
122.5°	277.8	243.5	337.2	493.3	546.3
125°	268.5	237.3	321.6	471.4	530.7
127.5°	252.9	243.5	305.9	443.3	502.6
130°	240.4	246.6	287.2	415.2	474.5
132.5°	231.0	240.4	268.5	384.0	437.1
135°	218.5	237.3	259.1	349.6	402.7
137.5°	209.2	227.9	243.5	318.4	362.1
140°	199.8	221.7	227.9	277.8	315.3
142.5°	187.3	212.3	215.4	259.1	274.7
145°	177.9	206.0	224.8	240.4	256.0
147.5°	168.6	193.6	218.5	221.7	237.3
150°	165.5	181.1	209.2	212.3	218.5
152.5°	162.3	174.8	193.6	212.3	215.4
155°	162.3	171.7	184.2	199.8	202.9
157.5°	159.2	171.7	177.9	190.4	193.6
160°	159.2	168.6	174.8	184.2	187.3
162.5°	159.2	168.6	171.7	181.1	184.2
165°	159.2	165.5	171.7	177.9	177.9
167.5°	159.2	165.5	168.6	174.8	174.8
170°	159.2	162.3	168.6	171.7	171.7
172.5°	156.1	162.3	165.5	171.7	171.7
175°	156.1	159.2	162.3	165.5	168.6
177.5°	149.8	159.2	162.3	165.5	162.3
180°	153.0	153.0	153.0	153.0	153.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	256.0	246.6	362.1	493.3	533.8
110°	271.6	249.7	371.5	502.6	552.6



(END OF REPORT)