

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: P520653

Luminaire Tested: **8WSLA-125-L830-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: P520653
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-L830-UPL8-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

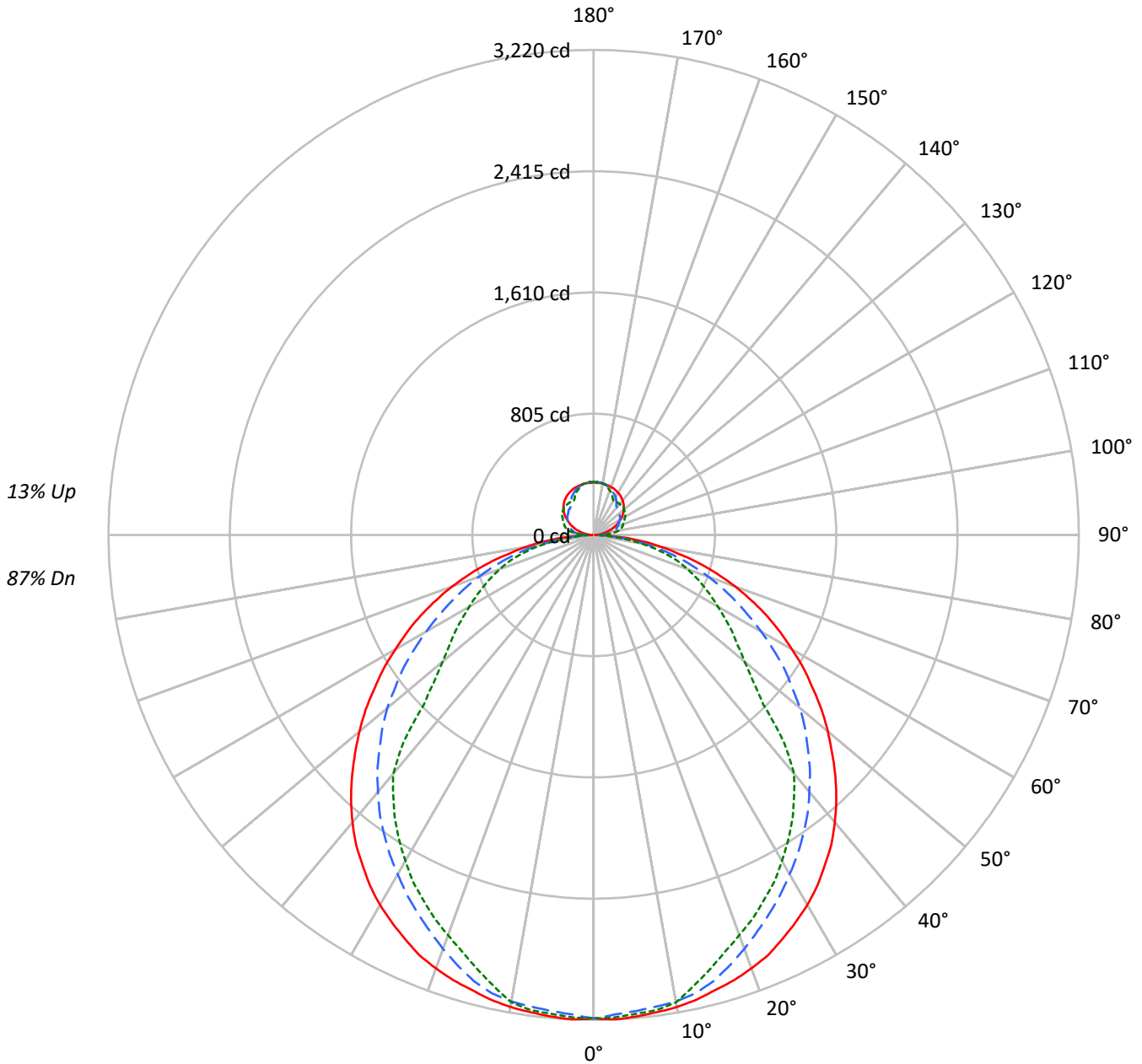
Lumens per Lamp: N/A
Luminaire Lumens: 9992.0 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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

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Luminous Intensity Polar Plot





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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	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°	8640	8640	8640
5°	8673	8573	8623
10°	8697	8596	8609
15°	8713	8546	8314
20°	8771	8374	8096
25°	8792	8216	7942
30°	8814	8082	7766
35°	8787	7967	7558
40°	8747	7822	7270
45°	8632	7648	6065
50°	8490	7484	5473
55°	8323	7239	5267
60°	8180	6912	5122
65°	8060	6618	5118
70°	7851	6360	5198
75°	7493	6052	5235
80°	7015	5441	4868
85°	6419	3850	3282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.9	3.0
10°-20°	864.1	8.6
20°-30°	1291.2	12.9
30°-40°	1541.3	15.4
40°-50°	1541.5	15.4
50°-60°	1334.1	13.4
60°-70°	1024.0	10.2
70°-80°	627.4	6.3
80°-90°	176.6	1.8
90°-100°	99.8	1.0
100°-110°	158.5	1.6
110°-120°	185.3	1.9
120°-130°	200.0	2.0
130°-140°	197.1	2.0
140°-150°	174.3	1.7
150°-160°	143.5	1.4
160°-170°	96.0	1.0
170°-180°	33.4	0.3
0°-30°	2459.3	24.6
0°-40°	4000.6	40.0
0°-60°	6876.1	68.8
0°-90°	8704.1	87.1
90°-120°	443.5	4.4
90°-150°	1014.9	10.2
90°-180°	1288.0	12.9
0°-180°	9992.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3211	3211	3211	3211	3211	
5°	3211	3201	3174	3197	3192	306
15°	3128	3123	3068	3012	2984	885
25°	2961	2924	2767	2693	2675	1366
35°	2675	2606	2425	2338	2301	1675
45°	2268	2204	2010	1829	1594	1749
55°	1774	1732	1543	1233	1123	1590
65°	1266	1220	1039	836	804	1250
75°	721	684	582	504	504	760
85°	208	171	125	106	106	217
90°	9	32	51	65	69	15
95°	37	78	106	111	111	36
105°	106	111	157	185	194	112
115°	176	148	185	212	226	172
125°	236	189	212	245	254	210
135°	282	254	236	259	273	217
145°	314	300	263	259	268	196
155°	333	328	310	296	291	153
165°	342	346	337	337	337	97
175°	346	351	351	356	356	33
180°	351	351	351	351	351	



TEST NUMBER: P520653

CATALOG NUMBER: 8WSLA-125-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3210.7	3210.7	3210.7	3210.7	3210.7
2.5°	3219.9	3210.7	3187.6	3210.7	3206.0
5°	3210.7	3201.4	3173.7	3196.8	3192.2
7.5°	3196.8	3187.6	3159.8	3187.6	3182.9
10°	3182.9	3173.7	3146.0	3164.5	3150.6
12.5°	3159.8	3150.6	3118.3	3095.2	3067.5
15°	3127.5	3122.9	3067.5	3012.0	2984.3
17.5°	3099.8	3085.9	2998.2	2933.5	2901.1
20°	3062.8	3039.7	2924.2	2850.3	2827.2
22.5°	3021.3	2984.3	2845.7	2776.4	2757.9
25°	2961.2	2924.2	2767.2	2693.3	2674.8
27.5°	2901.1	2855.0	2688.6	2614.7	2596.2
30°	2836.5	2771.8	2600.9	2531.6	2499.2
32.5°	2762.6	2697.9	2517.7	2439.2	2402.2
35°	2674.8	2605.5	2425.3	2337.5	2300.6
37.5°	2591.6	2517.7	2332.9	2235.9	2185.1
40°	2490.0	2416.1	2226.7	2120.4	2069.6
42.5°	2383.7	2314.5	2125.0	1995.7	1871.0
45°	2268.3	2203.6	2009.6	1829.4	1593.8
47.5°	2148.1	2092.7	1903.3	1658.5	1432.1
50°	2028.0	1972.6	1787.8	1496.8	1307.4
52.5°	1907.9	1861.7	1658.5	1362.8	1205.7
55°	1774.0	1732.4	1543.0	1233.4	1122.6
57.5°	1653.8	1612.3	1409.0	1127.2	1034.8
60°	1519.9	1482.9	1284.3	1020.9	951.7
62.5°	1395.1	1353.6	1159.5	928.6	877.7
65°	1265.8	1219.6	1039.4	836.2	803.8
67.5°	1131.8	1085.6	923.9	753.0	734.5
70°	997.8	960.9	808.4	669.9	660.6
72.5°	859.3	817.7	692.9	591.3	591.3
75°	720.7	683.7	582.1	503.5	503.5
77.5°	577.5	559.0	466.6	411.1	415.8
80°	452.7	429.6	351.1	314.1	314.1
82.5°	332.6	304.9	235.6	207.9	217.1
85°	207.9	170.9	124.7	106.3	106.3
87.5°	64.7	50.8	37.0	41.6	41.6
90°	9.2	32.3	50.8	64.7	69.3
92.5°	23.1	60.1	73.9	87.8	92.4
95°	37.0	78.5	106.3	110.9	110.9
97.5°	50.8	87.8	129.4	147.8	147.8
100°	69.3	92.4	138.6	166.3	170.9
102.5°	87.8	101.6	147.8	175.5	184.8
105°	106.3	110.9	157.1	184.8	194.0



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CATALOG NUMBER: 8WSLA-125-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	157.1	138.6	175.5	207.9	217.1
115°	175.5	147.8	184.8	212.5	226.4
117.5°	189.4	161.7	194.0	221.7	231.0
120°	203.3	170.9	198.6	231.0	240.2
122.5°	221.7	180.2	207.9	235.6	249.5
125°	235.6	189.4	212.5	244.8	254.1
127.5°	249.5	207.9	217.1	249.5	258.7
130°	258.7	226.4	221.7	254.1	263.3
132.5°	272.6	240.2	226.4	258.7	267.9
135°	281.8	254.1	235.6	258.7	272.6
137.5°	291.0	267.9	235.6	258.7	267.9
140°	300.3	281.8	240.2	258.7	267.9
142.5°	304.9	291.0	244.8	258.7	267.9
145°	314.1	300.3	263.3	258.7	267.9
147.5°	318.8	309.5	277.2	258.7	267.9
150°	323.4	318.8	291.0	263.3	263.3
152.5°	328.0	323.4	300.3	281.8	272.6
155°	332.6	328.0	309.5	295.7	291.0
157.5°	337.2	337.2	318.8	309.5	304.9
160°	337.2	341.9	328.0	318.8	314.1
162.5°	341.9	346.5	332.6	328.0	323.4
165°	341.9	346.5	337.2	337.2	337.2
167.5°	346.5	351.1	346.5	341.9	341.9
170°	346.5	351.1	346.5	346.5	346.5
172.5°	346.5	351.1	351.1	351.1	351.1
175°	346.5	351.1	351.1	355.7	355.7
177.5°	346.5	351.1	351.1	351.1	351.1
180°	351.1	351.1	351.1	351.1	351.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	124.7	120.1	161.7	194.0	203.3
110°	138.6	129.4	170.9	198.6	207.9



(END OF REPORT)