

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: P520659

Luminaire Tested: **8WSLA-125-L840-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: P520659
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-L840-UPL8-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

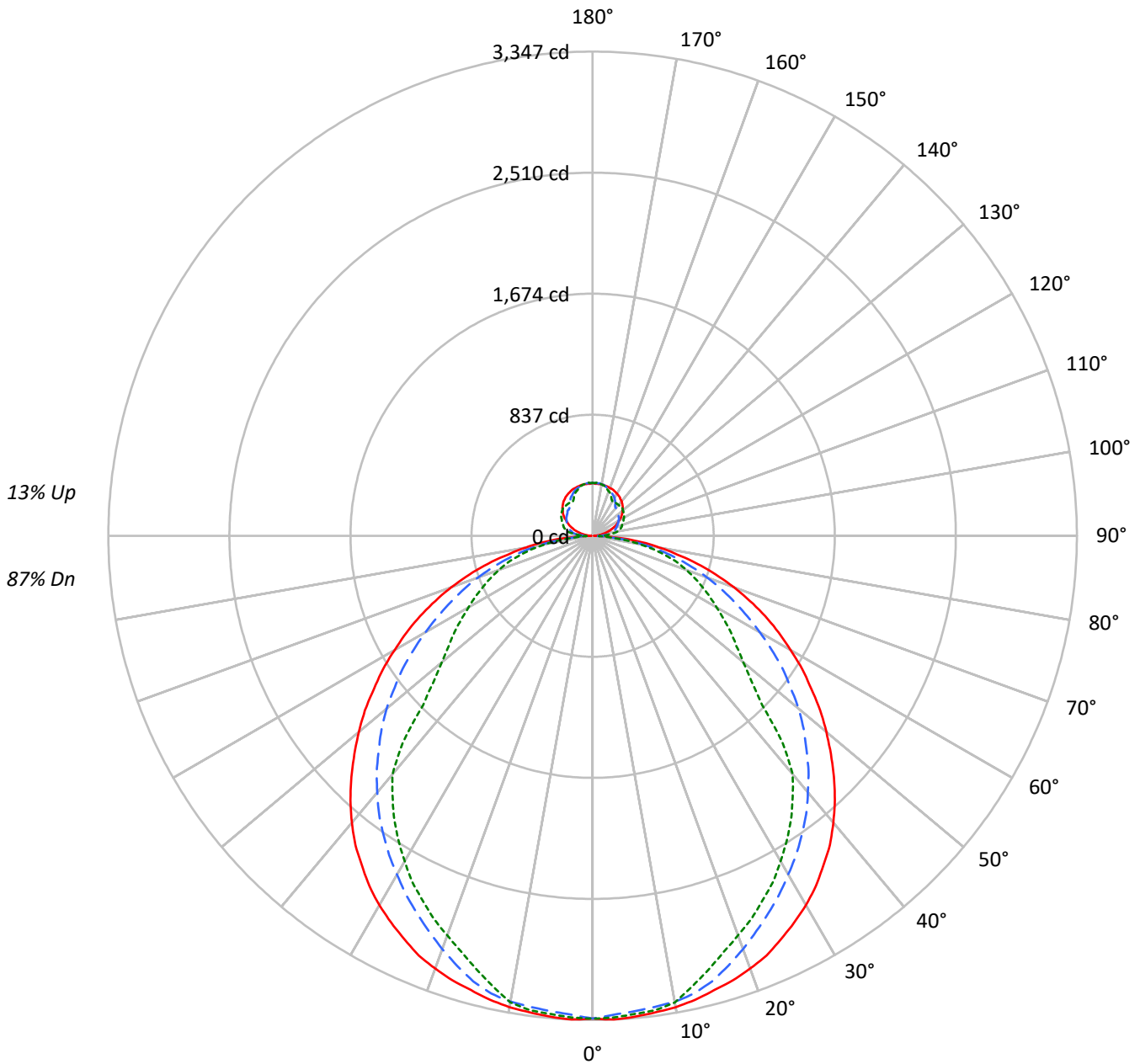
Lumens per Lamp: N/A
Luminaire Lumens: 10387.0 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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									
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°	8981	8981	8981
5°	9016	8912	8964
10°	9041	8936	8949
15°	9057	8883	8643
20°	9118	8705	8416
25°	9140	8541	8256
30°	9162	8401	8073
35°	9134	8282	7856
40°	9093	8131	7557
45°	8973	7950	6305
50°	8826	7780	5689
55°	8652	7525	5475
60°	8503	7185	5324
65°	8378	6880	5321
70°	8161	6612	5403
75°	7790	6291	5442
80°	7293	5656	5061
85°	6672	4005	3412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.0	3.0
10°-20°	898.3	8.6
20°-30°	1342.2	12.9
30°-40°	1602.2	15.4
40°-50°	1602.4	15.4
50°-60°	1386.8	13.4
60°-70°	1064.4	10.2
70°-80°	652.2	6.3
80°-90°	183.6	1.8
90°-100°	103.8	1.0
100°-110°	164.7	1.6
110°-120°	192.6	1.9
120°-130°	207.9	2.0
130°-140°	204.8	2.0
140°-150°	181.2	1.7
150°-160°	149.2	1.4
160°-170°	99.8	1.0
170°-180°	34.8	0.3
0°-30°	2556.5	24.6
0°-40°	4158.7	40.0
0°-60°	7147.9	68.8
0°-90°	9048.2	87.1
90°-120°	461.1	4.4
90°-150°	1055.1	10.2
90°-180°	1339.0	12.9
0°-180°	10387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3338	3338	3338	3338	3338	
5°	3338	3328	3299	3323	3318	318
15°	3251	3246	3189	3131	3102	920
25°	3078	3040	2877	2800	2780	1420
35°	2780	2708	2521	2430	2392	1741
45°	2358	2291	2089	1902	1657	1818
55°	1844	1801	1604	1282	1167	1653
65°	1316	1268	1080	869	836	1300
75°	749	711	605	523	523	790
85°	216	178	130	110	110	226
90°	10	34	53	67	72	15
95°	38	82	110	115	115	38
105°	110	115	163	192	202	116
115°	182	154	192	221	235	178
125°	245	197	221	254	264	218
135°	293	264	245	269	283	226
145°	327	312	274	269	278	204
155°	346	341	322	307	302	160
165°	355	360	351	351	351	101
175°	360	365	365	370	370	34
180°	365	365	365	365	365	



TEST NUMBER: P520659

CATALOG NUMBER: 8WSLA-125-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3337.6	3337.6	3337.6	3337.6	3337.6
2.5°	3347.2	3337.6	3313.6	3337.6	3332.8
5°	3337.6	3328.0	3299.2	3323.2	3318.4
7.5°	3323.2	3313.6	3284.8	3313.6	3308.8
10°	3308.8	3299.2	3270.4	3289.6	3275.2
12.5°	3284.8	3275.2	3241.5	3217.5	3188.7
15°	3251.1	3246.3	3188.7	3131.1	3102.3
17.5°	3222.3	3207.9	3116.7	3049.5	3015.8
20°	3183.9	3159.9	3039.8	2963.0	2939.0
22.5°	3140.7	3102.3	2958.2	2886.2	2867.0
25°	3078.3	3039.8	2876.6	2799.7	2780.5
27.5°	3015.8	2967.8	2794.9	2718.1	2698.9
30°	2948.6	2881.4	2703.7	2631.7	2598.0
32.5°	2871.8	2804.5	2617.2	2535.6	2497.2
35°	2780.5	2708.5	2521.2	2430.0	2391.5
37.5°	2694.1	2617.2	2425.2	2324.3	2271.5
40°	2588.4	2511.6	2314.7	2204.2	2151.4
42.5°	2478.0	2405.9	2209.1	2074.6	1944.9
45°	2357.9	2290.7	2089.0	1901.7	1656.8
47.5°	2233.1	2175.4	1978.5	1724.0	1488.7
50°	2108.2	2050.6	1858.5	1555.9	1359.0
52.5°	1983.3	1935.3	1724.0	1416.7	1253.4
55°	1844.1	1800.9	1604.0	1282.2	1167.0
57.5°	1719.2	1676.0	1464.7	1171.8	1075.7
60°	1580.0	1541.5	1335.0	1061.3	989.3
62.5°	1450.3	1407.1	1205.4	965.3	912.4
65°	1315.8	1267.8	1080.5	869.2	835.6
67.5°	1176.6	1128.5	960.5	782.8	763.6
70°	1037.3	998.9	840.4	696.3	686.7
72.5°	893.2	850.0	720.3	614.7	614.7
75°	749.2	710.7	605.1	523.4	523.4
77.5°	600.3	581.1	485.0	427.4	432.2
80°	470.6	446.6	365.0	326.6	326.6
82.5°	345.8	317.0	244.9	216.1	225.7
85°	216.1	177.7	129.7	110.5	110.5
87.5°	67.2	52.8	38.4	43.2	43.2
90°	9.6	33.6	52.8	67.2	72.0
92.5°	24.0	62.4	76.8	91.2	96.0
95°	38.4	81.6	110.5	115.3	115.3
97.5°	52.8	91.2	134.5	153.7	153.7
100°	72.0	96.0	144.1	172.9	177.7
102.5°	91.2	105.7	153.7	182.5	192.1
105°	110.5	115.3	163.3	192.1	201.7



TEST NUMBER: P520659

CATALOG NUMBER: 8WSLA-125-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.3	144.1	182.5	216.1	225.7
115°	182.5	153.7	192.1	220.9	235.3
117.5°	196.9	168.1	201.7	230.5	240.1
120°	211.3	177.7	206.5	240.1	249.7
122.5°	230.5	187.3	216.1	244.9	259.3
125°	244.9	196.9	220.9	254.5	264.1
127.5°	259.3	216.1	225.7	259.3	268.9
130°	268.9	235.3	230.5	264.1	273.7
132.5°	283.3	249.7	235.3	268.9	278.5
135°	292.9	264.1	244.9	268.9	283.3
137.5°	302.5	278.5	244.9	268.9	278.5
140°	312.1	292.9	249.7	268.9	278.5
142.5°	317.0	302.5	254.5	268.9	278.5
145°	326.6	312.1	273.7	268.9	278.5
147.5°	331.4	321.8	288.1	268.9	278.5
150°	336.2	331.4	302.5	273.7	273.7
152.5°	341.0	336.2	312.1	292.9	283.3
155°	345.8	341.0	321.8	307.3	302.5
157.5°	350.6	350.6	331.4	321.8	317.0
160°	350.6	355.4	341.0	331.4	326.6
162.5°	355.4	360.2	345.8	341.0	336.2
165°	355.4	360.2	350.6	350.6	350.6
167.5°	360.2	365.0	360.2	355.4	355.4
170°	360.2	365.0	360.2	360.2	360.2
172.5°	360.2	365.0	365.0	365.0	365.0
175°	360.2	365.0	365.0	369.8	369.8
177.5°	360.2	365.0	365.0	365.0	365.0
180°	365.0	365.0	365.0	365.0	365.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	129.7	124.9	168.1	201.7	211.3
110°	144.1	134.5	177.7	206.5	216.1



(END OF REPORT)