

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: P520658

Luminaire Tested: **8WSLA-125-L840-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: P520658
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-L840-UPL15-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

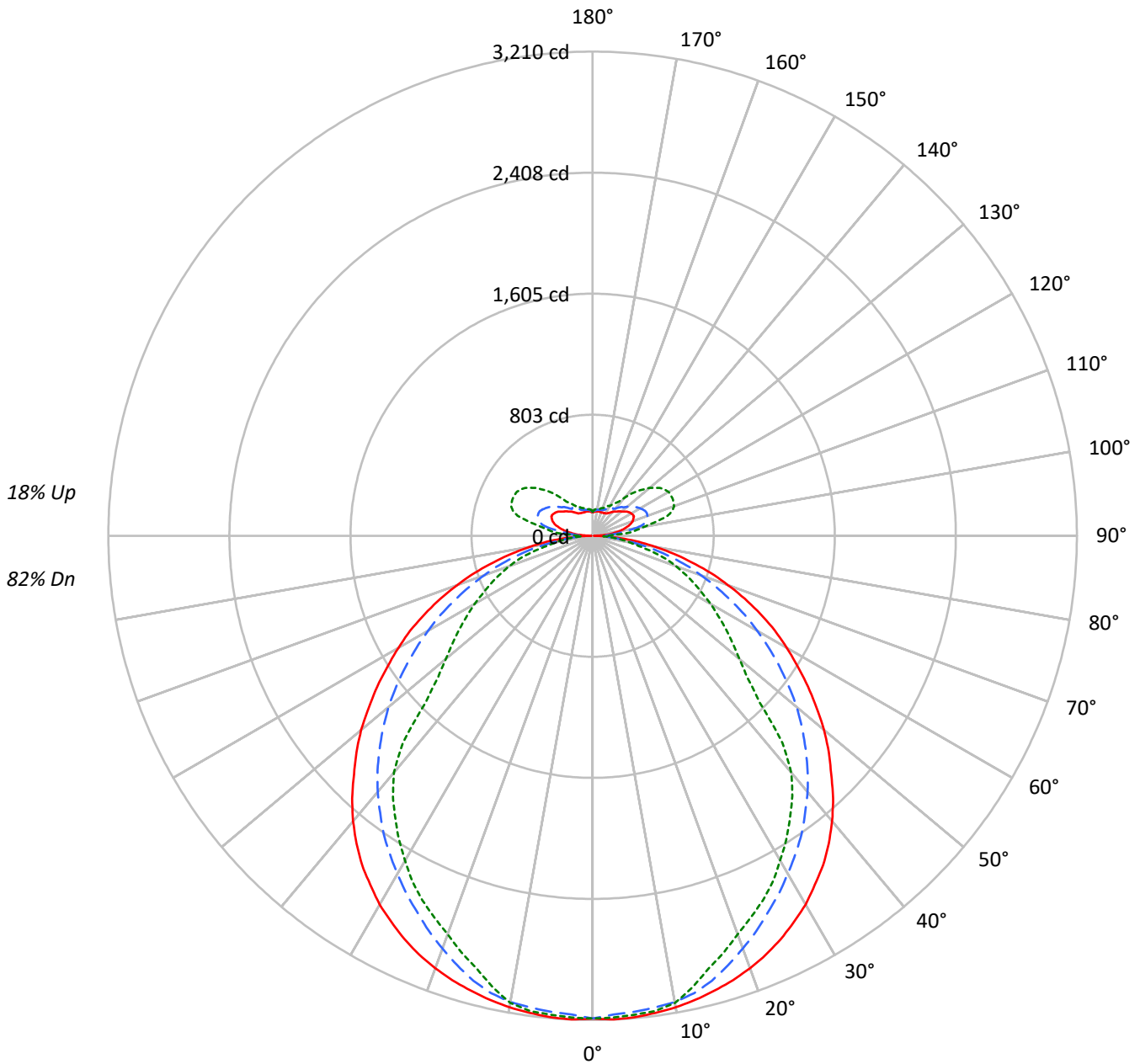
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10364.0 lumens
Efficiency: N/A
Efficacy: 132.5 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				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°	8611	8611	8611
5°	8653	8557	8609
10°	8673	8576	8593
15°	8698	8508	8273
20°	8737	8337	8049
25°	8760	8172	7921
30°	8774	8038	7725
35°	8753	7932	7495
40°	8676	7787	7194
45°	8510	7596	5966
50°	8383	7392	5313
55°	8177	7096	5055
60°	8000	6777	4856
65°	7812	6406	4712
70°	7508	6001	4622
75°	7087	5500	4251
80°	6488	4627	3772
85°	5811	4008	3807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.3	2.9
10°-20°	861.5	8.3
20°-30°	1285.8	12.4
30°-40°	1532.0	14.8
40°-50°	1523.8	14.7
50°-60°	1306.0	12.6
60°-70°	983.6	9.5
70°-80°	569.6	5.5
80°-90°	171.2	1.7
90°-100°	183.8	1.8
100°-110°	377.4	3.6
110°-120°	399.1	3.9
120°-130°	333.0	3.2
130°-140°	232.6	2.2
140°-150°	144.8	1.4
150°-160°	89.7	0.9
160°-170°	50.5	0.5
170°-180°	16.3	0.2
0°-30°	2450.6	23.6
0°-40°	3982.6	38.4
0°-60°	6812.4	65.7
0°-90°	8536.8	82.4
90°-120°	960.3	9.3
90°-150°	1670.6	16.1
90°-180°	1827.0	17.6
0°-180°	10364.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3200	3200	3200	3200	3200	
5°	3203	3194	3168	3190	3187	305
15°	3122	3119	3054	3002	2970	882
25°	2950	2908	2752	2684	2668	1360
35°	2665	2593	2415	2321	2282	1664
45°	2236	2181	1996	1798	1568	1729
55°	1743	1717	1512	1201	1078	1558
65°	1227	1198	1006	782	740	1213
75°	682	659	529	422	409	722
85°	188	166	130	123	123	201
90°	10	45	78	97	104	19
95°	104	140	159	234	253	99
105°	243	253	364	487	516	252
115°	302	256	386	532	584	294
125°	279	247	334	490	552	248
135°	227	247	269	364	419	177
145°	185	214	234	250	266	117
155°	169	178	192	208	211	78
165°	166	172	178	185	185	47
175°	162	166	169	172	175	15
180°	159	159	159	159	159	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3200.1	3200.1	3200.1	3200.1	3200.1
2.5°	3209.9	3203.4	3177.4	3203.4	3196.9
5°	3203.4	3193.6	3167.7	3190.4	3187.1
7.5°	3190.4	3183.9	3154.7	3180.6	3177.4
10°	3174.2	3164.4	3138.5	3157.9	3144.9
12.5°	3151.4	3144.9	3106.0	3089.8	3063.8
15°	3122.2	3119.0	3054.1	3002.1	2969.7
17.5°	3089.8	3076.8	2985.9	2924.2	2895.0
20°	3050.8	3031.3	2911.3	2839.9	2810.6
22.5°	3005.4	2976.2	2836.6	2768.5	2739.2
25°	2950.2	2908.0	2752.2	2684.1	2667.8
27.5°	2888.5	2839.9	2674.3	2606.2	2586.7
30°	2823.6	2762.0	2586.7	2521.8	2486.1
32.5°	2742.5	2684.1	2502.3	2427.7	2388.7
35°	2664.6	2593.2	2414.7	2320.6	2281.6
37.5°	2570.5	2499.1	2314.1	2220.0	2174.5
40°	2469.9	2398.5	2216.7	2106.4	2047.9
42.5°	2359.5	2294.6	2109.6	1976.5	1862.9
45°	2236.2	2181.0	1996.0	1798.0	1567.6
47.5°	2122.6	2070.7	1882.4	1626.0	1389.1
50°	2002.5	1953.8	1765.6	1463.7	1269.0
52.5°	1869.4	1833.7	1639.0	1324.2	1168.4
55°	1742.9	1716.9	1512.4	1200.9	1077.5
57.5°	1609.8	1583.8	1385.9	1084.0	986.6
60°	1486.5	1460.5	1259.3	980.2	902.3
62.5°	1363.1	1327.4	1135.9	879.5	814.6
65°	1226.8	1197.6	1006.1	782.2	740.0
67.5°	1090.5	1064.5	886.0	691.3	662.1
70°	954.2	931.5	762.7	603.7	587.4
72.5°	821.1	791.9	652.4	516.0	509.6
75°	681.6	658.8	529.0	421.9	408.9
77.5°	548.5	529.0	415.4	321.3	311.6
80°	418.7	399.2	298.6	233.7	243.4
82.5°	308.3	282.4	201.2	181.8	191.5
85°	188.2	165.5	129.8	123.3	123.3
87.5°	64.9	61.7	58.4	68.2	71.4
90°	9.7	45.4	77.9	97.4	103.9
92.5°	55.2	81.1	107.1	126.6	133.1
95°	103.9	139.6	159.0	233.7	253.2
97.5°	142.8	185.0	207.7	275.9	295.3
100°	181.8	220.7	292.1	327.8	350.5
102.5°	214.2	243.4	344.0	415.4	428.4
105°	243.4	253.2	363.5	486.8	516.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	292.1	259.6	389.5	529.0	581.0
115°	301.8	256.4	386.2	532.3	584.2
117.5°	301.8	256.4	376.5	532.3	584.2
120°	295.3	259.6	363.5	525.8	581.0
122.5°	288.9	253.2	350.5	512.8	568.0
125°	279.1	246.7	334.3	490.1	551.7
127.5°	262.9	253.2	318.1	460.9	522.5
130°	249.9	256.4	298.6	431.7	493.3
132.5°	240.2	249.9	279.1	399.2	454.4
135°	227.2	246.7	269.4	363.5	418.7
137.5°	217.5	236.9	253.2	331.0	376.5
140°	207.7	230.4	236.9	288.9	327.8
142.5°	194.7	220.7	223.9	269.4	285.6
145°	185.0	214.2	233.7	249.9	266.1
147.5°	175.3	201.2	227.2	230.4	246.7
150°	172.0	188.2	217.5	220.7	227.2
152.5°	168.8	181.8	201.2	220.7	223.9
155°	168.8	178.5	191.5	207.7	211.0
157.5°	165.5	178.5	185.0	198.0	201.2
160°	165.5	175.3	181.8	191.5	194.7
162.5°	165.5	175.3	178.5	188.2	191.5
165°	165.5	172.0	178.5	185.0	185.0
167.5°	165.5	172.0	175.3	181.8	181.8
170°	165.5	168.8	175.3	178.5	178.5
172.5°	162.3	168.8	172.0	178.5	178.5
175°	162.3	165.5	168.8	172.0	175.3
177.5°	155.8	165.5	168.8	172.0	168.8
180°	159.0	159.0	159.0	159.0	159.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	266.1	256.4	376.5	512.8	555.0
110°	282.4	259.6	386.2	522.5	574.5



(END OF REPORT)