

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: P520680

Luminaire Tested: **8WSLA-150-L835-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: P520680
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-150-L835-UPL8-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

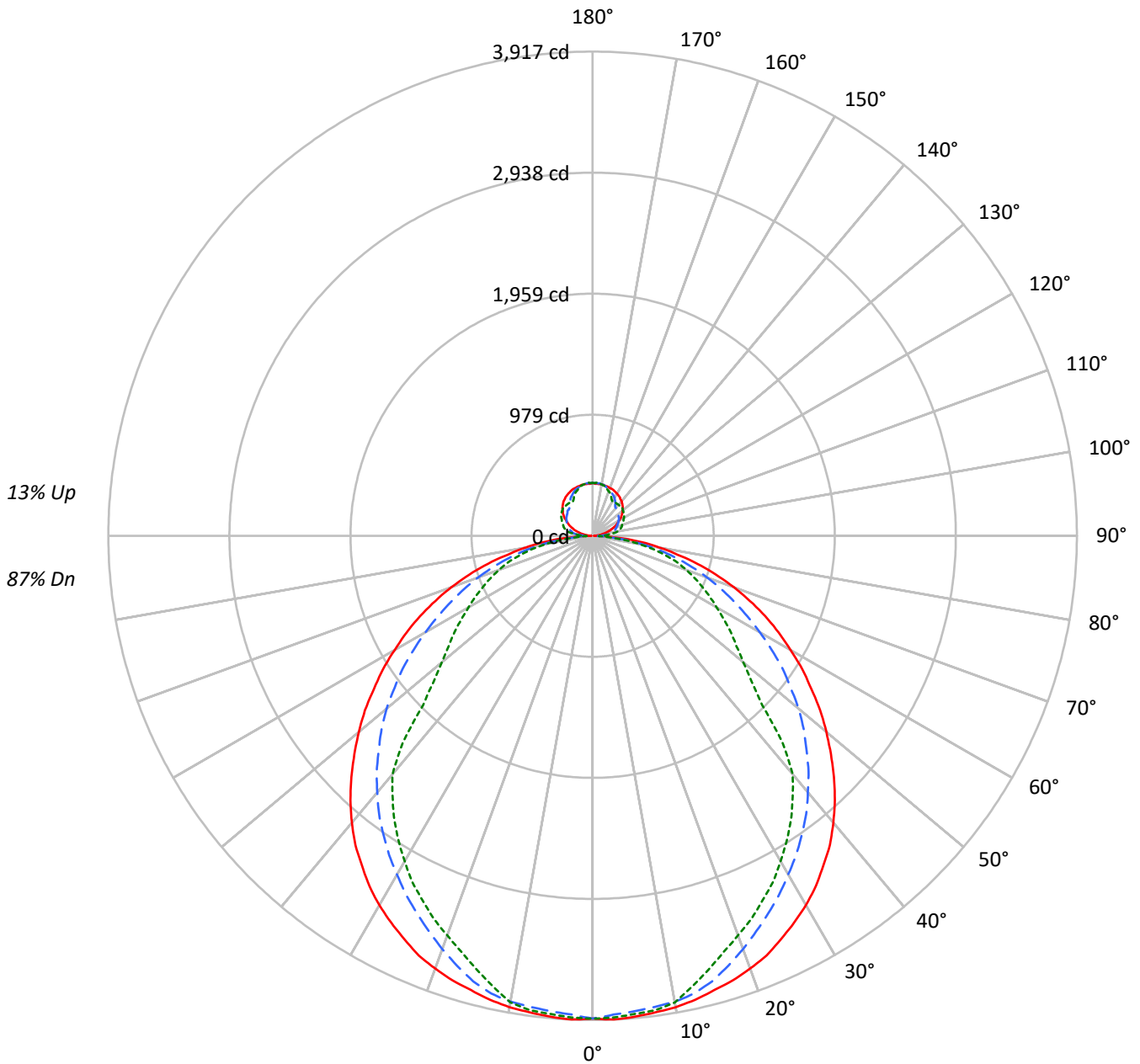
Lumens per Lamp: N/A
Luminaire Lumens: 12155.9 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 93.6
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87				87
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73				73
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61				61
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51				51
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44				44
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38				38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33				33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30				30
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26				26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24				24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10511	10511	10511
5°	10551	10430	10490
10°	10581	10458	10473
15°	10600	10396	10115
20°	10671	10188	9850
25°	10696	9996	9662
30°	10723	9832	9448
35°	10690	9693	9194
40°	10641	9516	8845
45°	10502	9304	7379
50°	10329	9105	6659
55°	10125	8807	6407
60°	9951	8409	6231
65°	9805	8052	6227
70°	9552	7738	6323
75°	9115	7362	6369
80°	8536	6619	5923
85°	7808	4684	3992



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.8	3.0
10°-20°	1051.3	8.6
20°-30°	1570.8	12.9
30°-40°	1875.1	15.4
40°-50°	1875.3	15.4
50°-60°	1623.0	13.4
60°-70°	1245.7	10.2
70°-80°	763.3	6.3
80°-90°	214.9	1.8
90°-100°	121.4	1.0
100°-110°	192.8	1.6
110°-120°	225.4	1.9
120°-130°	243.3	2.0
130°-140°	239.7	2.0
140°-150°	212.1	1.7
150°-160°	174.6	1.4
160°-170°	116.8	1.0
170°-180°	40.7	0.3
0°-30°	2991.9	24.6
0°-40°	4867.0	40.0
0°-60°	8365.3	68.8
0°-90°	10589.2	87.1
90°-120°	539.6	4.4
90°-150°	1234.7	10.2
90°-180°	1567.0	12.9
0°-180°	12155.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3906	3906	3906	3906	3906	
5°	3906	3895	3861	3889	3884	372
15°	3805	3799	3732	3664	3631	1076
25°	3602	3558	3366	3277	3254	1662
35°	3254	3170	2951	2844	2799	2038
45°	2760	2681	2445	2226	1939	2128
55°	2158	2108	1877	1501	1366	1935
65°	1540	1484	1264	1017	978	1521
75°	877	832	708	613	613	925
85°	253	208	152	129	129	264
90°	11	39	62	79	84	18
95°	45	96	129	135	135	44
105°	129	135	191	225	236	136
115°	214	180	225	258	275	209
125°	287	230	258	298	309	255
135°	343	309	287	315	332	264
145°	382	365	320	315	326	238
155°	405	399	377	360	354	187
165°	416	422	410	410	410	118
175°	422	427	427	433	433	40
180°	427	427	427	427	427	



TEST NUMBER: P520680

CATALOG NUMBER: 8WSLA-150-L835-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3906.0	3906.0	3906.0	3906.0	3906.0
2.5°	3917.2	3906.0	3877.9	3906.0	3900.4
5°	3906.0	3894.8	3861.0	3889.1	3883.5
7.5°	3889.1	3877.9	3844.2	3877.9	3872.3
10°	3872.3	3861.0	3827.3	3849.8	3832.9
12.5°	3844.2	3832.9	3793.6	3765.5	3731.8
15°	3804.8	3799.2	3731.8	3664.3	3630.6
17.5°	3771.1	3754.3	3647.5	3568.8	3529.5
20°	3726.2	3698.1	3557.6	3467.6	3439.5
22.5°	3675.6	3630.6	3462.0	3377.7	3355.2
25°	3602.5	3557.6	3366.5	3276.6	3254.1
27.5°	3529.5	3473.3	3270.9	3181.0	3158.5
30°	3450.8	3372.1	3164.1	3079.8	3040.5
32.5°	3360.9	3282.2	3063.0	2967.4	2922.5
35°	3254.1	3169.8	2950.6	2843.8	2798.8
37.5°	3152.9	3063.0	2838.2	2720.2	2658.3
40°	3029.3	2939.3	2708.9	2579.7	2517.8
42.5°	2900.0	2815.7	2585.3	2427.9	2276.2
45°	2759.5	2680.8	2444.8	2225.6	1939.0
47.5°	2613.4	2545.9	2315.5	2017.6	1742.2
50°	2467.2	2399.8	2175.0	1820.9	1590.5
52.5°	2321.1	2264.9	2017.6	1657.9	1466.9
55°	2158.1	2107.6	1877.1	1500.6	1365.7
57.5°	2012.0	1961.4	1714.1	1371.3	1258.9
60°	1849.0	1804.1	1562.4	1242.1	1157.8
62.5°	1697.3	1646.7	1410.7	1129.7	1067.8
65°	1539.9	1483.7	1264.5	1017.2	977.9
67.5°	1376.9	1320.7	1124.0	916.1	893.6
70°	1214.0	1169.0	983.5	814.9	803.7
72.5°	1045.3	994.8	843.0	719.4	719.4
75°	876.7	831.8	708.1	612.6	612.6
77.5°	702.5	680.0	567.6	500.2	505.8
80°	550.8	522.7	427.1	382.2	382.2
82.5°	404.7	370.9	286.6	252.9	264.1
85°	252.9	207.9	151.7	129.3	129.3
87.5°	78.7	61.8	45.0	50.6	50.6
90°	11.2	39.3	61.8	78.7	84.3
92.5°	28.1	73.1	89.9	106.8	112.4
95°	45.0	95.5	129.3	134.9	134.9
97.5°	61.8	106.8	157.4	179.8	179.8
100°	84.3	112.4	168.6	202.3	207.9
102.5°	106.8	123.6	179.8	213.6	224.8
105°	129.3	134.9	191.1	224.8	236.0



TEST NUMBER: P520680

CATALOG NUMBER: 8WSLA-150-L835-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	191.1	168.6	213.6	252.9	264.1
115°	213.6	179.8	224.8	258.5	275.4
117.5°	230.4	196.7	236.0	269.8	281.0
120°	247.3	207.9	241.7	281.0	292.2
122.5°	269.8	219.2	252.9	286.6	303.5
125°	286.6	230.4	258.5	297.9	309.1
127.5°	303.5	252.9	264.1	303.5	314.7
130°	314.7	275.4	269.8	309.1	320.3
132.5°	331.6	292.2	275.4	314.7	326.0
135°	342.8	309.1	286.6	314.7	331.6
137.5°	354.1	326.0	286.6	314.7	326.0
140°	365.3	342.8	292.2	314.7	326.0
142.5°	370.9	354.1	297.9	314.7	326.0
145°	382.2	365.3	320.3	314.7	326.0
147.5°	387.8	376.6	337.2	314.7	326.0
150°	393.4	387.8	354.1	320.3	320.3
152.5°	399.0	393.4	365.3	342.8	331.6
155°	404.7	399.0	376.6	359.7	354.1
157.5°	410.3	410.3	387.8	376.6	370.9
160°	410.3	415.9	399.0	387.8	382.2
162.5°	415.9	421.5	404.7	399.0	393.4
165°	415.9	421.5	410.3	410.3	410.3
167.5°	421.5	427.1	421.5	415.9	415.9
170°	421.5	427.1	421.5	421.5	421.5
172.5°	421.5	427.1	427.1	427.1	427.1
175°	421.5	427.1	427.1	432.8	432.8
177.5°	421.5	427.1	427.1	427.1	427.1
180°	427.1	427.1	427.1	427.1	427.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	151.7	146.1	196.7	236.0	247.3
110°	168.6	157.4	207.9	241.7	252.9



(END OF REPORT)