

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: P520677

Luminaire Tested: **8WSLA-150-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: P520677
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-L830-UPL8-UNV-U
Description: 8 FOOT, 3000 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

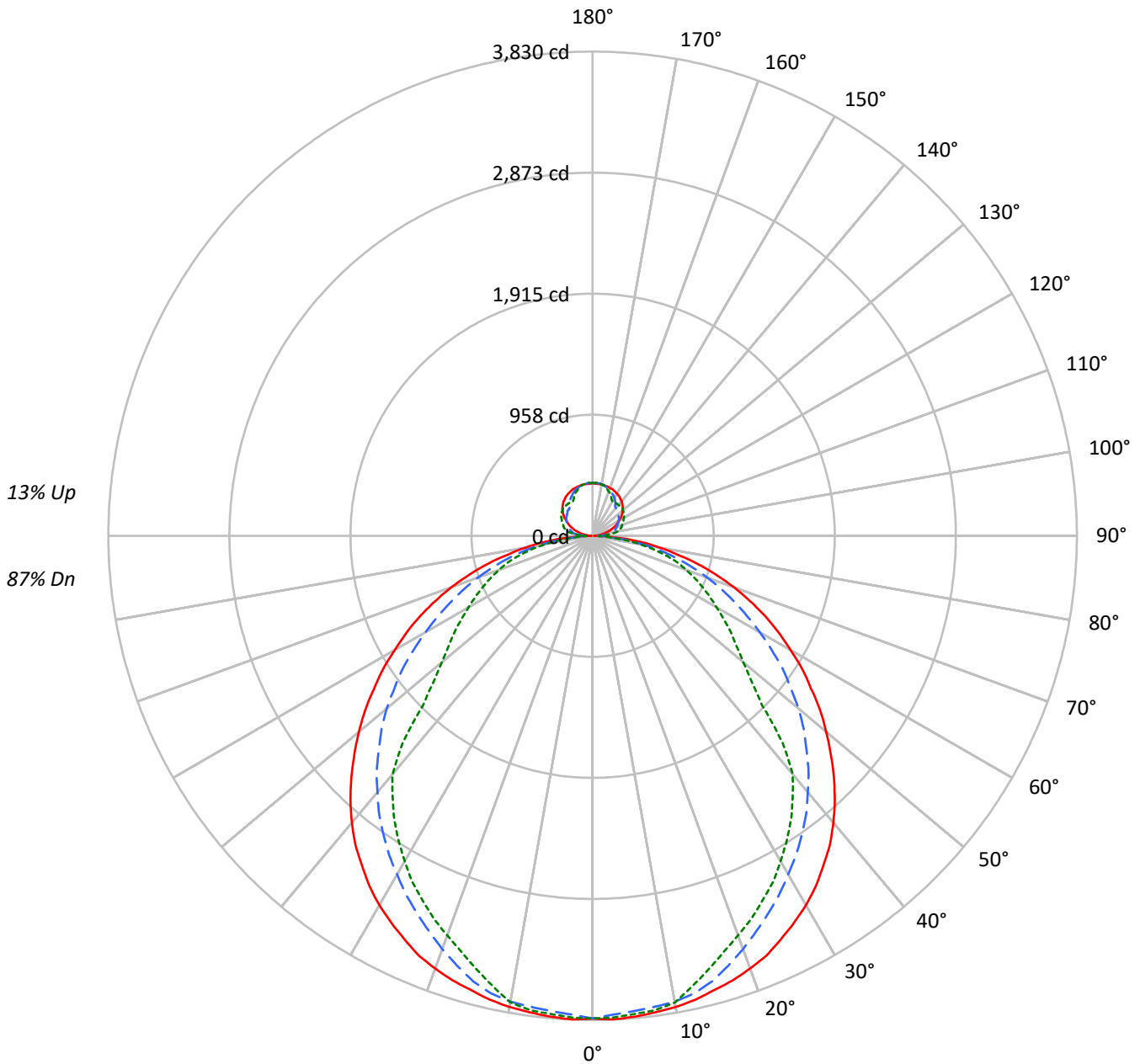
Lumens per Lamp: N/A
Luminaire Lumens: 11884.0 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 93.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	10276	10276	10276
5°	10315	10196	10256
10°	10344	10224	10239
15°	10363	10164	9888
20°	10432	9960	9629
25°	10457	9772	9446
30°	10483	9612	9236
35°	10451	9476	8989
40°	10403	9303	8647
45°	10267	9096	8214
50°	10098	8902	7809
55°	9899	8610	7424
60°	9729	8220	7091
65°	9586	7871	6807
70°	9338	7565	6582
75°	8911	7198	6227
80°	8345	6471	5790
85°	7632	4579	3903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.5	3.0
10°-20°	1027.8	8.6
20°-30°	1535.7	12.9
30°-40°	1833.2	15.4
40°-50°	1833.3	15.4
50°-60°	1586.6	13.4
60°-70°	1217.8	10.2
70°-80°	746.2	6.3
80°-90°	210.1	1.8
90°-100°	118.7	1.0
100°-110°	188.5	1.6
110°-120°	220.3	1.9
120°-130°	237.9	2.0
130°-140°	234.4	2.0
140°-150°	207.4	1.7
150°-160°	170.6	1.4
160°-170°	114.2	1.0
170°-180°	39.8	0.3
0°-30°	2924.9	24.6
0°-40°	4758.1	40.0
0°-60°	8178.1	68.8
0°-90°	10352.2	87.1
90°-120°	527.5	4.4
90°-150°	1207.1	10.2
90°-180°	1532.0	12.9
0°-180°	11884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3819	3819	3819	3819	3819	
5°	3819	3808	3775	3802	3797	363
15°	3720	3714	3648	3582	3549	1052
25°	3522	3478	3291	3203	3181	1625
35°	3181	3099	2885	2780	2736	1992
45°	2698	2621	2390	2176	1896	2080
55°	2110	2060	1835	1467	1335	1891
65°	1506	1450	1236	994	956	1487
75°	857	813	692	599	599	904
85°	247	203	148	126	126	258
90°	11	38	60	77	82	17
95°	44	93	126	132	132	43
105°	126	132	187	220	231	133
115°	209	176	220	253	269	204
125°	280	225	253	291	302	250
135°	335	302	280	308	324	259
145°	374	357	313	308	319	233
155°	396	390	368	352	346	183
165°	407	412	401	401	401	115
175°	412	418	418	423	423	39
180°	418	418	418	418	418	



TEST NUMBER: P520677

CATALOG NUMBER: 8WSLA-150-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3818.6	3818.6	3818.6	3818.6	3818.6
2.5°	3829.6	3818.6	3791.1	3818.6	3813.1
5°	3818.6	3807.6	3774.7	3802.1	3796.6
7.5°	3802.1	3791.1	3758.2	3791.1	3785.6
10°	3785.6	3774.7	3741.7	3763.7	3747.2
12.5°	3758.2	3747.2	3708.7	3681.2	3648.3
15°	3719.7	3714.2	3648.3	3582.3	3549.4
17.5°	3686.7	3670.3	3565.9	3488.9	3450.5
20°	3642.8	3615.3	3478.0	3390.0	3362.6
22.5°	3593.3	3549.4	3384.6	3302.1	3280.2
25°	3521.9	3478.0	3291.1	3203.2	3181.3
27.5°	3450.5	3395.5	3197.7	3109.8	3087.9
30°	3373.6	3296.6	3093.3	3010.9	2972.5
32.5°	3285.7	3208.7	2994.4	2901.0	2857.1
35°	3181.3	3098.8	2884.6	2780.2	2736.2
37.5°	3082.4	2994.4	2774.7	2659.3	2598.9
40°	2961.5	2873.6	2648.3	2521.9	2461.5
42.5°	2835.1	2752.7	2527.4	2373.6	2225.2
45°	2697.8	2620.8	2390.1	2175.8	1895.6
47.5°	2554.9	2489.0	2263.7	1972.5	1703.3
50°	2412.0	2346.1	2126.3	1780.2	1554.9
52.5°	2269.2	2214.2	1972.5	1620.8	1434.0
55°	2109.9	2060.4	1835.1	1467.0	1335.1
57.5°	1967.0	1917.5	1675.8	1340.6	1230.7
60°	1807.7	1763.7	1527.4	1214.3	1131.8
62.5°	1659.3	1609.9	1379.1	1104.4	1043.9
65°	1505.5	1450.5	1236.2	994.5	956.0
67.5°	1346.1	1291.2	1098.9	895.6	873.6
70°	1186.8	1142.8	961.5	796.7	785.7
72.5°	1022.0	972.5	824.2	703.3	703.3
75°	857.1	813.2	692.3	598.9	598.9
77.5°	686.8	664.8	554.9	489.0	494.5
80°	538.5	511.0	417.6	373.6	373.6
82.5°	395.6	362.6	280.2	247.2	258.2
85°	247.2	203.3	148.3	126.4	126.4
87.5°	76.9	60.4	44.0	49.4	49.4
90°	11.0	38.5	60.4	76.9	82.4
92.5°	27.5	71.4	87.9	104.4	109.9
95°	44.0	93.4	126.4	131.9	131.9
97.5°	60.4	104.4	153.8	175.8	175.8
100°	82.4	109.9	164.8	197.8	203.3
102.5°	104.4	120.9	175.8	208.8	219.8
105°	126.4	131.9	186.8	219.8	230.8



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CATALOG NUMBER: 8WSLA-150-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	186.8	164.8	208.8	247.2	258.2
115°	208.8	175.8	219.8	252.7	269.2
117.5°	225.3	192.3	230.8	263.7	274.7
120°	241.8	203.3	236.3	274.7	285.7
122.5°	263.7	214.3	247.2	280.2	296.7
125°	280.2	225.3	252.7	291.2	302.2
127.5°	296.7	247.2	258.2	296.7	307.7
130°	307.7	269.2	263.7	302.2	313.2
132.5°	324.2	285.7	269.2	307.7	318.7
135°	335.2	302.2	280.2	307.7	324.2
137.5°	346.1	318.7	280.2	307.7	318.7
140°	357.1	335.2	285.7	307.7	318.7
142.5°	362.6	346.1	291.2	307.7	318.7
145°	373.6	357.1	313.2	307.7	318.7
147.5°	379.1	368.1	329.7	307.7	318.7
150°	384.6	379.1	346.1	313.2	313.2
152.5°	390.1	384.6	357.1	335.2	324.2
155°	395.6	390.1	368.1	351.6	346.1
157.5°	401.1	401.1	379.1	368.1	362.6
160°	401.1	406.6	390.1	379.1	373.6
162.5°	406.6	412.1	395.6	390.1	384.6
165°	406.6	412.1	401.1	401.1	401.1
167.5°	412.1	417.6	412.1	406.6	406.6
170°	412.1	417.6	412.1	412.1	412.1
172.5°	412.1	417.6	417.6	417.6	417.6
175°	412.1	417.6	417.6	423.1	423.1
177.5°	412.1	417.6	417.6	417.6	417.6
180°	417.6	417.6	417.6	417.6	417.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	148.3	142.9	192.3	230.8	241.8
110°	164.8	153.8	203.3	236.3	247.2



(END OF REPORT)