

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: P520691

Luminaire Tested: **8WSLA-150-L935-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: P520691
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-150-L935-UPL15-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

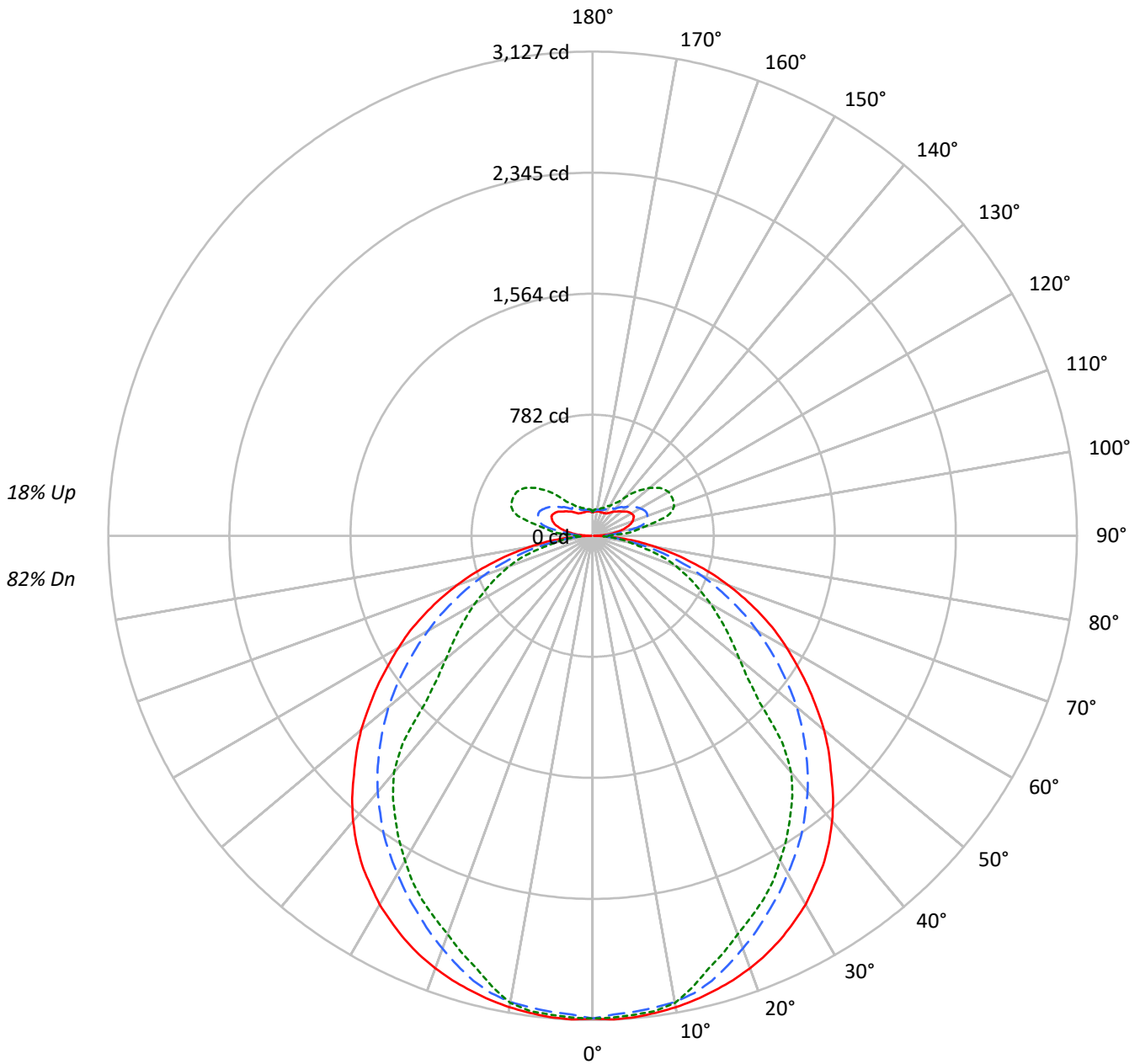
Lumens per Lamp: N/A
Luminaire Lumens: 10095.9 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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									
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	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°	8389	8389	8389
5°	8429	8335	8387
10°	8449	8354	8371
15°	8473	8288	8059
20°	8511	8121	7841
25°	8533	7961	7717
30°	8547	7830	7525
35°	8527	7727	7301
40°	8452	7586	7008
45°	8290	7400	5812
50°	8166	7200	5175
55°	7965	6912	4925
60°	7793	6602	4730
65°	7610	6241	4590
70°	7313	5846	4503
75°	6903	5358	4142
80°	6320	4508	3674
85°	5663	3906	3708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.5	2.9
10°-20°	839.3	8.3
20°-30°	1252.5	12.4
30°-40°	1492.4	14.8
40°-50°	1484.4	14.7
50°-60°	1272.2	12.6
60°-70°	958.1	9.5
70°-80°	554.9	5.5
80°-90°	166.8	1.7
90°-100°	179.0	1.8
100°-110°	367.7	3.6
110°-120°	388.8	3.9
120°-130°	324.3	3.2
130°-140°	226.6	2.2
140°-150°	141.0	1.4
150°-160°	87.4	0.9
160°-170°	49.2	0.5
170°-180°	15.9	0.2
0°-30°	2387.2	23.6
0°-40°	3879.6	38.4
0°-60°	6636.2	65.7
0°-90°	8316.1	82.4
90°-120°	935.5	9.3
90°-150°	1627.4	16.1
90°-180°	1780.0	17.6
0°-180°	10095.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3117	3117	3117	3117	3117	
5°	3120	3111	3086	3108	3105	297
15°	3042	3038	2975	2924	2893	860
25°	2874	2833	2681	2615	2599	1325
35°	2596	2526	2352	2261	2223	1621
45°	2178	2125	1944	1752	1527	1684
55°	1698	1672	1473	1170	1050	1518
65°	1195	1167	980	762	721	1181
75°	664	642	515	411	398	703
85°	183	161	126	120	120	196
90°	10	44	76	95	101	19
95°	101	136	155	228	247	97
105°	237	247	354	474	503	246
115°	294	250	376	518	569	286
125°	272	240	326	477	538	242
135°	221	240	262	354	408	173
145°	180	209	228	243	259	114
155°	164	174	186	202	206	76
165°	161	168	174	180	180	46
175°	158	161	164	168	171	15
180°	155	155	155	155	155	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3117.4	3117.4	3117.4	3117.4	3117.4
2.5°	3126.8	3120.5	3095.2	3120.5	3114.2
5°	3120.5	3111.0	3085.7	3107.9	3104.7
7.5°	3107.9	3101.6	3073.1	3098.4	3095.2
10°	3092.1	3082.6	3057.3	3076.3	3063.6
12.5°	3069.9	3063.6	3025.7	3009.9	2984.6
15°	3041.5	3038.3	2975.1	2924.5	2892.9
17.5°	3009.9	2997.2	2908.7	2848.6	2820.2
20°	2971.9	2953.0	2836.0	2766.4	2738.0
22.5°	2927.7	2899.2	2763.3	2696.9	2668.4
25°	2873.9	2832.8	2681.1	2614.7	2598.9
27.5°	2813.8	2766.4	2605.2	2538.8	2519.8
30°	2750.6	2690.5	2519.8	2456.6	2421.8
32.5°	2671.6	2614.7	2437.6	2364.9	2327.0
35°	2595.7	2526.1	2352.3	2260.6	2222.6
37.5°	2504.0	2434.5	2254.2	2162.6	2118.3
40°	2406.0	2336.4	2159.4	2051.9	1995.0
42.5°	2298.5	2235.3	2055.1	1925.4	1814.8
45°	2178.4	2124.6	1944.4	1751.5	1527.1
47.5°	2067.7	2017.1	1833.7	1584.0	1353.2
50°	1950.7	1903.3	1719.9	1425.9	1236.2
52.5°	1821.1	1786.3	1596.6	1289.9	1138.2
55°	1697.8	1672.5	1473.3	1169.8	1049.7
57.5°	1568.2	1542.9	1350.0	1056.0	961.1
60°	1448.0	1422.7	1226.7	954.8	878.9
62.5°	1327.9	1293.1	1106.6	856.8	793.6
65°	1195.1	1166.6	980.1	762.0	720.9
67.5°	1062.3	1037.0	863.1	673.4	645.0
70°	929.5	907.4	743.0	588.1	572.3
72.5°	799.9	771.4	635.5	502.7	496.4
75°	663.9	641.8	515.3	411.0	398.4
77.5°	534.3	515.3	404.7	313.0	303.5
80°	407.8	388.9	290.9	227.6	237.1
82.5°	300.4	275.1	196.0	177.1	186.5
85°	183.4	161.2	126.5	120.1	120.1
87.5°	63.2	60.1	56.9	66.4	69.6
90°	9.5	44.3	75.9	94.8	101.2
92.5°	53.7	79.0	104.3	123.3	129.6
95°	101.2	135.9	154.9	227.6	246.6
97.5°	139.1	180.2	202.3	268.7	287.7
100°	177.1	215.0	284.5	319.3	341.5
102.5°	208.7	237.1	335.1	404.7	417.3
105°	237.1	246.6	354.1	474.2	502.7



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CATALOG NUMBER: 8WSLA-150-L935-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.5	252.9	379.4	515.3	565.9
115°	294.0	249.8	376.2	518.5	569.1
117.5°	294.0	249.8	366.7	518.5	569.1
120°	287.7	252.9	354.1	512.2	565.9
122.5°	281.4	246.6	341.5	499.5	553.3
125°	271.9	240.3	325.6	477.4	537.5
127.5°	256.1	246.6	309.8	449.0	509.0
130°	243.4	249.8	290.9	420.5	480.6
132.5°	234.0	243.4	271.9	388.9	442.6
135°	221.3	240.3	262.4	354.1	407.8
137.5°	211.8	230.8	246.6	322.5	366.7
140°	202.3	224.5	230.8	281.4	319.3
142.5°	189.7	215.0	218.2	262.4	278.2
145°	180.2	208.7	227.6	243.4	259.3
147.5°	170.7	196.0	221.3	224.5	240.3
150°	167.6	183.4	211.8	215.0	221.3
152.5°	164.4	177.1	196.0	215.0	218.2
155°	164.4	173.9	186.5	202.3	205.5
157.5°	161.2	173.9	180.2	192.9	196.0
160°	161.2	170.7	177.1	186.5	189.7
162.5°	161.2	170.7	173.9	183.4	186.5
165°	161.2	167.6	173.9	180.2	180.2
167.5°	161.2	167.6	170.7	177.1	177.1
170°	161.2	164.4	170.7	173.9	173.9
172.5°	158.1	164.4	167.6	173.9	173.9
175°	158.1	161.2	164.4	167.6	170.7
177.5°	151.8	161.2	164.4	167.6	164.4
180°	154.9	154.9	154.9	154.9	154.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	259.3	249.8	366.7	499.5	540.6
110°	275.1	252.9	376.2	509.0	559.6



(END OF REPORT)