

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: P520690

Luminaire Tested: **8WSLA-150-L935-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: P520690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 8WSLA-150-L935-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

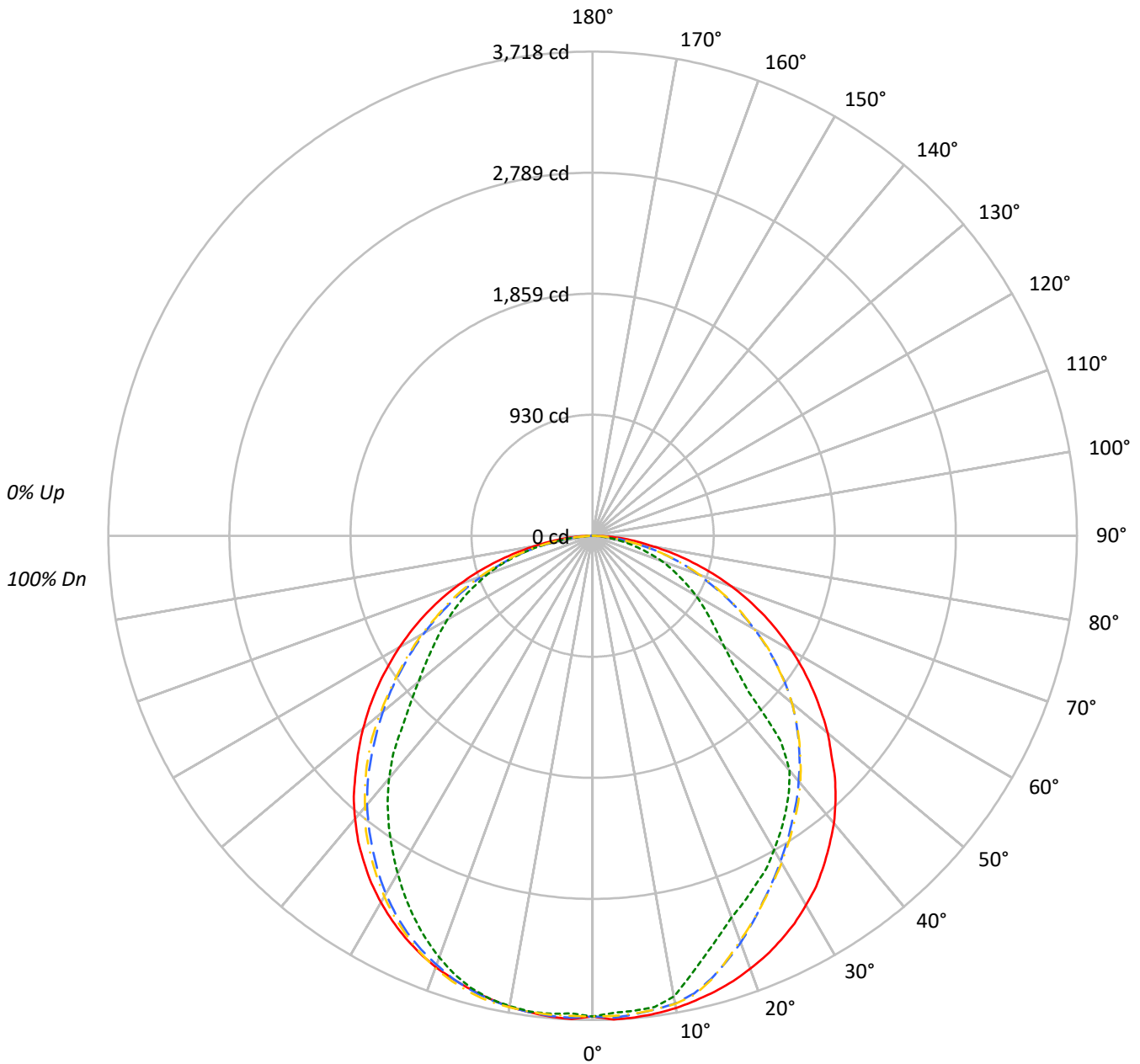
Lumens per Lamp: N/A
Luminaire Lumens: 9901.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70																			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60																			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9932	9932	9932	9932
5°	10028	9890	10012	9954
10°	10063	9815	10036	10020
15°	10094	9295	10050	10017
20°	10133	8930	10093	9866
25°	10165	8783	10112	9618
30°	10176	8657	10102	9303
35°	10160	8488	10056	8957
40°	10127	8263	9967	8541
45°	10014	6420	9788	7837
50°	9864	5496	9624	7311
55°	9689	5146	9438	7032
60°	9506	4913	9218	6916
65°	9279	4652	8964	6833
70°	8911	4424	8537	6730
75°	8296	3891	7905	6403
80°	7364	3253	6904	5432
85°	6969	2322	6113	3118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.7	3.5
10°-20°	1000.2	10.1
20°-30°	1494.6	15.1
30°-40°	1779.1	18.0
40°-50°	1778.3	18.0
50°-60°	1530.2	15.5
60°-70°	1151.7	11.6
70°-80°	656.3	6.6
80°-90°	159.7	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2845.5	28.7
0°-40°	4624.6	46.7
0°-60°	7933.2	80.1
0°-90°	9901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9901.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3691	3691	3691	3691	3691	
5°	3712	3661	3707	3685	3712	353
15°	3623	3336	3608	3596	3623	1024
25°	3424	2958	3406	3239	3424	1579
35°	3093	2584	3061	2726	3093	1935
45°	2632	1687	2572	2059	2632	2027
55°	2065	1097	2012	1499	2065	1846
65°	1457	731	1408	1073	1457	1439
75°	798	374	760	616	798	845
85°	226	75	198	101	226	246
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3690.8	3690.8	3690.8	3690.8	3690.8	3690.8	3690.8	3690.8	3690.8	3690.8	3690.8
2.5°	3718.5	3684.8	3704.6	3698.7	3667.0	3678.9	3690.8	3678.9	3714.5	3682.8	3704.6
5°	3712.5	3676.9	3688.8	3676.9	3661.1	3665.0	3682.8	3671.0	3706.6	3672.9	3700.7
7.5°	3700.7	3657.1	3669.0	3663.0	3649.2	3651.2	3669.0	3659.1	3690.8	3659.1	3690.8
10°	3682.8	3637.3	3647.2	3621.5	3591.8	3613.5	3649.2	3639.3	3672.9	3637.3	3672.9
12.5°	3655.1	3609.6	3599.7	3514.5	3461.1	3502.7	3611.6	3611.6	3643.2	3609.6	3647.2
15°	3623.4	3573.9	3520.5	3391.8	3336.3	3377.9	3528.4	3579.9	3607.6	3573.9	3611.6
17.5°	3585.8	3528.4	3425.4	3275.0	3223.5	3265.1	3419.5	3532.4	3568.0	3532.4	3566.0
20°	3538.3	3471.0	3324.5	3152.2	3118.5	3156.2	3310.6	3474.9	3524.4	3480.9	3504.6
22.5°	3486.8	3405.6	3211.6	3057.2	3041.3	3065.1	3205.7	3403.7	3469.0	3423.5	3439.3
25°	3423.5	3328.4	3098.7	2970.0	2958.2	2972.0	3102.7	3320.5	3405.6	3358.1	3364.1
27.5°	3356.1	3253.2	2991.8	2896.8	2884.9	2890.8	2999.7	3227.4	3332.4	3284.9	3275.0
30°	3275.0	3164.1	2884.9	2797.8	2785.9	2807.7	2900.7	3132.4	3251.2	3203.7	3174.0
32.5°	3193.8	3067.1	2780.0	2712.6	2688.9	2708.7	2797.8	3033.4	3162.1	3112.6	3063.1
35°	3092.8	2964.1	2671.1	2603.7	2583.9	2605.7	2694.8	2930.4	3061.1	3011.6	2944.3
37.5°	2987.9	2855.2	2572.1	2510.7	2475.0	2500.8	2589.9	2823.5	2956.2	2904.7	2821.5
40°	2882.9	2740.4	2461.2	2397.8	2352.3	2389.9	2481.0	2710.7	2837.4	2789.9	2694.8
42.5°	2760.2	2625.5	2352.3	2263.2	2134.5	2255.2	2364.1	2597.8	2714.6	2669.1	2554.2
45°	2631.5	2502.8	2237.4	2021.6	1687.0	2041.4	2245.3	2479.0	2572.1	2528.5	2403.7
47.5°	2484.9	2376.0	2120.6	1791.9	1467.2	1811.7	2124.6	2366.1	2437.4	2389.9	2251.3
50°	2356.2	2249.3	1997.8	1597.9	1312.8	1619.7	1995.9	2239.4	2298.8	2255.2	2100.8
52.5°	2209.7	2116.6	1865.2	1425.6	1197.9	1447.4	1861.2	2108.7	2156.2	2104.8	1950.3
55°	2065.2	1982.0	1724.6	1273.2	1096.9	1293.0	1720.6	1974.1	2011.7	1952.3	1791.9
57.5°	1918.6	1843.4	1580.1	1136.5	1003.9	1158.3	1590.0	1835.5	1861.2	1786.0	1639.5
60°	1766.2	1702.8	1433.5	1015.8	912.8	1033.6	1429.6	1696.9	1712.7	1631.5	1491.0
62.5°	1613.7	1556.3	1287.0	904.9	819.7	916.8	1296.9	1550.4	1560.3	1483.0	1338.5
65°	1457.3	1403.8	1144.5	788.0	730.6	807.8	1154.4	1397.9	1407.8	1320.7	1190.0
67.5°	1294.9	1251.4	992.0	698.9	645.5	704.9	1011.8	1243.5	1249.4	1164.3	1045.5
70°	1132.6	1095.0	857.4	601.9	562.3	603.9	871.2	1073.2	1085.1	994.0	898.9
72.5°	966.3	936.6	726.7	500.9	465.3	500.9	734.6	916.8	924.7	849.4	756.4
75°	797.9	776.2	594.0	401.9	374.2	400.0	598.0	760.3	760.3	689.0	615.8
77.5°	635.6	619.7	455.4	308.9	289.1	304.9	457.4	601.9	598.0	542.5	485.1
80°	475.2	463.3	326.7	223.7	209.9	217.8	326.7	445.5	445.5	405.9	336.6
82.5°	340.6	326.7	215.8	146.5	138.6	142.6	211.9	310.9	316.8	287.1	227.7
85°	225.7	194.0	116.8	81.2	75.2	77.2	110.9	180.2	198.0	166.3	118.8
87.5°	99.0	65.3	29.7	11.9	5.9	7.9	23.8	57.4	75.2	49.5	15.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3690.8	3690.8	3690.8	3690.8	3690.8	3690.8
2.5°	3702.6	3671.0	3682.8	3690.8	3682.8	3718.5
5°	3698.7	3684.8	3682.8	3692.7	3676.9	3712.5
7.5°	3692.7	3684.8	3682.8	3686.8	3667.0	3700.7
10°	3678.9	3667.0	3671.0	3676.9	3651.2	3682.8
12.5°	3653.1	3641.3	3643.2	3663.0	3627.4	3655.1
15°	3609.6	3595.7	3609.6	3631.4	3599.7	3623.4
17.5°	3552.2	3530.4	3554.1	3587.8	3564.0	3585.8
20°	3478.9	3445.2	3471.0	3532.4	3510.6	3538.3
22.5°	3389.8	3348.2	3374.0	3463.1	3457.1	3486.8
25°	3288.8	3239.3	3275.0	3383.9	3395.7	3423.5
27.5°	3176.0	3120.5	3168.0	3296.7	3324.5	3356.1
30°	3053.2	2993.8	3049.2	3199.7	3241.3	3275.0
32.5°	2926.5	2861.1	2924.5	3090.8	3150.2	3193.8
35°	2793.8	2726.5	2797.8	2978.0	3049.2	3092.8
37.5°	2651.3	2585.9	2663.1	2859.2	2944.3	2987.9
40°	2504.7	2431.5	2518.6	2718.6	2831.4	2882.9
42.5°	2354.2	2263.2	2370.1	2585.9	2708.7	2760.2
45°	2185.9	2059.2	2203.8	2445.3	2574.0	2631.5
47.5°	2017.6	1890.9	2037.4	2294.8	2433.5	2484.9
50°	1855.3	1746.4	1863.2	2130.5	2290.9	2356.2
52.5°	1706.8	1617.7	1716.7	1970.1	2144.4	2209.7
55°	1568.2	1498.9	1580.1	1811.7	1989.9	2065.2
57.5°	1437.5	1393.9	1449.4	1661.2	1847.4	1918.6
60°	1314.7	1285.0	1324.6	1512.7	1679.1	1766.2
62.5°	1194.0	1178.1	1207.8	1356.3	1522.6	1613.7
65°	1077.1	1073.2	1089.0	1219.7	1358.3	1457.3
67.5°	960.3	958.3	968.2	1075.2	1197.9	1294.9
70°	843.5	855.4	849.4	918.7	1037.5	1132.6
72.5°	724.7	742.5	732.6	776.2	891.0	966.3
75°	592.0	615.8	596.0	645.5	716.8	797.9
77.5°	455.4	481.1	457.4	500.9	578.2	635.6
80°	326.7	350.5	330.7	364.3	431.6	475.2
82.5°	205.9	223.7	207.9	241.6	308.9	340.6
85°	91.1	101.0	104.9	130.7	190.1	225.7
87.5°	4.0	2.0	4.0	25.7	67.3	99.0
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)