

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: P520693

Luminaire Tested: **8WSLA-150-L940-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: P520693
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-L940-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

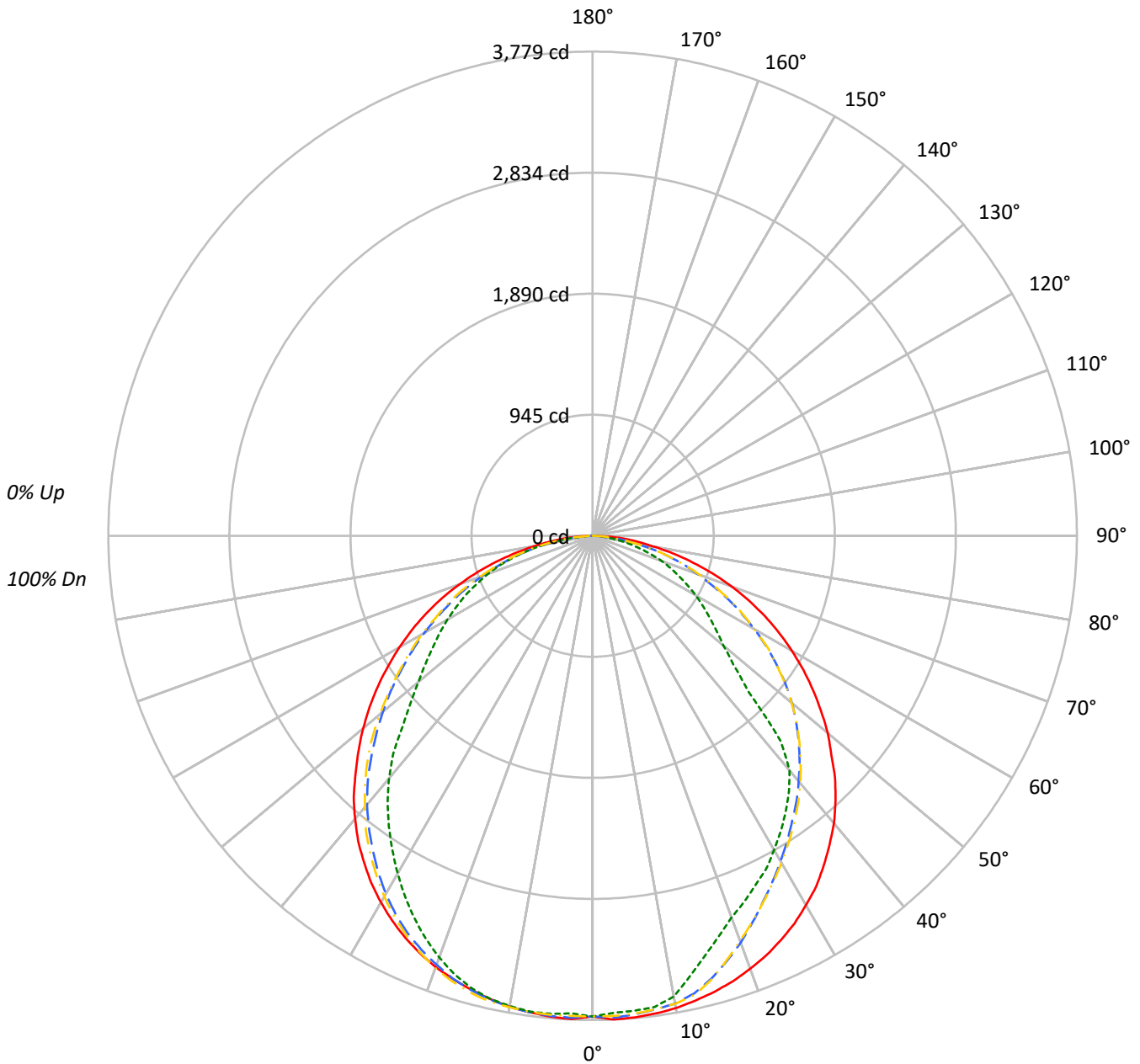
Lumens per Lamp: N/A
Luminaire Lumens: 10063.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
Input Voltage (V): NR
Input Current (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									
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°	10094	10094	10094	10094
5°	10193	10051	10176	10116
10°	10228	9975	10200	10184
15°	10260	9447	10215	10181
20°	10298	9077	10258	10027
25°	10331	8927	10277	9775
30°	10343	8798	10268	9455
35°	10326	8627	10221	9103
40°	10293	8398	10130	8681
45°	10178	6525	9948	7965
50°	10026	5586	9781	7431
55°	9848	5231	9592	7147
60°	9661	4993	9368	7029
65°	9431	4728	9110	6945
70°	9057	4497	8677	6840
75°	8432	3954	8035	6508
80°	7485	3305	7017	5520
85°	7083	2362	6212	3168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.4	3.5
10°-20°	1016.6	10.1
20°-30°	1519.1	15.1
30°-40°	1808.2	18.0
40°-50°	1807.4	18.0
50°-60°	1555.3	15.5
60°-70°	1170.6	11.6
70°-80°	667.0	6.6
80°-90°	162.4	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°	2892.1	28.7
0°-40°	4700.3	46.7
0°-60°	8063.0	80.1
0°-90°	10063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10063.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3751	3751	3751	3751	3751	
5°	3773	3721	3767	3745	3773	359
15°	3683	3391	3667	3655	3683	1040
25°	3480	3007	3461	3292	3480	1604
35°	3143	2626	3111	2771	3143	1967
45°	2674	1715	2614	2093	2674	2060
55°	2099	1115	2045	1523	2099	1877
65°	1481	743	1431	1091	1481	1463
75°	811	380	773	626	811	859
85°	229	76	201	103	229	250
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°	3751.2	3751.2	3751.2	3751.2	3751.2	3751.2	3751.2	3751.2	3751.2	3751.2	3751.2
2.5°	3779.3	3745.1	3765.2	3759.2	3727.0	3739.1	3751.2	3739.1	3775.3	3743.1	3765.2
5°	3773.3	3737.1	3749.1	3737.1	3721.0	3725.0	3743.1	3731.0	3767.3	3733.0	3761.2
7.5°	3761.2	3716.9	3729.0	3723.0	3708.9	3710.9	3729.0	3719.0	3751.2	3719.0	3751.2
10°	3743.1	3696.8	3706.9	3680.7	3650.5	3672.7	3708.9	3698.8	3733.0	3696.8	3733.0
12.5°	3714.9	3668.6	3658.6	3572.0	3517.7	3560.0	3670.7	3670.7	3702.9	3668.6	3706.9
15°	3682.7	3632.4	3578.1	3447.3	3390.9	3433.2	3586.1	3638.5	3666.6	3632.4	3670.7
17.5°	3644.5	3586.1	3481.5	3328.5	3276.2	3318.5	3475.5	3590.2	3626.4	3590.2	3624.4
20°	3596.2	3527.8	3378.9	3203.8	3169.6	3207.8	3364.8	3531.8	3582.1	3537.8	3562.0
22.5°	3543.9	3461.4	3264.1	3107.2	3091.1	3115.2	3258.1	3459.4	3525.8	3479.5	3495.6
25°	3479.5	3382.9	3149.4	3018.6	3006.6	3020.6	3153.5	3374.8	3461.4	3413.1	3419.1
27.5°	3411.1	3306.4	3040.8	2944.2	2932.1	2938.1	3048.8	3280.2	3386.9	3338.6	3328.5
30°	3328.5	3215.8	2932.1	2843.6	2831.5	2853.6	2948.2	3183.7	3304.4	3256.1	3225.9
32.5°	3246.0	3117.2	2825.4	2757.0	2732.9	2753.0	2843.6	3083.0	3213.8	3163.5	3113.2
35°	3143.4	3012.6	2714.8	2646.3	2626.2	2648.3	2738.9	2978.4	3111.2	3060.9	2992.5
37.5°	3036.7	2901.9	2614.1	2551.8	2515.5	2541.7	2632.2	2869.7	3004.5	2952.2	2867.7
40°	2930.1	2785.2	2501.4	2437.0	2390.8	2429.0	2521.6	2755.0	2883.8	2835.5	2738.9
42.5°	2805.3	2668.5	2390.8	2300.2	2169.4	2292.1	2402.8	2640.3	2759.0	2712.7	2596.0
45°	2674.5	2543.7	2274.0	2054.7	1714.6	2074.8	2282.1	2519.6	2614.1	2569.9	2443.1
47.5°	2525.6	2414.9	2155.3	1821.2	1491.2	1841.4	2159.3	2404.8	2477.3	2429.0	2288.1
50°	2394.8	2286.1	2030.5	1624.0	1334.2	1646.2	2028.5	2276.0	2336.4	2292.1	2135.2
52.5°	2245.9	2151.3	1895.7	1448.9	1217.5	1471.1	1891.7	2143.2	2191.5	2139.2	1982.2
55°	2099.0	2014.4	1752.8	1294.0	1114.9	1314.1	1748.8	2006.4	2044.6	1984.2	1821.2
57.5°	1950.0	1873.6	1605.9	1155.1	1020.3	1177.3	1616.0	1865.5	1891.7	1815.2	1666.3
60°	1795.1	1730.7	1457.0	1032.4	927.7	1050.5	1453.0	1724.6	1740.7	1658.2	1515.4
62.5°	1640.1	1581.8	1308.1	919.7	833.1	931.8	1318.1	1575.7	1585.8	1507.3	1360.4
65°	1481.1	1426.8	1163.2	800.9	742.6	821.1	1173.2	1420.8	1430.8	1342.3	1209.5
67.5°	1316.1	1271.9	1008.2	710.4	656.0	716.4	1028.3	1263.8	1269.8	1183.3	1062.6
70°	1151.1	1112.9	871.4	611.8	571.5	613.8	885.5	1090.7	1102.8	1010.2	913.6
72.5°	982.1	951.9	738.6	509.1	472.9	509.1	746.6	931.8	939.8	863.3	768.7
75°	811.0	788.9	603.7	408.5	380.3	406.5	607.8	772.8	772.8	700.3	625.9
77.5°	646.0	629.9	462.9	313.9	293.8	309.9	464.9	611.8	607.8	551.4	493.0
80°	483.0	470.9	332.0	227.4	213.3	221.4	332.0	452.8	452.8	412.5	342.1
82.5°	346.1	332.0	219.4	148.9	140.9	144.9	215.3	316.0	322.0	291.8	231.4
85°	229.4	197.2	118.7	82.5	76.5	78.5	112.7	183.1	201.2	169.0	120.7
87.5°	100.6	66.4	30.2	12.1	6.0	8.0	24.1	58.4	76.5	50.3	16.1
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°	3751.2	3751.2	3751.2	3751.2	3751.2	3751.2
2.5°	3763.2	3731.0	3743.1	3751.2	3743.1	3779.3
5°	3759.2	3745.1	3743.1	3753.2	3737.1	3773.3
7.5°	3753.2	3745.1	3743.1	3747.1	3727.0	3761.2
10°	3739.1	3727.0	3731.0	3737.1	3710.9	3743.1
12.5°	3712.9	3700.8	3702.9	3723.0	3686.8	3714.9
15°	3668.6	3654.6	3668.6	3690.8	3658.6	3682.7
17.5°	3610.3	3588.1	3612.3	3646.5	3622.4	3644.5
20°	3535.8	3501.6	3527.8	3590.2	3568.0	3596.2
22.5°	3445.3	3403.0	3429.2	3519.7	3513.7	3543.9
25°	3342.6	3292.3	3328.5	3439.2	3451.3	3479.5
27.5°	3227.9	3171.6	3219.9	3350.7	3378.9	3411.1
30°	3103.2	3042.8	3099.1	3252.1	3294.3	3328.5
32.5°	2974.4	2907.9	2972.3	3141.4	3201.8	3246.0
35°	2839.5	2771.1	2843.6	3026.7	3099.1	3143.4
37.5°	2694.6	2628.2	2706.7	2905.9	2992.5	3036.7
40°	2545.7	2471.3	2559.8	2763.1	2877.8	2930.1
42.5°	2392.8	2300.2	2408.9	2628.2	2753.0	2805.3
45°	2221.7	2092.9	2239.8	2485.3	2616.1	2674.5
47.5°	2050.7	1921.9	2070.8	2332.4	2473.3	2525.6
50°	1885.6	1775.0	1893.7	2165.4	2328.4	2394.8
52.5°	1734.7	1644.1	1744.8	2002.4	2179.5	2245.9
55°	1593.8	1523.4	1605.9	1841.4	2022.5	2099.0
57.5°	1461.0	1416.7	1473.1	1688.4	1877.6	1950.0
60°	1336.2	1306.1	1346.3	1537.5	1706.5	1795.1
62.5°	1213.5	1197.4	1227.6	1378.5	1547.6	1640.1
65°	1094.8	1090.7	1106.8	1239.7	1380.5	1481.1
67.5°	976.0	974.0	984.1	1092.7	1217.5	1316.1
70°	857.3	869.4	863.3	933.8	1054.5	1151.1
72.5°	736.5	754.7	744.6	788.9	905.6	982.1
75°	601.7	625.9	605.7	656.0	728.5	811.0
77.5°	462.9	489.0	464.9	509.1	587.6	646.0
80°	332.0	356.2	336.1	370.3	438.7	483.0
82.5°	209.3	227.4	211.3	245.5	313.9	346.1
85°	92.6	102.6	106.7	132.8	193.2	229.4
87.5°	4.0	2.0	4.0	26.2	68.4	100.6
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)