

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: P520696

Luminaire Tested: **8WSLA-150-L950-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: P520696
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-L950-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

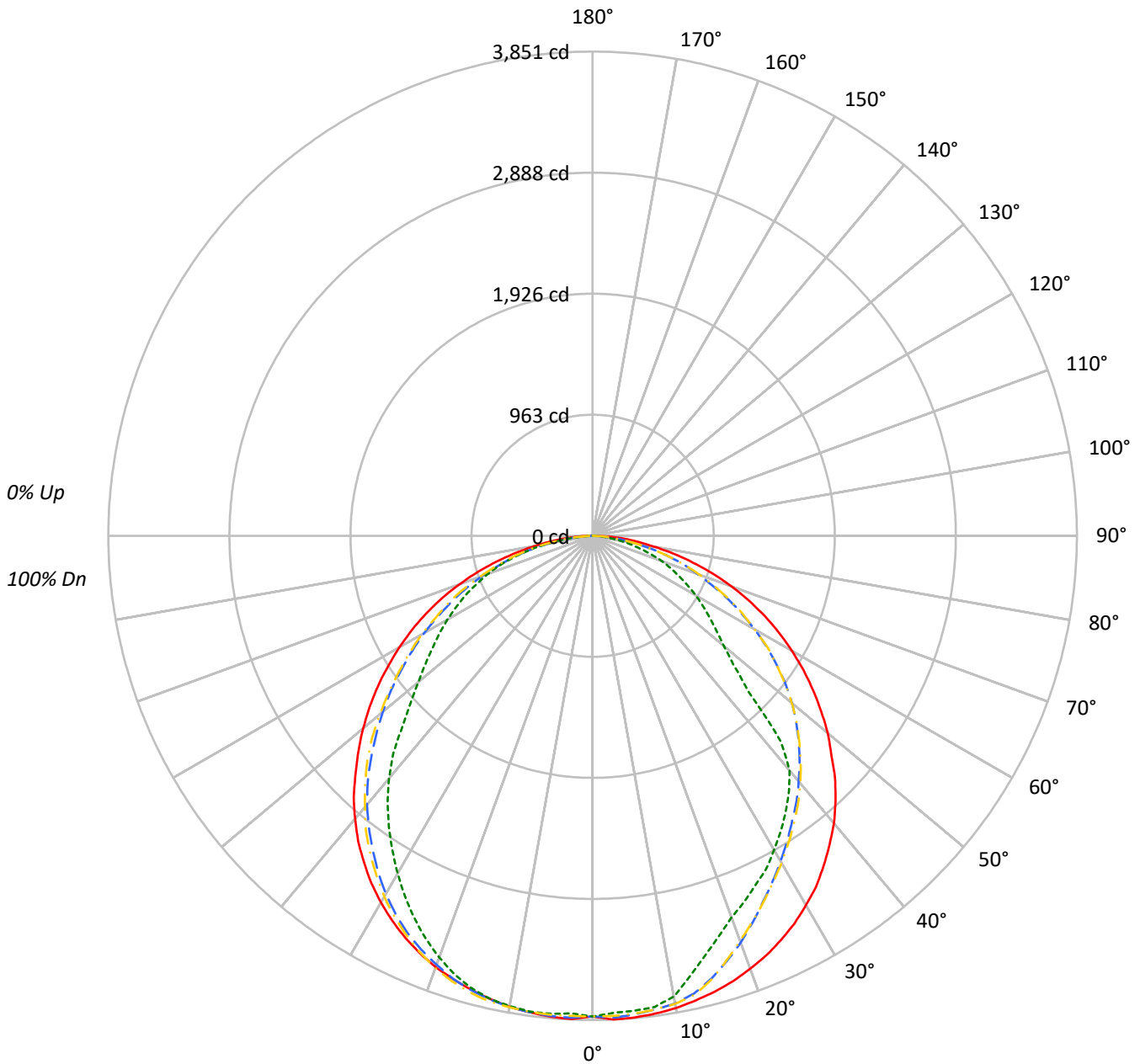
Lumens per Lamp: N/A
Luminaire Lumens: 10255.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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°	10287	10287	10287	10287
5°	10387	10243	10370	10310
10°	10423	10165	10395	10378
15°	10456	9627	10410	10376
20°	10495	9250	10454	10219
25°	10528	9097	10473	9962
30°	10540	8966	10463	9635
35°	10523	8792	10416	9277
40°	10489	8559	10323	8847
45°	10372	6650	10138	8117
50°	10217	5692	9968	7572
55°	10035	5331	9775	7284
60°	9845	5088	9548	7163
65°	9611	4819	9284	7077
70°	9230	4582	8842	6971
75°	8593	4030	8188	6631
80°	7627	3369	7150	5625
85°	7219	2405	6333	3230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.2	3.5
10°-20°	1036.0	10.1
20°-30°	1548.0	15.1
30°-40°	1842.7	18.0
40°-50°	1841.9	18.0
50°-60°	1584.9	15.5
60°-70°	1192.9	11.6
70°-80°	679.8	6.6
80°-90°	165.5	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°	2947.3	28.7
0°-40°	4790.0	46.7
0°-60°	8216.9	80.1
0°-90°	10255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10255.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3823	3823	3823	3823	3823	
5°	3845	3792	3839	3817	3845	366
15°	3753	3456	3737	3724	3753	1060
25°	3546	3064	3527	3355	3546	1635
35°	3203	2676	3171	2824	3203	2004
45°	2726	1747	2664	2133	2726	2099
55°	2139	1136	2084	1552	2139	1912
65°	1509	757	1458	1112	1509	1491
75°	826	388	788	638	826	875
85°	234	78	205	105	234	254
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°	3822.7	3822.7	3822.7	3822.7	3822.7	3822.7	3822.7	3822.7	3822.7	3822.7	3822.7
2.5°	3851.4	3816.6	3837.1	3830.9	3798.1	3810.4	3822.7	3810.4	3847.3	3814.5	3837.1
5°	3845.3	3808.4	3820.7	3808.4	3792.0	3796.1	3814.5	3802.2	3839.1	3804.3	3833.0
7.5°	3833.0	3787.9	3800.2	3794.0	3779.7	3781.7	3800.2	3789.9	3822.7	3789.9	3822.7
10°	3814.5	3767.4	3777.6	3750.9	3720.2	3742.7	3779.7	3769.4	3804.3	3767.4	3804.3
12.5°	3785.8	3738.6	3728.4	3640.2	3584.8	3627.9	3740.7	3740.7	3773.5	3738.6	3777.6
15°	3753.0	3701.7	3646.4	3513.1	3455.6	3498.7	3654.6	3707.9	3736.6	3701.7	3740.7
17.5°	3714.0	3654.6	3547.9	3392.1	3338.7	3381.8	3541.8	3658.7	3695.6	3658.7	3693.5
20°	3664.8	3595.1	3443.3	3264.9	3230.0	3269.0	3429.0	3599.2	3650.5	3605.3	3629.9
22.5°	3611.5	3527.4	3326.4	3166.5	3150.1	3174.7	3320.3	3525.4	3593.0	3545.9	3562.3
25°	3545.9	3447.4	3209.5	3076.2	3063.9	3078.3	3213.6	3439.2	3527.4	3478.2	3484.3
27.5°	3476.1	3369.5	3098.8	3000.3	2988.0	2994.2	3107.0	3342.8	3451.5	3402.3	3392.1
30°	3392.1	3277.2	2988.0	2897.8	2885.5	2908.1	3004.4	3244.4	3367.4	3318.2	3287.5
32.5°	3308.0	3176.7	2879.3	2809.6	2785.0	2805.5	2897.8	3141.9	3275.2	3223.9	3172.6
35°	3203.4	3070.1	2766.6	2696.8	2676.3	2698.9	2791.2	3035.2	3170.6	3119.3	3049.6
37.5°	3094.7	2957.3	2664.0	2600.4	2563.5	2590.2	2682.5	2924.5	3061.9	3008.6	2922.4
40°	2986.0	2838.3	2549.2	2483.5	2436.4	2475.3	2569.7	2807.6	2938.8	2889.6	2791.2
42.5°	2858.8	2719.4	2436.4	2344.1	2210.8	2335.9	2448.7	2690.7	2811.7	2764.5	2645.6
45°	2725.5	2592.2	2317.4	2093.9	1747.3	2114.4	2325.6	2567.6	2664.0	2618.9	2489.7
47.5°	2573.8	2461.0	2196.4	1856.0	1519.7	1876.5	2200.5	2450.7	2524.6	2475.3	2331.8
50°	2440.5	2329.7	2069.3	1655.0	1359.7	1677.6	2067.2	2319.5	2381.0	2335.9	2175.9
52.5°	2288.7	2192.3	1931.9	1476.6	1240.7	1499.1	1927.8	2184.1	2233.3	2180.0	2020.1
55°	2139.0	2052.9	1786.3	1318.7	1136.2	1339.2	1782.2	2044.7	2083.6	2022.1	1856.0
57.5°	1987.2	1909.3	1636.6	1177.2	1039.8	1199.7	1646.8	1901.1	1927.8	1849.8	1698.1
60°	1829.3	1763.7	1484.8	1052.1	945.4	1070.5	1480.7	1757.6	1774.0	1689.9	1544.3
62.5°	1671.4	1611.9	1333.0	937.2	849.0	949.5	1343.3	1605.8	1616.0	1536.1	1386.4
65°	1509.4	1454.0	1185.4	816.2	756.8	836.7	1195.6	1447.9	1458.1	1367.9	1232.5
67.5°	1341.2	1296.1	1027.5	723.9	668.6	730.1	1048.0	1287.9	1294.1	1205.9	1082.8
70°	1173.1	1134.1	888.0	623.4	582.4	625.5	902.4	1111.5	1123.8	1029.5	931.1
72.5°	1000.8	970.0	752.7	518.9	481.9	518.9	760.9	949.5	957.7	879.8	783.4
75°	826.5	803.9	615.2	416.3	387.6	414.3	619.3	787.5	787.5	713.7	637.8
77.5°	658.3	641.9	471.7	319.9	299.4	315.8	473.7	623.4	619.3	561.9	502.5
80°	492.2	479.9	338.4	231.7	217.4	225.6	338.4	461.4	461.4	420.4	348.6
82.5°	352.7	338.4	223.5	151.8	143.6	147.7	219.4	322.0	328.1	297.4	235.8
85°	233.8	201.0	121.0	84.1	77.9	80.0	114.8	186.6	205.1	172.3	123.0
87.5°	102.5	67.7	30.8	12.3	6.2	8.2	24.6	59.5	77.9	51.3	16.4
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°	3822.7	3822.7	3822.7	3822.7	3822.7	3822.7
2.5°	3835.0	3802.2	3814.5	3822.7	3814.5	3851.4
5°	3830.9	3816.6	3814.5	3824.8	3808.4	3845.3
7.5°	3824.8	3816.6	3814.5	3818.6	3798.1	3833.0
10°	3810.4	3798.1	3802.2	3808.4	3781.7	3814.5
12.5°	3783.8	3771.5	3773.5	3794.0	3757.1	3785.8
15°	3738.6	3724.3	3738.6	3761.2	3728.4	3753.0
17.5°	3679.2	3656.6	3681.2	3716.1	3691.5	3714.0
20°	3603.3	3568.4	3595.1	3658.7	3636.1	3664.8
22.5°	3511.0	3467.9	3494.6	3586.9	3580.7	3611.5
25°	3406.4	3355.1	3392.1	3504.8	3517.2	3545.9
27.5°	3289.5	3232.1	3281.3	3414.6	3443.3	3476.1
30°	3162.4	3100.8	3158.3	3314.1	3357.2	3392.1
32.5°	3031.1	2963.4	3029.1	3201.3	3262.9	3308.0
35°	2893.7	2824.0	2897.8	3084.4	3158.3	3203.4
37.5°	2746.0	2678.4	2758.4	2961.4	3049.6	3094.7
40°	2594.3	2518.4	2608.6	2815.8	2932.7	2986.0
42.5°	2438.4	2344.1	2454.8	2678.4	2805.5	2858.8
45°	2264.1	2132.9	2282.6	2532.8	2666.1	2725.5
47.5°	2089.8	1958.5	2110.3	2376.9	2520.5	2573.8
50°	1921.6	1808.8	1929.8	2206.7	2372.8	2440.5
52.5°	1767.8	1675.5	1778.1	2040.6	2221.0	2288.7
55°	1624.2	1552.5	1636.6	1876.5	2061.1	2139.0
57.5°	1488.9	1443.8	1501.2	1720.6	1913.4	1987.2
60°	1361.7	1331.0	1372.0	1566.8	1739.1	1829.3
62.5°	1236.6	1220.2	1251.0	1404.8	1577.1	1671.4
65°	1115.6	1111.5	1128.0	1263.3	1406.9	1509.4
67.5°	994.6	992.6	1002.9	1113.6	1240.7	1341.2
70°	873.6	886.0	879.8	951.6	1074.6	1173.1
72.5°	750.6	769.1	758.8	803.9	922.9	1000.8
75°	613.2	637.8	617.3	668.6	742.4	826.5
77.5°	471.7	498.3	473.7	518.9	598.8	658.3
80°	338.4	363.0	342.5	377.4	447.1	492.2
82.5°	213.3	231.7	215.3	250.2	319.9	352.7
85°	94.3	104.6	108.7	135.4	196.9	233.8
87.5°	4.1	2.1	4.1	26.7	69.7	102.5
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)