

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: P520711

Luminaire Tested: **8WSLA-175-L930-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: P520711
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-175-L930-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

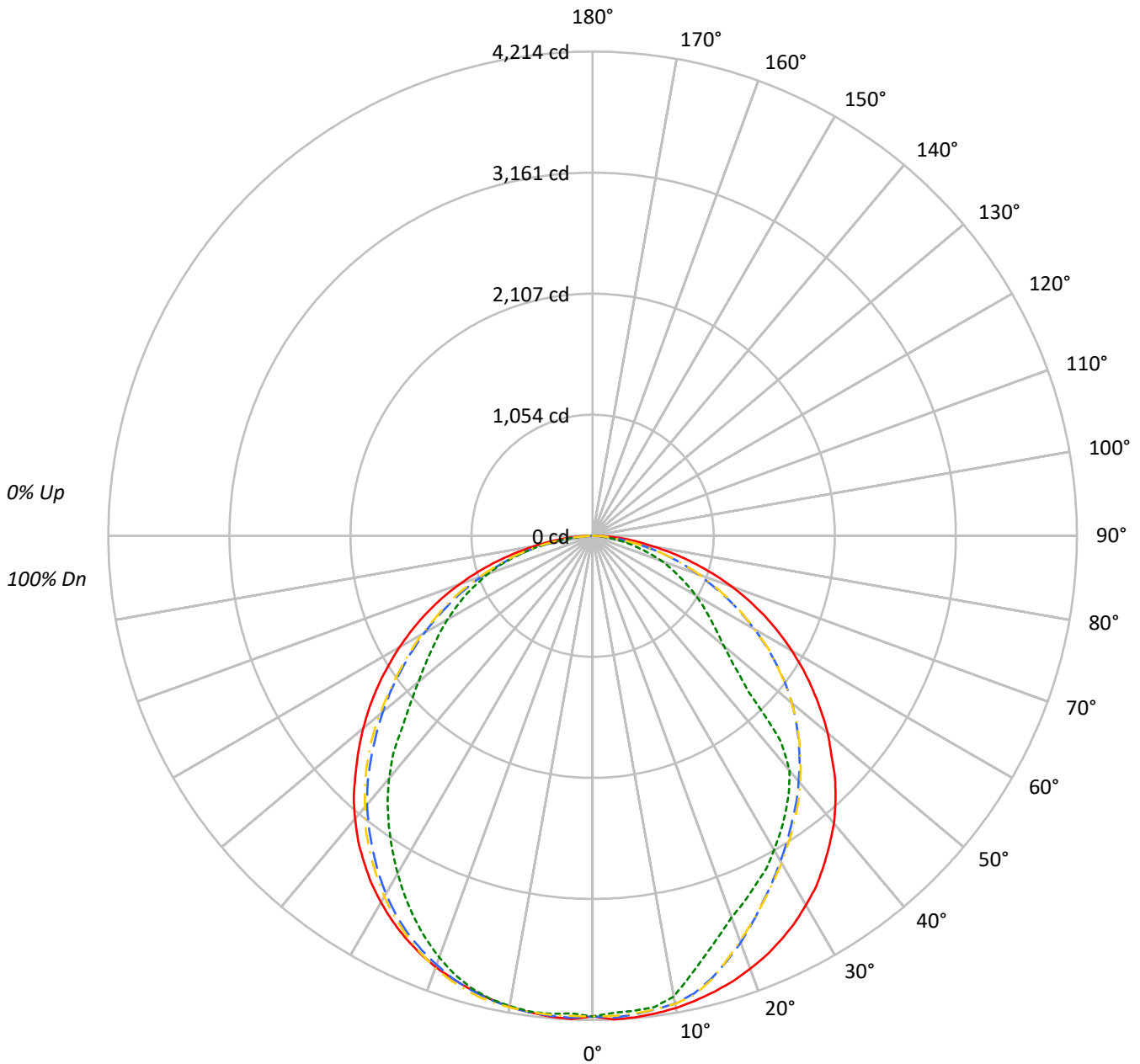
Lumens per Lamp: N/A
Luminaire Lumens: 11221.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 119
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

TEST NUMBER: P520711

CATALOG NUMBER: 8WSLA-175-L930-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520711

CATALOG NUMBER: 8WSLA-175-L930-UNV-U

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°	11256	11256	11256	11256
5°	11366	11208	11347	11281
10°	11405	11123	11374	11356
15°	11440	10534	11390	11353
20°	11483	10121	11438	11182
25°	11520	9954	11460	10900
30°	11533	9811	11449	10543
35°	11515	9620	11397	10151
40°	11477	9365	11296	9680
45°	11349	7276	11093	8882
50°	11179	6229	10907	8286
55°	10981	5833	10696	7970
60°	10773	5568	10447	7838
65°	10516	5272	10159	7744
70°	10099	5014	9675	7627
75°	9402	4409	8959	7256
80°	8347	3687	7824	6155
85°	7898	2634	6928	3532



TEST NUMBER: P520711

CATALOG NUMBER: 8WSLA-175-L930-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.4	3.5
10°-20°	1133.6	10.1
20°-30°	1693.9	15.1
30°-40°	2016.3	18.0
40°-50°	2015.4	18.0
50°-60°	1734.2	15.5
60°-70°	1305.3	11.6
70°-80°	743.8	6.6
80°-90°	181.1	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°	3224.9	28.7
0°-40°	5241.2	46.7
0°-60°	8990.9	80.1
0°-90°	11221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11221.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4183	4183	4183	4183	4183	
5°	4208	4149	4201	4176	4208	400
15°	4106	3781	4089	4075	4106	1160
25°	3880	3352	3860	3671	3880	1789
35°	3505	2928	3469	3090	3505	2193
45°	2982	1912	2915	2334	2982	2297
55°	2340	1243	2280	1699	2340	2093
65°	1652	828	1596	1216	1652	1631
75°	904	424	862	698	904	957
85°	256	85	224	114	256	278
90°	0	0	0	0	0	



TEST NUMBER: P520711

CATALOG NUMBER: 8WSLA-175-L930-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8
2.5°	4214.2	4176.1	4198.5	4191.8	4155.9	4169.4	4182.8	4169.4	4209.7	4173.8	4198.5
5°	4207.5	4167.1	4180.6	4167.1	4149.2	4153.6	4173.8	4160.4	4200.8	4162.6	4194.0
7.5°	4194.0	4144.7	4158.1	4151.4	4135.7	4137.9	4158.1	4146.9	4182.8	4146.9	4182.8
10°	4173.8	4122.2	4133.5	4104.3	4070.6	4095.3	4135.7	4124.5	4162.6	4122.2	4162.6
12.5°	4142.4	4090.8	4079.6	3983.1	3922.5	3969.6	4093.1	4093.1	4129.0	4090.8	4133.5
15°	4106.5	4050.4	3989.8	3844.0	3781.1	3828.3	3998.8	4057.2	4088.6	4050.4	4093.1
17.5°	4063.9	3998.8	3882.1	3711.6	3653.2	3700.4	3875.4	4003.3	4043.7	4003.3	4041.4
20°	4010.0	3933.7	3767.7	3572.4	3534.3	3576.9	3752.0	3938.2	3994.3	3945.0	3971.9
22.5°	3951.7	3859.7	3639.8	3464.7	3446.8	3473.7	3633.0	3857.4	3931.5	3879.9	3897.8
25°	3879.9	3772.2	3511.9	3366.0	3352.5	3368.2	3516.3	3763.2	3859.7	3805.8	3812.6
27.5°	3803.6	3686.9	3390.7	3283.0	3269.5	3276.2	3399.7	3657.7	3776.7	3722.8	3711.6
30°	3711.6	3585.9	3269.5	3170.8	3157.3	3182.0	3287.5	3550.0	3684.6	3630.8	3597.1
32.5°	3619.6	3476.0	3150.6	3074.3	3047.4	3069.8	3170.8	3437.8	3583.7	3527.6	3471.5
35°	3505.1	3359.3	3027.2	2950.9	2928.4	2953.1	3054.1	3321.1	3469.2	3413.1	3336.8
37.5°	3386.2	3235.8	2915.0	2845.4	2805.0	2834.2	2935.2	3199.9	3350.3	3291.9	3197.7
40°	3267.3	3105.7	2789.3	2717.5	2665.9	2708.5	2811.7	3072.0	3215.7	3161.8	3054.1
42.5°	3128.1	2975.5	2665.9	2564.9	2419.0	2555.9	2679.3	2944.1	3076.5	3024.9	2894.8
45°	2982.3	2836.4	2535.7	2291.1	1911.9	2313.6	2544.7	2809.5	2915.0	2865.6	2724.2
47.5°	2816.2	2692.8	2403.3	2030.8	1662.8	2053.3	2407.8	2681.6	2762.4	2708.5	2551.4
50°	2670.4	2549.2	2264.2	1810.9	1487.8	1835.6	2262.0	2538.0	2605.3	2555.9	2380.9
52.5°	2504.3	2398.8	2113.8	1615.7	1357.6	1640.4	2109.4	2389.9	2443.7	2385.4	2210.3
55°	2340.5	2246.2	1954.5	1442.9	1243.2	1465.3	1950.0	2237.3	2279.9	2212.6	2030.8
57.5°	2174.4	2089.2	1790.7	1288.1	1137.7	1312.7	1801.9	2080.2	2109.4	2024.1	1858.0
60°	2001.6	1929.8	1624.7	1151.2	1034.5	1171.4	1620.2	1923.1	1941.1	1849.1	1689.7
62.5°	1828.9	1763.8	1458.6	1025.5	929.0	1039.0	1469.8	1757.1	1768.3	1680.8	1516.9
65°	1651.6	1591.0	1297.0	893.1	828.0	915.6	1308.3	1584.3	1595.5	1496.7	1348.6
67.5°	1467.6	1418.2	1124.2	792.1	731.5	798.9	1146.7	1409.2	1416.0	1319.5	1184.8
70°	1283.6	1240.9	971.7	682.2	637.3	684.4	987.4	1216.2	1229.7	1126.5	1018.8
72.5°	1095.1	1061.4	823.5	567.7	527.3	567.7	832.5	1039.0	1047.9	962.7	857.2
75°	904.3	879.6	673.2	455.5	424.1	453.3	677.7	861.7	861.7	780.9	697.9
77.5°	720.3	702.4	516.1	350.1	327.6	345.6	518.4	682.2	677.7	614.9	549.8
80°	538.6	525.1	370.3	253.6	237.9	246.8	370.3	504.9	504.9	460.0	381.5
82.5°	386.0	370.3	244.6	166.1	157.1	161.6	240.1	352.3	359.0	325.4	258.1
85°	255.8	219.9	132.4	92.0	85.3	87.5	125.7	204.2	224.4	188.5	134.6
87.5°	112.2	74.1	33.7	13.5	6.7	9.0	26.9	65.1	85.3	56.1	18.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P520711

CATALOG NUMBER: 8WSLA-175-L930-UNV-U

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8
2.5°	4196.3	4160.4	4173.8	4182.8	4173.8	4214.2
5°	4191.8	4176.1	4173.8	4185.1	4167.1	4207.5
7.5°	4185.1	4176.1	4173.8	4178.3	4155.9	4194.0
10°	4169.4	4155.9	4160.4	4167.1	4137.9	4173.8
12.5°	4140.2	4126.7	4129.0	4151.4	4111.0	4142.4
15°	4090.8	4075.1	4090.8	4115.5	4079.6	4106.5
17.5°	4025.7	4001.1	4028.0	4066.1	4039.2	4063.9
20°	3942.7	3904.6	3933.7	4003.3	3978.6	4010.0
22.5°	3841.7	3794.6	3823.8	3924.8	3918.0	3951.7
25°	3727.3	3671.2	3711.6	3835.0	3848.5	3879.9
27.5°	3599.4	3536.5	3590.4	3736.3	3767.7	3803.6
30°	3460.2	3392.9	3455.8	3626.3	3673.4	3711.6
32.5°	3316.6	3242.6	3314.4	3502.9	3570.2	3619.6
35°	3166.3	3090.0	3170.8	3375.0	3455.8	3505.1
37.5°	3004.7	2930.7	3018.2	3240.3	3336.8	3386.2
40°	2838.7	2755.6	2854.4	3081.0	3208.9	3267.3
42.5°	2668.1	2564.9	2686.1	2930.7	3069.8	3128.1
45°	2477.4	2333.8	2497.6	2771.3	2917.2	2982.3
47.5°	2286.6	2143.0	2309.1	2600.8	2757.9	2816.2
50°	2102.6	1979.2	2111.6	2414.5	2596.3	2670.4
52.5°	1934.3	1833.3	1945.5	2232.8	2430.3	2504.3
55°	1777.2	1698.7	1790.7	2053.3	2255.2	2340.5
57.5°	1629.1	1579.8	1642.6	1882.7	2093.7	2174.4
60°	1490.0	1456.4	1501.2	1714.4	1902.9	2001.6
62.5°	1353.1	1335.2	1368.8	1537.1	1725.6	1828.9
65°	1220.7	1216.2	1234.2	1382.3	1539.4	1651.6
67.5°	1088.3	1086.1	1097.3	1218.5	1357.6	1467.6
70°	955.9	969.4	962.7	1041.2	1175.9	1283.6
72.5°	821.3	841.5	830.3	879.6	1009.8	1095.1
75°	671.0	697.9	675.4	731.5	812.3	904.3
77.5°	516.1	545.3	518.4	567.7	655.2	720.3
80°	370.3	397.2	374.7	412.9	489.2	538.6
82.5°	233.4	253.6	235.6	273.8	350.1	386.0
85°	103.2	114.4	118.9	148.1	215.4	255.8
87.5°	4.5	2.2	4.5	29.2	76.3	112.2
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)