

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: P520759

Luminaire Tested: **8WSLA-50-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: P520759
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-50-L930-UNV-U
Description: 8 FOOT, 1000 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

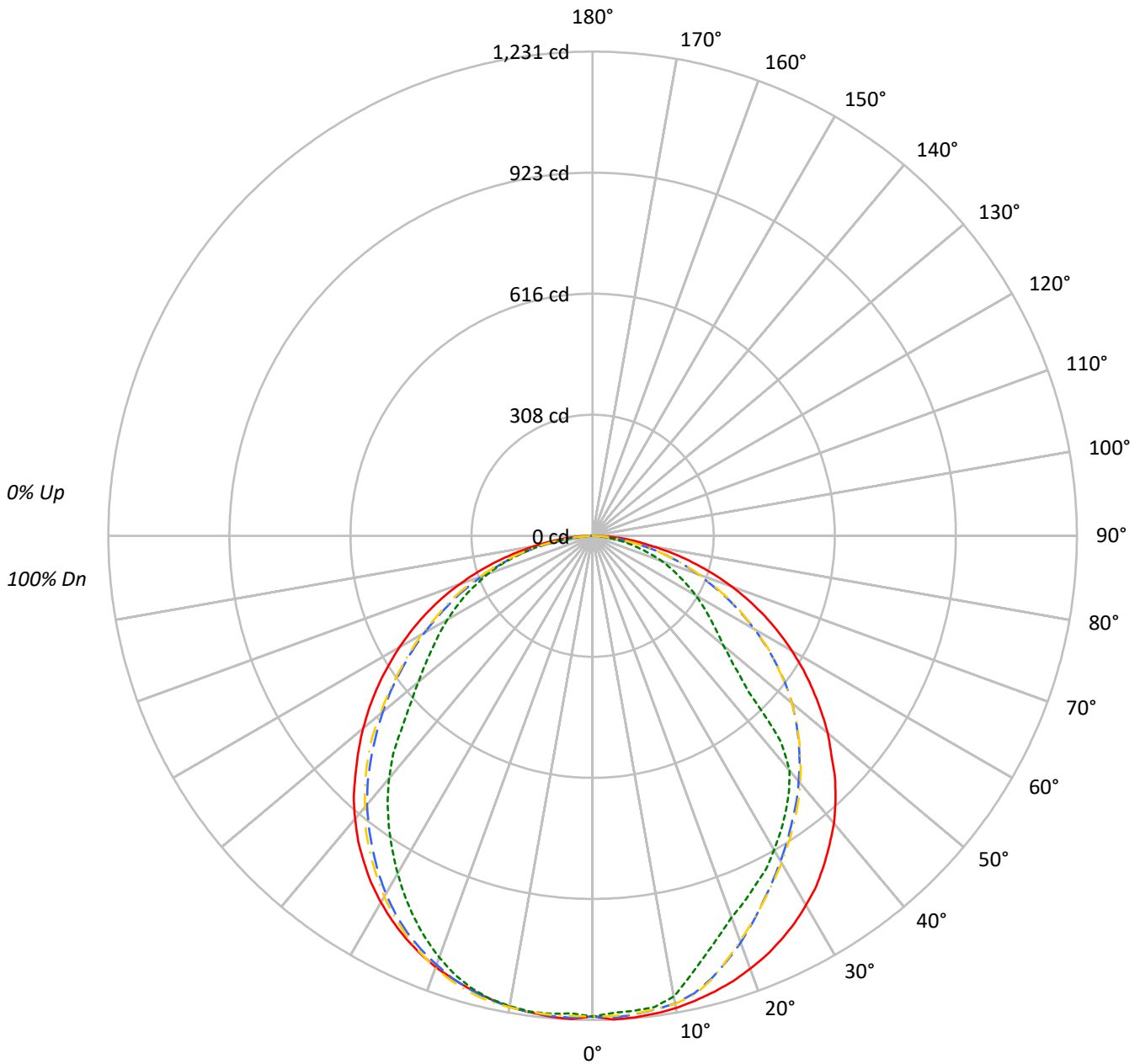
Lumens per Lamp: N/A
Luminaire Lumens: 3278.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 30.5
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				20				
RC	80				70				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°	3288	3288	3288	3288
5°	3320	3274	3315	3296
10°	3332	3249	3323	3318
15°	3342	3077	3327	3317
20°	3355	2957	3342	3266
25°	3365	2908	3348	3184
30°	3369	2866	3345	3080
35°	3364	2810	3329	2965
40°	3353	2736	3300	2828
45°	3315	2125	3240	2595
50°	3266	1819	3186	2421
55°	3208	1704	3125	2328
60°	3147	1626	3052	2289
65°	3072	1540	2968	2262
70°	2950	1465	2826	2228
75°	2747	1288	2617	2120
80°	2438	1077	2286	1798
85°	2306	769	2025	1031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	3.5
10°-20°	331.2	10.1
20°-30°	494.8	15.1
30°-40°	589.0	18.0
40°-50°	588.8	18.0
50°-60°	506.6	15.5
60°-70°	381.3	11.6
70°-80°	217.3	6.6
80°-90°	52.9	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°	942.1	28.7
0°-40°	1531.1	46.7
0°-60°	2626.5	80.1
0°-90°	3278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3278.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1222	1222	1222	1222	1222	
5°	1229	1212	1227	1220	1229	117
15°	1200	1105	1194	1190	1200	339
25°	1133	979	1128	1072	1133	523
35°	1024	856	1014	903	1024	641
45°	871	558	852	682	871	671
55°	684	363	666	496	684	611
65°	482	242	466	355	482	476
75°	264	124	252	204	264	280
85°	75	25	66	33	75	81
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°	1221.9	1221.9	1221.9	1221.9	1221.9	1221.9	1221.9	1221.9	1221.9	1221.9	1221.9
2.5°	1231.1	1220.0	1226.5	1224.6	1214.1	1218.0	1221.9	1218.0	1229.8	1219.3	1226.5
5°	1229.1	1217.3	1221.3	1217.3	1212.1	1213.4	1219.3	1215.4	1227.2	1216.0	1225.2
7.5°	1225.2	1210.8	1214.7	1212.8	1208.2	1208.8	1214.7	1211.4	1221.9	1211.4	1221.9
10°	1219.3	1204.2	1207.5	1199.0	1189.2	1196.4	1208.2	1204.9	1216.0	1204.2	1216.0
12.5°	1210.1	1195.1	1191.8	1163.6	1145.9	1159.7	1195.7	1195.7	1206.2	1195.1	1207.5
15°	1199.6	1183.3	1165.6	1122.9	1104.6	1118.4	1168.2	1185.2	1194.4	1183.3	1195.7
17.5°	1187.2	1168.2	1134.1	1084.3	1067.2	1081.0	1132.1	1169.5	1181.3	1169.5	1180.6
20°	1171.5	1149.2	1100.7	1043.6	1032.5	1044.9	1096.1	1150.5	1166.9	1152.4	1160.3
22.5°	1154.4	1127.5	1063.3	1012.2	1006.9	1014.8	1061.3	1126.9	1148.5	1133.4	1138.7
25°	1133.4	1102.0	1025.9	983.3	979.4	984.0	1027.2	1099.3	1127.5	1111.8	1113.8
27.5°	1111.1	1077.1	990.5	959.1	955.1	957.1	993.1	1068.5	1103.3	1087.5	1084.3
30°	1084.3	1047.6	955.1	926.3	922.3	929.6	960.4	1037.1	1076.4	1060.7	1050.8
32.5°	1057.4	1015.4	920.4	898.1	890.2	896.8	926.3	1004.3	1046.9	1030.5	1014.1
35°	1024.0	981.3	884.3	862.0	855.5	862.7	892.2	970.2	1013.5	997.1	974.8
37.5°	989.2	945.3	851.5	831.2	819.4	827.9	857.4	934.8	978.7	961.7	934.1
40°	954.5	907.3	814.8	793.9	778.8	791.2	821.4	897.4	939.4	923.7	892.2
42.5°	913.8	869.2	778.8	749.3	706.7	746.7	782.7	860.1	898.7	883.7	845.6
45°	871.2	828.6	740.8	669.3	558.5	675.9	743.4	820.7	851.5	837.1	795.8
47.5°	822.7	786.7	702.1	593.3	485.8	599.8	703.4	783.4	807.0	791.2	745.4
50°	780.1	744.7	661.4	529.0	434.6	536.2	660.8	741.4	761.1	746.7	695.5
52.5°	731.6	700.8	617.5	472.0	396.6	479.2	616.2	698.2	713.9	696.8	645.7
55°	683.7	656.2	571.0	421.5	363.2	428.1	569.7	653.6	666.0	646.4	593.3
57.5°	635.2	610.3	523.1	376.3	332.4	383.5	526.4	607.7	616.2	591.3	542.8
60°	584.7	563.8	474.6	336.3	302.2	342.2	473.3	561.8	567.0	540.2	493.6
62.5°	534.3	515.3	426.1	299.6	271.4	303.5	429.4	513.3	516.6	491.0	443.1
65°	482.5	464.8	378.9	260.9	241.9	267.5	382.2	462.8	466.1	437.2	394.0
67.5°	428.7	414.3	328.4	231.4	213.7	233.4	335.0	411.7	413.6	385.5	346.1
70°	375.0	362.5	283.8	199.3	186.2	199.9	288.4	355.3	359.2	329.1	297.6
72.5°	319.9	310.1	240.6	165.9	154.1	165.9	243.2	303.5	306.1	281.2	250.4
75°	264.2	257.0	196.7	133.1	123.9	132.4	198.0	251.7	251.7	228.1	203.9
77.5°	210.4	205.2	150.8	102.3	95.7	101.0	151.4	199.3	198.0	179.6	160.6
80°	157.3	153.4	108.2	74.1	69.5	72.1	108.2	147.5	147.5	134.4	111.4
82.5°	112.8	108.2	71.5	48.5	45.9	47.2	70.1	102.9	104.9	95.1	75.4
85°	74.7	64.2	38.7	26.9	24.9	25.6	36.7	59.7	65.6	55.1	39.3
87.5°	32.8	21.6	9.8	3.9	2.0	2.6	7.9	19.0	24.9	16.4	5.2
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°	1221.9	1221.9	1221.9	1221.9	1221.9	1221.9
2.5°	1225.9	1215.4	1219.3	1221.9	1219.3	1231.1
5°	1224.6	1220.0	1219.3	1222.6	1217.3	1229.1
7.5°	1222.6	1220.0	1219.3	1220.6	1214.1	1225.2
10°	1218.0	1214.1	1215.4	1217.3	1208.8	1219.3
12.5°	1209.5	1205.5	1206.2	1212.8	1201.0	1210.1
15°	1195.1	1190.5	1195.1	1202.3	1191.8	1199.6
17.5°	1176.0	1168.8	1176.7	1187.8	1180.0	1187.2
20°	1151.8	1140.6	1149.2	1169.5	1162.3	1171.5
22.5°	1122.3	1108.5	1117.0	1146.5	1144.6	1154.4
25°	1088.9	1072.5	1084.3	1120.3	1124.3	1133.4
27.5°	1051.5	1033.1	1048.9	1091.5	1100.7	1111.1
30°	1010.8	991.2	1009.5	1059.4	1073.1	1084.3
32.5°	968.9	947.3	968.2	1023.3	1043.0	1057.4
35°	925.0	902.7	926.3	985.9	1009.5	1024.0
37.5°	877.8	856.1	881.7	946.6	974.8	989.2
40°	829.3	805.0	833.8	900.1	937.4	954.5
42.5°	779.4	749.3	784.7	856.1	896.8	913.8
45°	723.7	681.8	729.6	809.6	852.2	871.2
47.5°	668.0	626.0	674.6	759.8	805.7	822.7
50°	614.2	578.2	616.9	705.4	758.5	780.1
52.5°	565.1	535.6	568.4	652.3	710.0	731.6
55°	519.2	496.2	523.1	599.8	658.8	683.7
57.5°	475.9	461.5	479.9	550.0	611.6	635.2
60°	435.3	425.4	438.6	500.8	555.9	584.7
62.5°	395.3	390.0	399.9	449.0	504.1	534.3
65°	356.6	355.3	360.5	403.8	449.7	482.5
67.5°	317.9	317.3	320.6	356.0	396.6	428.7
70°	279.3	283.2	281.2	304.2	343.5	375.0
72.5°	239.9	245.8	242.6	257.0	295.0	319.9
75°	196.0	203.9	197.3	213.7	237.3	264.2
77.5°	150.8	159.3	151.4	165.9	191.4	210.4
80°	108.2	116.0	109.5	120.6	142.9	157.3
82.5°	68.2	74.1	68.8	80.0	102.3	112.8
85°	30.2	33.4	34.7	43.3	62.9	74.7
87.5°	1.3	0.7	1.3	8.5	22.3	32.8
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)