

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: P520768

Luminaire Tested: **8WSLA-50-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: P520768  
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-L950-UNV-U  
Description: 8 FOOT, 1000 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**

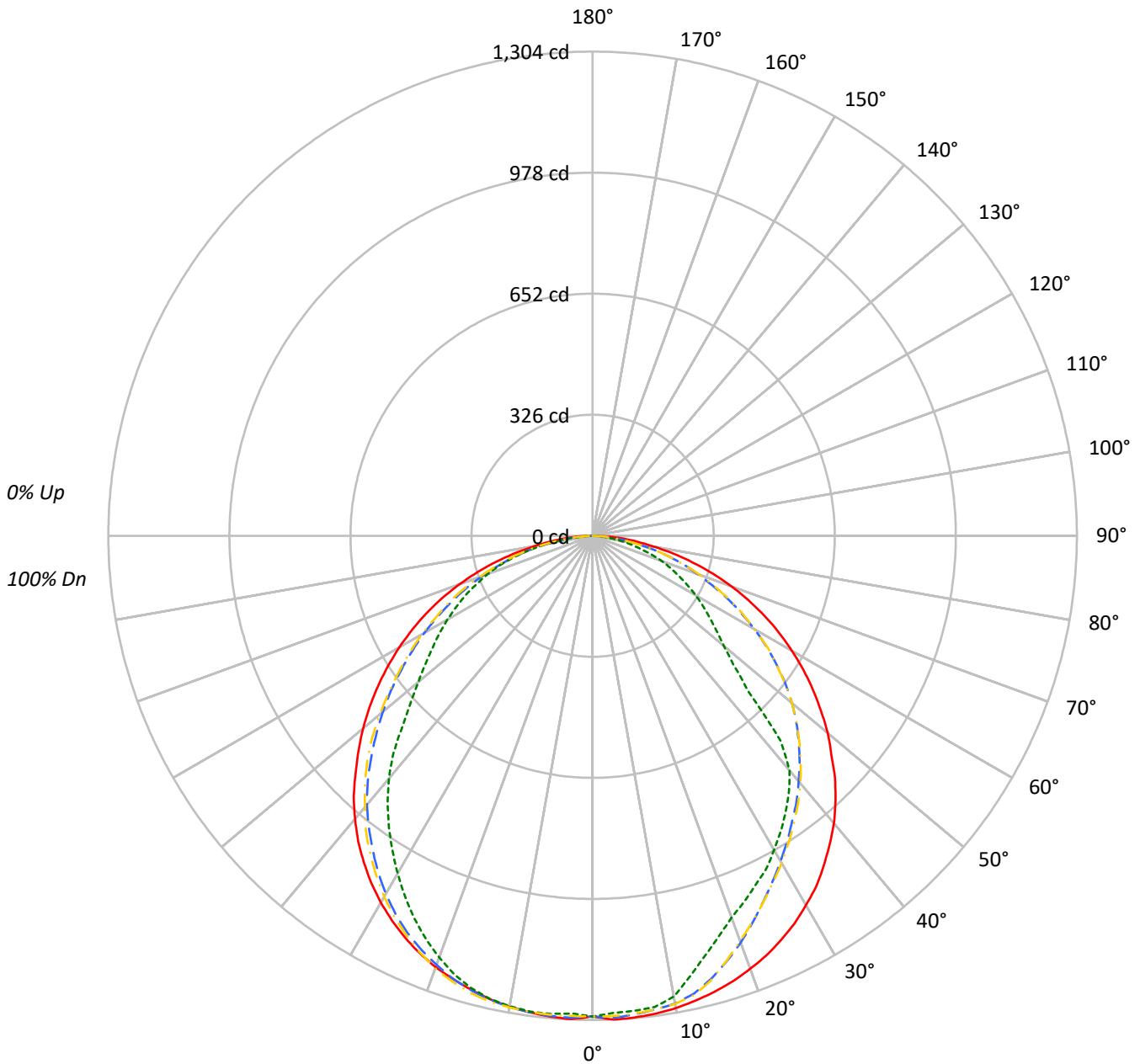
Lumens per Lamp: N/A  
Luminaire Lumens: 3473.0 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	3484	3484	3484	3484
5°	3518	3469	3512	3491
10°	3530	3443	3521	3515
15°	3541	3260	3525	3514
20°	3554	3133	3540	3461
25°	3566	3081	3547	3374
30°	3570	3036	3544	3263
35°	3564	2978	3528	3142
40°	3552	2898	3496	2996
45°	3513	2252	3433	2749
50°	3460	1928	3376	2565
55°	3399	1805	3311	2467
60°	3334	1723	3233	2426
65°	3255	1632	3144	2397
70°	3126	1552	2995	2360
75°	2910	1365	2773	2246
80°	2583	1141	2422	1905
85°	2445	815	2146	1093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.0	3.5
10°-20°	350.9	10.1
20°-30°	524.3	15.1
30°-40°	624.1	18.0
40°-50°	623.8	18.0
50°-60°	536.8	15.5
60°-70°	404.0	11.6
70°-80°	230.2	6.6
80°-90°	56.0	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°	998.1	28.7
0°-40°	1622.2	46.7
0°-60°	2782.8	80.1
0°-90°	3473.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3473.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1295	1295	1295	1295	1295	
5°	1302	1284	1300	1292	1302	124
15°	1271	1170	1265	1261	1271	359
25°	1201	1038	1195	1136	1201	554
35°	1085	906	1074	956	1085	679
45°	923	592	902	722	923	711
55°	724	385	706	526	724	648
65°	511	256	494	376	511	505
75°	280	131	267	216	280	296
85°	79	26	70	35	79	86
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°	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1304.3	1292.5	1299.5	1297.4	1286.3	1290.5	1294.6	1290.5	1303.0	1291.8	1299.5
5°	1302.3	1289.8	1293.9	1289.8	1284.2	1285.6	1291.8	1287.7	1300.2	1288.4	1298.1
7.5°	1298.1	1282.8	1287.0	1284.9	1280.0	1280.7	1287.0	1283.5	1294.6	1283.5	1294.6
10°	1291.8	1275.9	1279.3	1270.3	1259.9	1267.5	1280.0	1276.6	1288.4	1275.9	1288.4
12.5°	1282.1	1266.1	1262.7	1232.8	1214.1	1228.6	1266.8	1266.8	1278.0	1266.1	1279.3
15°	1271.0	1253.6	1234.9	1189.7	1170.3	1184.9	1237.7	1255.7	1265.4	1253.6	1266.8
17.5°	1257.8	1237.7	1201.6	1148.8	1130.7	1145.3	1199.5	1239.1	1251.6	1239.1	1250.9
20°	1241.1	1217.5	1166.1	1105.7	1093.9	1107.1	1161.3	1218.9	1236.3	1221.0	1229.3
22.5°	1223.1	1194.6	1126.5	1072.4	1066.8	1075.1	1124.5	1193.9	1216.8	1200.9	1206.4
25°	1200.9	1167.5	1087.0	1041.8	1037.6	1042.5	1088.3	1164.7	1194.6	1177.9	1180.0
27.5°	1177.2	1141.1	1049.4	1016.1	1011.9	1014.0	1052.2	1132.1	1168.9	1152.2	1148.8
30°	1148.8	1109.9	1011.9	981.4	977.2	984.9	1017.5	1098.8	1140.4	1123.8	1113.3
32.5°	1120.3	1075.8	975.1	951.5	943.2	950.1	981.4	1064.0	1109.2	1091.8	1074.5
35°	1084.9	1039.7	936.9	913.3	906.4	914.0	945.3	1027.9	1073.8	1056.4	1032.8
37.5°	1048.1	1001.5	902.2	880.7	868.2	877.2	908.5	990.4	1036.9	1018.9	989.7
40°	1011.2	961.2	863.3	841.1	825.1	838.3	870.3	950.8	995.3	978.6	945.3
42.5°	968.2	921.0	825.1	793.9	748.7	791.1	829.3	911.2	952.2	936.2	896.0
45°	923.0	877.9	784.8	709.1	591.7	716.1	787.6	869.6	902.2	886.9	843.2
47.5°	871.6	833.4	743.9	628.6	514.7	635.5	745.2	830.0	855.0	838.3	789.7
50°	826.5	789.0	700.8	560.5	460.5	568.1	700.1	785.5	806.4	791.1	736.9
52.5°	775.1	742.5	654.3	500.1	420.2	507.7	652.9	739.7	756.4	738.3	684.1
55°	724.4	695.2	604.9	446.6	384.8	453.5	603.6	692.5	705.7	684.8	628.6
57.5°	673.0	646.6	554.2	398.7	352.1	406.3	557.7	643.8	652.9	626.5	575.1
60°	619.5	597.3	502.8	356.3	320.2	362.5	501.5	595.2	600.8	572.3	523.0
62.5°	566.0	545.9	451.4	317.4	287.5	321.6	454.9	543.8	547.3	520.2	469.5
65°	511.2	492.4	401.4	276.4	256.3	283.4	404.9	490.3	493.8	463.3	417.4
67.5°	454.2	438.9	348.0	245.2	226.4	247.3	354.9	436.2	438.3	408.4	366.7
70°	397.3	384.1	300.7	211.1	197.2	211.8	305.6	376.4	380.6	348.7	315.3
72.5°	338.9	328.5	254.9	175.7	163.2	175.7	257.7	321.6	324.3	298.0	265.3
75°	279.9	272.3	208.4	141.0	131.3	140.3	209.8	266.7	266.7	241.7	216.0
77.5°	222.9	217.4	159.7	108.3	101.4	107.0	160.4	211.1	209.8	190.3	170.2
80°	166.7	162.5	114.6	78.5	73.6	76.4	114.6	156.3	156.3	142.4	118.1
82.5°	119.5	114.6	75.7	51.4	48.6	50.0	74.3	109.0	111.1	100.7	79.9
85°	79.2	68.1	41.0	28.5	26.4	27.1	38.9	63.2	69.5	58.3	41.7
87.5°	34.7	22.9	10.4	4.2	2.1	2.8	8.3	20.1	26.4	17.4	5.6
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°	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1298.8	1287.7	1291.8	1294.6	1291.8	1304.3
5°	1297.4	1292.5	1291.8	1295.3	1289.8	1302.3
7.5°	1295.3	1292.5	1291.8	1293.2	1286.3	1298.1
10°	1290.5	1286.3	1287.7	1289.8	1280.7	1291.8
12.5°	1281.4	1277.3	1278.0	1284.9	1272.4	1282.1
15°	1266.1	1261.3	1266.1	1273.8	1262.7	1271.0
17.5°	1246.0	1238.4	1246.7	1258.5	1250.2	1257.8
20°	1220.3	1208.5	1217.5	1239.1	1231.4	1241.1
22.5°	1189.0	1174.5	1183.5	1214.7	1212.7	1223.1
25°	1153.6	1136.3	1148.8	1187.0	1191.1	1200.9
27.5°	1114.0	1094.6	1111.3	1156.4	1166.1	1177.2
30°	1071.0	1050.1	1069.6	1122.4	1137.0	1148.8
32.5°	1026.5	1003.6	1025.8	1084.2	1105.0	1120.3
35°	980.0	956.4	981.4	1044.6	1069.6	1084.9
37.5°	930.0	907.1	934.2	1002.9	1032.8	1048.1
40°	878.6	852.9	883.5	953.6	993.2	1011.2
42.5°	825.8	793.9	831.4	907.1	950.1	968.2
45°	766.8	722.3	773.0	857.8	902.9	923.0
47.5°	707.7	663.3	714.7	805.0	853.6	871.6
50°	650.8	612.6	653.6	747.3	803.6	826.5
52.5°	598.7	567.4	602.2	691.1	752.2	775.1
55°	550.1	525.8	554.2	635.5	698.0	724.4
57.5°	504.2	489.0	508.4	582.7	648.0	673.0
60°	461.2	450.8	464.6	530.6	589.0	619.5
62.5°	418.8	413.3	423.7	475.8	534.1	566.0
65°	377.8	376.4	382.0	427.8	476.5	511.2
67.5°	336.9	336.2	339.6	377.1	420.2	454.2
70°	295.9	300.0	298.0	322.3	363.9	397.3
72.5°	254.2	260.5	257.0	272.3	312.5	338.9
75°	207.7	216.0	209.1	226.4	251.4	279.9
77.5°	159.7	168.8	160.4	175.7	202.8	222.9
80°	114.6	122.9	116.0	127.8	151.4	166.7
82.5°	72.2	78.5	72.9	84.7	108.3	119.5
85°	31.9	35.4	36.8	45.8	66.7	79.2
87.5°	1.4	0.7	1.4	9.0	23.6	34.7
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)