

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: P520762

Luminaire Tested: **8WSLA-50-L935-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: P520762
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-L935-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

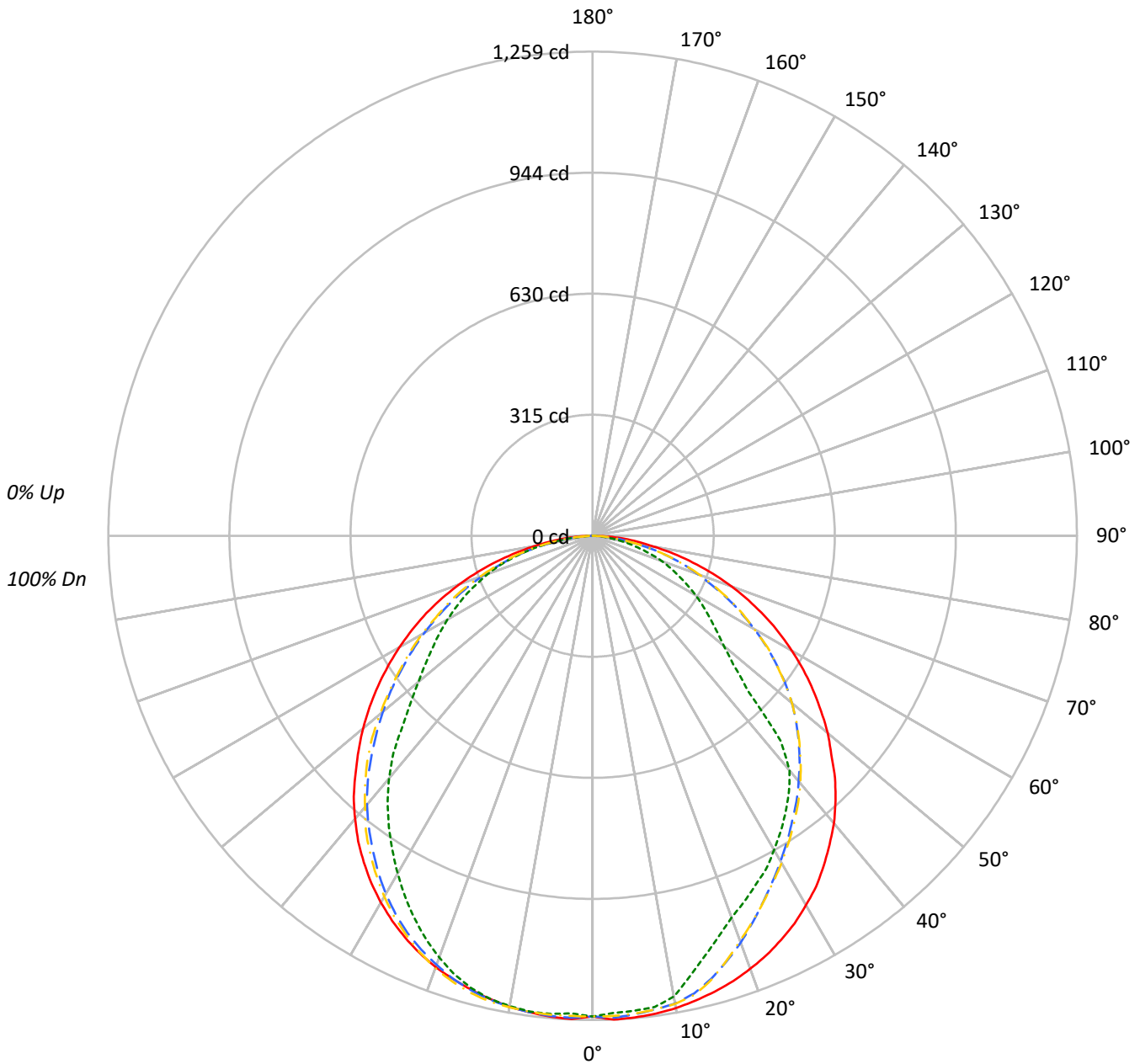
Lumens per Lamp: N/A
Luminaire Lumens: 3353.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 30.5
Input Voltage (V): NR
Input Current (A_{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°	3363	3363	3363	3363
5°	3396	3349	3391	3371
10°	3408	3324	3399	3393
15°	3419	3148	3404	3392
20°	3432	3024	3418	3341
25°	3442	2975	3424	3257
30°	3446	2932	3421	3150
35°	3441	2875	3406	3033
40°	3430	2798	3375	2892
45°	3391	2174	3315	2654
50°	3340	1861	3259	2476
55°	3281	1743	3196	2381
60°	3219	1664	3122	2342
65°	3142	1575	3036	2314
70°	3017	1498	2891	2279
75°	2809	1317	2677	2168
80°	2493	1102	2338	1839
85°	2359	787	2072	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	3.5
10°-20°	338.7	10.1
20°-30°	506.2	15.1
30°-40°	602.5	18.0
40°-50°	602.2	18.0
50°-60°	518.2	15.5
60°-70°	390.0	11.6
70°-80°	222.3	6.6
80°-90°	54.1	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°	963.6	28.7
0°-40°	1566.1	46.7
0°-60°	2686.6	80.1
0°-90°	3353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3353.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1250	1250	1250	1250	1250	
5°	1257	1240	1255	1248	1257	120
15°	1227	1130	1222	1218	1227	347
25°	1159	1002	1153	1097	1159	535
35°	1047	875	1037	923	1047	655
45°	891	571	871	697	891	686
55°	699	372	681	508	699	625
65°	494	247	477	363	494	487
75°	270	127	258	208	270	286
85°	76	26	67	34	76	83
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°	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9
2.5°	1259.3	1247.9	1254.6	1252.6	1241.8	1245.9	1249.9	1245.9	1257.9	1247.2	1254.6
5°	1257.3	1245.2	1249.2	1245.2	1239.8	1241.2	1247.2	1243.2	1255.3	1243.9	1253.2
7.5°	1253.2	1238.5	1242.5	1240.5	1235.8	1236.5	1242.5	1239.2	1249.9	1239.2	1249.9
10°	1247.2	1231.8	1235.1	1226.4	1216.4	1223.7	1235.8	1232.5	1243.9	1231.8	1243.9
12.5°	1237.8	1222.4	1219.0	1190.2	1172.1	1186.2	1223.1	1223.1	1233.8	1222.4	1235.1
15°	1227.1	1210.3	1192.2	1148.6	1129.9	1143.9	1194.9	1212.3	1221.7	1210.3	1223.1
17.5°	1214.3	1194.9	1160.0	1109.1	1091.6	1105.7	1158.0	1196.2	1208.3	1196.2	1207.6
20°	1198.3	1175.5	1125.8	1067.5	1056.1	1068.8	1121.1	1176.8	1193.6	1178.8	1186.9
22.5°	1180.8	1153.3	1087.6	1035.3	1030.0	1038.0	1085.6	1152.7	1174.8	1159.4	1164.7
25°	1159.4	1127.2	1049.4	1005.8	1001.8	1006.5	1050.7	1124.5	1153.3	1137.2	1139.2
27.5°	1136.6	1101.7	1013.2	981.0	977.0	979.0	1015.9	1093.0	1128.5	1112.4	1109.1
30°	1109.1	1071.5	977.0	947.5	943.5	950.8	982.3	1060.8	1101.0	1084.9	1074.9
32.5°	1081.6	1038.7	941.4	918.6	910.6	917.3	947.5	1027.3	1070.9	1054.1	1037.3
35°	1047.4	1003.8	904.6	881.8	875.1	882.4	912.6	992.4	1036.7	1019.9	997.1
37.5°	1011.8	966.9	871.0	850.2	838.2	846.9	877.1	956.2	1001.1	983.7	955.5
40°	976.3	928.0	833.5	812.0	796.6	809.3	840.2	918.0	960.9	944.8	912.6
42.5°	934.7	889.1	796.6	766.4	722.8	763.7	800.6	879.7	919.3	903.9	865.0
45°	891.1	847.6	757.7	684.6	571.3	691.3	760.4	839.5	871.0	856.3	814.0
47.5°	841.5	804.6	718.1	606.8	496.9	613.5	719.5	801.3	825.4	809.3	762.4
50°	797.9	761.7	676.6	541.1	444.6	548.5	675.9	758.4	778.5	763.7	711.4
52.5°	748.3	716.8	631.6	482.8	405.7	490.2	630.3	714.1	730.2	712.8	660.5
55°	699.4	671.2	584.0	431.2	371.5	437.9	582.7	668.5	681.3	661.2	606.8
57.5°	649.8	624.3	535.1	384.9	340.0	392.3	538.4	621.6	630.3	604.8	555.2
60°	598.1	576.7	485.5	344.0	309.1	350.0	484.1	574.7	580.0	552.5	504.9
62.5°	546.5	527.0	435.9	306.4	277.6	310.5	439.2	525.0	528.4	502.2	453.3
65°	493.5	475.4	387.6	266.9	247.4	273.6	390.9	473.4	476.8	447.3	403.0
67.5°	438.5	423.8	335.9	236.7	218.6	238.7	342.6	421.1	423.1	394.3	354.0
70°	383.5	370.8	290.3	203.8	190.4	204.5	295.0	363.4	367.5	336.6	304.4
72.5°	327.2	317.2	246.1	169.6	157.6	169.6	248.8	310.5	313.1	287.7	256.1
75°	270.2	262.9	201.2	136.1	126.7	135.4	202.5	257.5	257.5	233.3	208.5
77.5°	215.2	209.9	154.2	104.6	97.9	103.3	154.9	203.8	202.5	183.7	164.3
80°	160.9	156.9	110.6	75.8	71.1	73.8	110.6	150.9	150.9	137.5	114.0
82.5°	115.3	110.6	73.1	49.6	46.9	48.3	71.7	105.3	107.3	97.2	77.1
85°	76.4	65.7	39.6	27.5	25.5	26.2	37.6	61.0	67.1	56.3	40.2
87.5°	33.5	22.1	10.1	4.0	2.0	2.7	8.0	19.4	25.5	16.8	5.4
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°	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9
2.5°	1253.9	1243.2	1247.2	1249.9	1247.2	1259.3
5°	1252.6	1247.9	1247.2	1250.6	1245.2	1257.3
7.5°	1250.6	1247.9	1247.2	1248.5	1241.8	1253.2
10°	1245.9	1241.8	1243.2	1245.2	1236.5	1247.2
12.5°	1237.1	1233.1	1233.8	1240.5	1228.4	1237.8
15°	1222.4	1217.7	1222.4	1229.8	1219.0	1227.1
17.5°	1202.9	1195.6	1203.6	1215.0	1207.0	1214.3
20°	1178.1	1166.7	1175.5	1196.2	1188.9	1198.3
22.5°	1148.0	1133.9	1142.6	1172.8	1170.8	1180.8
25°	1113.8	1097.0	1109.1	1146.0	1150.0	1159.4
27.5°	1075.5	1056.8	1072.9	1116.5	1125.8	1136.6
30°	1034.0	1013.9	1032.6	1083.6	1097.7	1109.1
32.5°	991.1	968.9	990.4	1046.7	1066.8	1081.6
35°	946.1	923.3	947.5	1008.5	1032.6	1047.4
37.5°	897.9	875.7	901.9	968.3	997.1	1011.8
40°	848.2	823.4	852.9	920.7	958.9	976.3
42.5°	797.3	766.4	802.6	875.7	917.3	934.7
45°	740.3	697.4	746.3	828.1	871.7	891.1
47.5°	683.3	640.4	690.0	777.2	824.1	841.5
50°	628.3	591.4	631.0	721.5	775.8	797.9
52.5°	578.0	547.8	581.4	667.2	726.2	748.3
55°	531.1	507.6	535.1	613.5	673.9	699.4
57.5°	486.8	472.1	490.8	562.6	625.6	649.8
60°	445.2	435.2	448.6	512.3	568.6	598.1
62.5°	404.3	399.0	409.0	459.3	515.6	546.5
65°	364.8	363.4	368.8	413.1	460.0	493.5
67.5°	325.2	324.5	327.9	364.1	405.7	438.5
70°	285.7	289.7	287.7	311.1	351.4	383.5
72.5°	245.4	251.5	248.1	262.9	301.7	327.2
75°	200.5	208.5	201.8	218.6	242.7	270.2
77.5°	154.2	162.9	154.9	169.6	195.8	215.2
80°	110.6	118.7	112.0	123.4	146.2	160.9
82.5°	69.7	75.8	70.4	81.8	104.6	115.3
85°	30.8	34.2	35.5	44.3	64.4	76.4
87.5°	1.3	0.7	1.3	8.7	22.8	33.5
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)