

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: P520763

Luminaire Tested: **8WSLA-50-L935-UPL15-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: P520763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 8WSLA-50-L935-UPL15-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

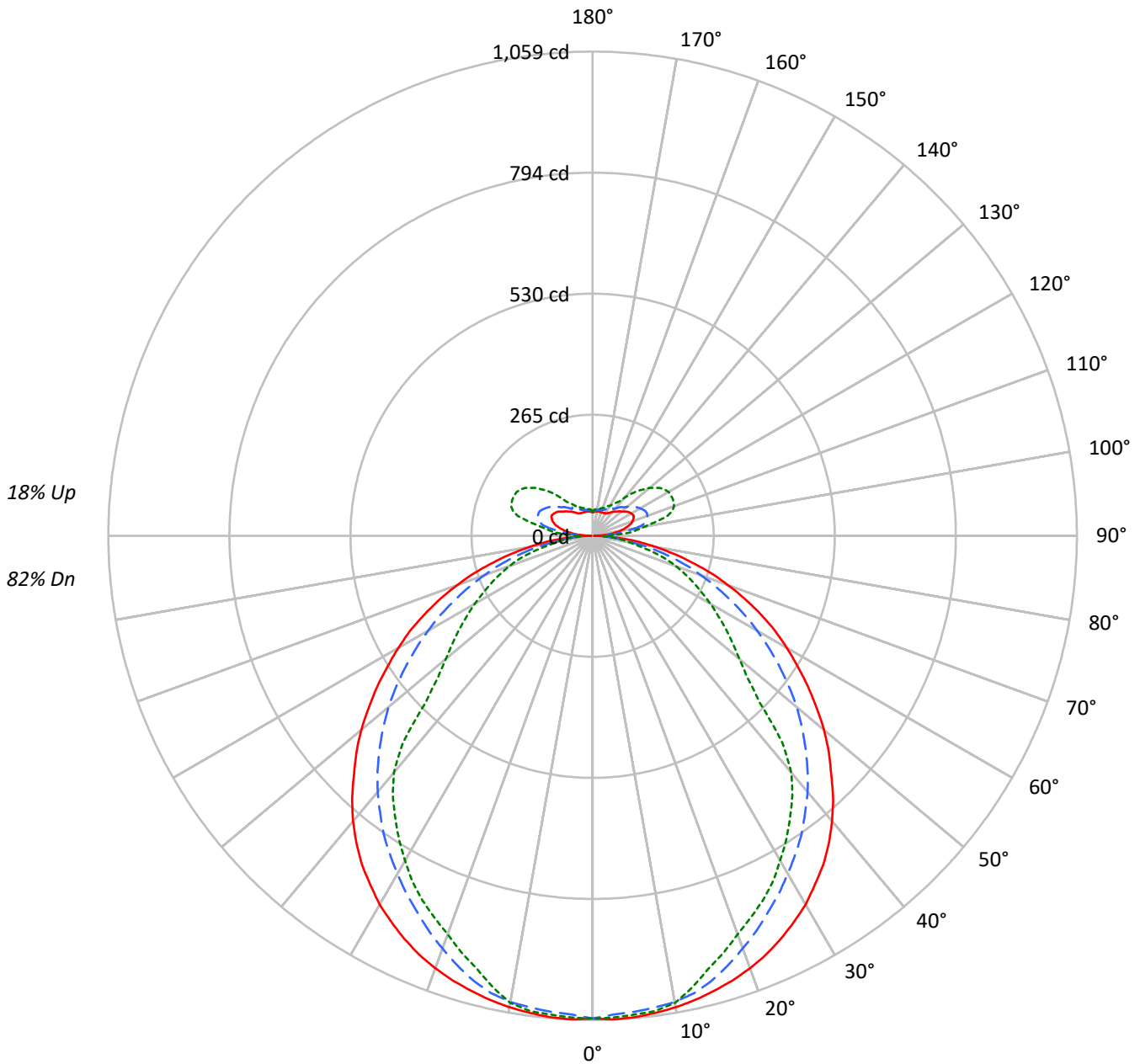
Lumens per Lamp: N/A
Luminaire Lumens: 3419.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 30.5
Input Voltage (V): NR
Input Current (Ain): 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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82																			
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	69																			
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	58																			
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49																			
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	42																			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36																			
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	32																			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28																			
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	25																			
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2841	2841	2841
5°	2855	2823	2840
10°	2861	2829	2835
15°	2869	2807	2729
20°	2882	2750	2655
25°	2890	2696	2613
30°	2894	2651	2548
35°	2888	2617	2473
40°	2862	2569	2373
45°	2807	2506	1968
50°	2766	2439	1752
55°	2698	2341	1668
60°	2639	2236	1602
65°	2577	2113	1554
70°	2477	1980	1525
75°	2337	1814	1403
80°	2140	1526	1244
85°	1917	1321	1257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	2.9
10°-20°	284.2	8.3
20°-30°	424.2	12.4
30°-40°	505.4	14.8
40°-50°	502.7	14.7
50°-60°	430.8	12.6
60°-70°	324.5	9.5
70°-80°	187.9	5.5
80°-90°	56.5	1.7
90°-100°	60.6	1.8
100°-110°	124.5	3.6
110°-120°	131.7	3.9
120°-130°	109.8	3.2
130°-140°	76.7	2.2
140°-150°	47.8	1.4
150°-160°	29.6	0.9
160°-170°	16.7	0.5
170°-180°	5.4	0.2
0°-30°	808.4	23.6
0°-40°	1313.8	38.4
0°-60°	2247.4	65.7
0°-90°	2816.2	82.4
90°-120°	316.8	9.3
90°-150°	551.1	16.1
90°-180°	603.0	17.6
0°-180°	3419.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1057	1054	1045	1052	1051	101
15°	1030	1029	1008	990	980	291
25°	973	959	908	886	880	449
35°	879	856	797	766	753	549
45°	738	720	658	593	517	570
55°	575	566	499	396	356	514
65°	405	395	332	258	244	400
75°	225	217	174	139	135	238
85°	62	55	43	41	41	66
90°	3	15	26	32	34	6
95°	34	46	52	77	84	33
105°	80	84	120	161	170	83
115°	100	85	127	176	193	97
125°	92	81	110	162	182	82
135°	75	81	89	120	138	58
145°	61	71	77	82	88	39
155°	56	59	63	68	70	26
165°	55	57	59	61	61	15
175°	54	55	56	57	58	5
180°	52	52	52	52	52	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.7	1055.7	1055.7	1055.7	1055.7
2.5°	1058.9	1056.8	1048.2	1056.8	1054.6
5°	1056.8	1053.6	1045.0	1052.5	1051.4
7.5°	1052.5	1050.3	1040.7	1049.3	1048.2
10°	1047.1	1043.9	1035.3	1041.8	1037.5
12.5°	1039.6	1037.5	1024.6	1019.3	1010.7
15°	1030.0	1028.9	1007.5	990.4	979.7
17.5°	1019.3	1015.0	985.0	964.7	955.0
20°	1006.4	1000.0	960.4	936.8	927.2
22.5°	991.5	981.8	935.8	913.3	903.7
25°	973.2	959.3	907.9	885.5	880.1
27.5°	952.9	936.8	882.2	859.8	853.3
30°	931.5	911.2	853.3	831.9	820.1
32.5°	904.7	885.5	825.5	800.9	788.0
35°	879.0	855.5	796.6	765.5	752.7
37.5°	848.0	824.4	763.4	732.3	717.4
40°	814.8	791.2	731.3	694.9	675.6
42.5°	778.4	757.0	695.9	652.0	614.6
45°	737.7	719.5	658.5	593.2	517.1
47.5°	700.2	683.1	621.0	536.4	458.3
50°	660.6	644.6	582.5	482.9	418.6
52.5°	616.7	604.9	540.7	436.8	385.4
55°	575.0	566.4	498.9	396.2	355.5
57.5°	531.1	522.5	457.2	357.6	325.5
60°	490.4	481.8	415.4	323.3	297.6
62.5°	449.7	437.9	374.7	290.2	268.7
65°	404.7	395.1	331.9	258.0	244.1
67.5°	359.7	351.2	292.3	228.1	218.4
70°	314.8	307.3	251.6	199.1	193.8
72.5°	270.9	261.2	215.2	170.2	168.1
75°	224.8	217.3	174.5	139.2	134.9
77.5°	180.9	174.5	137.0	106.0	102.8
80°	138.1	131.7	98.5	77.1	80.3
82.5°	101.7	93.1	66.4	60.0	63.2
85°	62.1	54.6	42.8	40.7	40.7
87.5°	21.4	20.3	19.3	22.5	23.6
90°	3.2	15.0	25.7	32.1	34.3
92.5°	18.2	26.8	35.3	41.8	43.9
95°	34.3	46.0	52.5	77.1	83.5
97.5°	47.1	61.0	68.5	91.0	97.4
100°	60.0	72.8	96.4	108.1	115.6
102.5°	70.7	80.3	113.5	137.0	141.3
105°	80.3	83.5	119.9	160.6	170.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	96.4	85.7	128.5	174.5	191.7
115°	99.6	84.6	127.4	175.6	192.7
117.5°	99.6	84.6	124.2	175.6	192.7
120°	97.4	85.7	119.9	173.5	191.7
122.5°	95.3	83.5	115.6	169.2	187.4
125°	92.1	81.4	110.3	161.7	182.0
127.5°	86.7	83.5	104.9	152.0	172.4
130°	82.4	84.6	98.5	142.4	162.7
132.5°	79.2	82.4	92.1	131.7	149.9
135°	74.9	81.4	88.9	119.9	138.1
137.5°	71.7	78.2	83.5	109.2	124.2
140°	68.5	76.0	78.2	95.3	108.1
142.5°	64.2	72.8	73.9	88.9	94.2
145°	61.0	70.7	77.1	82.4	87.8
147.5°	57.8	66.4	74.9	76.0	81.4
150°	56.7	62.1	71.7	72.8	74.9
152.5°	55.7	60.0	66.4	72.8	73.9
155°	55.7	58.9	63.2	68.5	69.6
157.5°	54.6	58.9	61.0	65.3	66.4
160°	54.6	57.8	60.0	63.2	64.2
162.5°	54.6	57.8	58.9	62.1	63.2
165°	54.6	56.7	58.9	61.0	61.0
167.5°	54.6	56.7	57.8	60.0	60.0
170°	54.6	55.7	57.8	58.9	58.9
172.5°	53.5	55.7	56.7	58.9	58.9
175°	53.5	54.6	55.7	56.7	57.8
177.5°	51.4	54.6	55.7	56.7	55.7
180°	52.5	52.5	52.5	52.5	52.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	87.8	84.6	124.2	169.2	183.1
110°	93.1	85.7	127.4	172.4	189.5



(END OF REPORT)