

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: P520766

Luminaire Tested: **8WSLA-50-L940-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: P520766
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-L940-UPL15-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

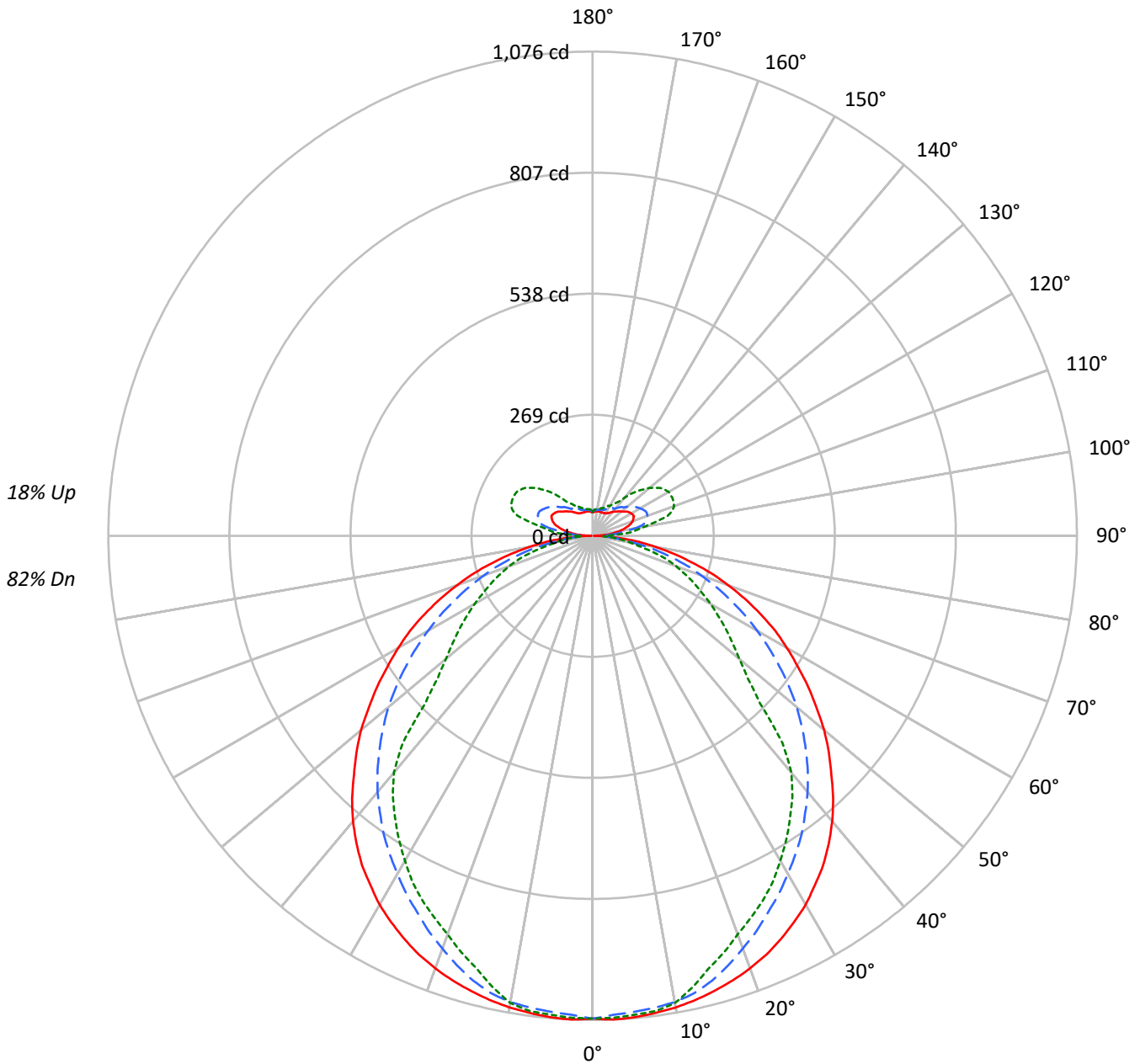
Lumens per Lamp: N/A
Luminaire Lumens: 3475.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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

TEST NUMBER: P520766

CATALOG NUMBER: 8WSLA-50-L940-UPL15-UNV-U

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°	2887	2887	2887
5°	2901	2869	2887
10°	2908	2875	2881
15°	2917	2853	2774
20°	2929	2795	2699
25°	2937	2740	2656
30°	2942	2695	2590
35°	2935	2660	2513
40°	2909	2611	2412
45°	2853	2547	2000
50°	2811	2478	1781
55°	2742	2379	1695
60°	2682	2272	1628
65°	2619	2148	1580
70°	2517	2012	1550
75°	2376	1844	1425
80°	2176	1551	1265
85°	1948	1343	1278



TEST NUMBER: P520766

CATALOG NUMBER: 8WSLA-50-L940-UPL15-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	2.9
10°-20°	288.9	8.3
20°-30°	431.1	12.4
30°-40°	513.7	14.8
40°-50°	510.9	14.7
50°-60°	437.9	12.6
60°-70°	329.8	9.5
70°-80°	191.0	5.5
80°-90°	57.4	1.7
90°-100°	61.6	1.8
100°-110°	126.6	3.6
110°-120°	133.8	3.9
120°-130°	111.6	3.2
130°-140°	78.0	2.2
140°-150°	48.5	1.4
150°-160°	30.1	0.9
160°-170°	16.9	0.5
170°-180°	5.5	0.2
0°-30°	821.7	23.6
0°-40°	1335.3	38.4
0°-60°	2284.2	65.7
0°-90°	2862.4	82.4
90°-120°	322.0	9.3
90°-150°	560.1	16.1
90°-180°	613.0	17.6
0°-180°	3475.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1073	1073	1073	1073	1073	
5°	1074	1071	1062	1070	1069	102
15°	1047	1046	1024	1007	996	296
25°	989	975	923	900	894	456
35°	893	870	810	778	765	558
45°	750	731	669	603	526	580
55°	584	576	507	403	361	522
65°	411	402	337	262	248	407
75°	228	221	177	142	137	242
85°	63	56	44	41	41	67
90°	3	15	26	33	35	6
95°	35	47	53	78	85	33
105°	82	85	122	163	173	85
115°	101	86	130	178	196	99
125°	94	83	112	164	185	83
135°	76	83	90	122	140	59
145°	62	72	78	84	89	39
155°	57	60	64	70	71	26
165°	56	58	60	62	62	16
175°	54	56	57	58	59	5
180°	53	53	53	53	53	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.0	1073.0	1073.0	1073.0	1073.0
2.5°	1076.2	1074.1	1065.4	1074.1	1071.9
5°	1074.1	1070.8	1062.1	1069.7	1068.6
7.5°	1069.7	1067.5	1057.7	1066.5	1065.4
10°	1064.3	1061.0	1052.3	1058.8	1054.5
12.5°	1056.7	1054.5	1041.4	1036.0	1027.3
15°	1046.9	1045.8	1024.0	1006.6	995.7
17.5°	1036.0	1031.6	1001.2	980.5	970.7
20°	1022.9	1016.4	976.1	952.2	942.4
22.5°	1007.7	997.9	951.1	928.3	918.5
25°	989.2	975.0	922.8	900.0	894.5
27.5°	968.5	952.2	896.7	873.8	867.3
30°	946.8	926.1	867.3	845.5	833.6
32.5°	919.5	900.0	839.0	814.0	800.9
35°	893.4	869.5	809.6	778.1	765.0
37.5°	861.9	837.9	775.9	744.3	729.1
40°	828.1	804.2	743.3	706.3	686.7
42.5°	791.1	769.4	707.3	662.7	624.6
45°	749.8	731.3	669.3	602.9	525.6
47.5°	711.7	694.3	631.2	545.2	465.8
50°	671.4	655.1	592.0	490.8	425.5
52.5°	626.8	614.8	549.6	444.0	391.8
55°	584.4	575.7	507.1	402.6	361.3
57.5°	539.8	531.1	464.7	363.5	330.8
60°	498.4	489.7	422.2	328.6	302.5
62.5°	457.1	445.1	380.9	294.9	273.1
65°	411.3	401.6	337.3	262.3	248.1
67.5°	365.6	356.9	297.1	231.8	222.0
70°	319.9	312.3	255.7	202.4	197.0
72.5°	275.3	265.5	218.7	173.0	170.9
75°	228.5	220.9	177.4	141.5	137.1
77.5°	183.9	177.4	139.3	107.7	104.5
80°	140.4	133.9	100.1	78.4	81.6
82.5°	103.4	94.7	67.5	60.9	64.2
85°	63.1	55.5	43.5	41.4	41.4
87.5°	21.8	20.7	19.6	22.9	23.9
90°	3.3	15.2	26.1	32.6	34.8
92.5°	18.5	27.2	35.9	42.4	44.6
95°	34.8	46.8	53.3	78.4	84.9
97.5°	47.9	62.0	69.6	92.5	99.0
100°	60.9	74.0	97.9	109.9	117.5
102.5°	71.8	81.6	115.4	139.3	143.6
105°	81.6	84.9	121.9	163.2	173.0



TEST NUMBER: P520766

CATALOG NUMBER: 8WSLA-50-L940-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.9	87.1	130.6	177.4	194.8
115°	101.2	86.0	129.5	178.5	195.9
117.5°	101.2	86.0	126.2	178.5	195.9
120°	99.0	87.1	121.9	176.3	194.8
122.5°	96.9	84.9	117.5	171.9	190.4
125°	93.6	82.7	112.1	164.3	185.0
127.5°	88.1	84.9	106.6	154.5	175.2
130°	83.8	86.0	100.1	144.7	165.4
132.5°	80.5	83.8	93.6	133.9	152.4
135°	76.2	82.7	90.3	121.9	140.4
137.5°	72.9	79.4	84.9	111.0	126.2
140°	69.6	77.3	79.4	96.9	109.9
142.5°	65.3	74.0	75.1	90.3	95.8
145°	62.0	71.8	78.4	83.8	89.2
147.5°	58.8	67.5	76.2	77.3	82.7
150°	57.7	63.1	72.9	74.0	76.2
152.5°	56.6	60.9	67.5	74.0	75.1
155°	56.6	59.9	64.2	69.6	70.7
157.5°	55.5	59.9	62.0	66.4	67.5
160°	55.5	58.8	60.9	64.2	65.3
162.5°	55.5	58.8	59.9	63.1	64.2
165°	55.5	57.7	59.9	62.0	62.0
167.5°	55.5	57.7	58.8	60.9	60.9
170°	55.5	56.6	58.8	59.9	59.9
172.5°	54.4	56.6	57.7	59.9	59.9
175°	54.4	55.5	56.6	57.7	58.8
177.5°	52.2	55.5	56.6	57.7	56.6
180°	53.3	53.3	53.3	53.3	53.3



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	89.2	86.0	126.2	171.9	186.1
110°	94.7	87.1	129.5	175.2	192.6



(END OF REPORT)