

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: P520671

Luminaire Tested: **8WSLA-125-L940-UPL8-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: P520671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 8WSLA-125-L940-UPL8-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

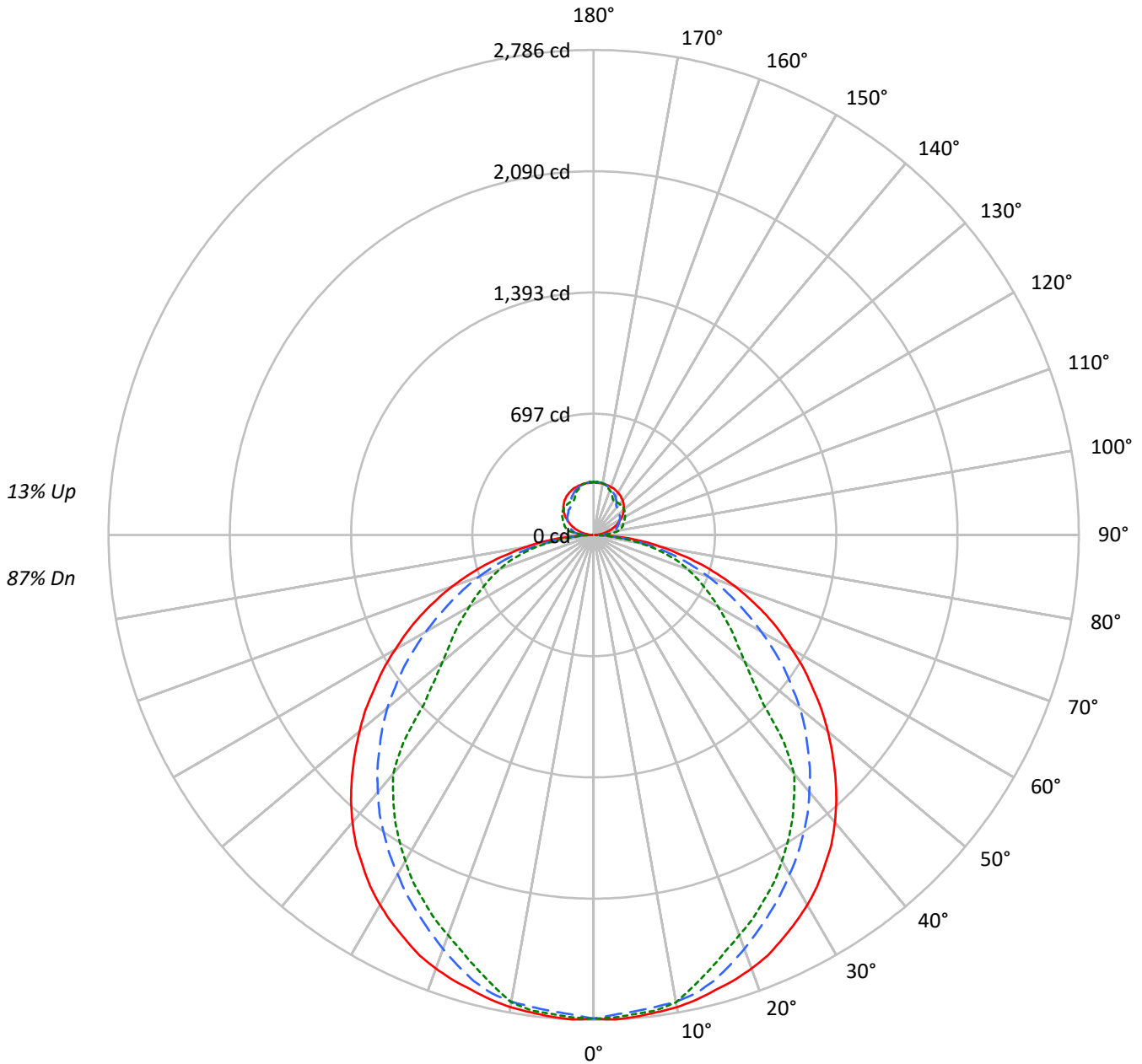
Lumens per Lamp: N/A
Luminaire Lumens: 8647.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 78.2
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7477	7477	7477
5°	7505	7419	7462
10°	7527	7439	7450
15°	7540	7395	7195
20°	7590	7247	7007
25°	7609	7110	6873
30°	7627	6994	6720
35°	7604	6895	6540
40°	7569	6769	6291
45°	7470	6618	5249
50°	7347	6477	4737
55°	7203	6265	4558
60°	7079	5982	4433
65°	6975	5727	4429
70°	6794	5504	4498
75°	6485	5237	4531
80°	6072	4708	4214
85°	5555	3331	2837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.0	3.0
10°-20°	747.8	8.6
20°-30°	1117.4	12.9
30°-40°	1333.8	15.4
40°-50°	1334.0	15.4
50°-60°	1154.5	13.4
60°-70°	886.1	10.2
70°-80°	543.0	6.3
80°-90°	152.9	1.8
90°-100°	86.4	1.0
100°-110°	137.1	1.6
110°-120°	160.3	1.9
120°-130°	173.1	2.0
130°-140°	170.6	2.0
140°-150°	150.9	1.7
150°-160°	124.2	1.4
160°-170°	83.1	1.0
170°-180°	28.9	0.3
0°-30°	2128.2	24.6
0°-40°	3462.1	40.0
0°-60°	5950.5	68.8
0°-90°	7532.5	87.1
90°-120°	383.8	4.4
90°-150°	878.3	10.2
90°-180°	1115.0	12.9
0°-180°	8647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2778	2778	2778	2778	2778	
5°	2778	2770	2746	2766	2762	264
15°	2706	2702	2655	2607	2583	766
25°	2563	2531	2395	2331	2315	1182
35°	2315	2255	2099	2023	1991	1450
45°	1963	1907	1739	1583	1379	1514
55°	1535	1499	1335	1067	972	1376
65°	1095	1055	900	724	696	1082
75°	624	592	504	436	436	658
85°	180	148	108	92	92	188
90°	8	28	44	56	60	13
95°	32	68	92	96	96	32
105°	92	96	136	160	168	96
115°	152	128	160	184	196	148
125°	204	164	184	212	220	182
135°	244	220	204	224	236	188
145°	272	260	228	224	232	170
155°	288	284	268	256	252	133
165°	296	300	292	292	292	84
175°	300	304	304	308	308	29
180°	304	304	304	304	304	



TEST NUMBER: P520671

CATALOG NUMBER: 8WSLA-125-L940-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2778.5	2778.5	2778.5	2778.5	2778.5
2.5°	2786.5	2778.5	2758.5	2778.5	2774.5
5°	2778.5	2770.5	2746.5	2766.5	2762.5
7.5°	2766.5	2758.5	2734.5	2758.5	2754.5
10°	2754.5	2746.5	2722.5	2738.5	2726.5
12.5°	2734.5	2726.5	2698.5	2678.5	2654.6
15°	2706.5	2702.5	2654.6	2606.6	2582.6
17.5°	2682.5	2670.5	2594.6	2538.6	2510.6
20°	2650.6	2630.6	2530.6	2466.7	2446.7
22.5°	2614.6	2582.6	2462.7	2402.7	2386.7
25°	2562.6	2530.6	2394.7	2330.7	2314.7
27.5°	2510.6	2470.7	2326.7	2262.8	2246.8
30°	2454.7	2398.7	2250.8	2190.8	2162.8
32.5°	2390.7	2334.7	2178.8	2110.8	2078.9
35°	2314.7	2254.8	2098.9	2022.9	1990.9
37.5°	2242.8	2178.8	2018.9	1934.9	1891.0
40°	2154.8	2090.9	1926.9	1835.0	1791.0
42.5°	2062.9	2002.9	1839.0	1727.1	1619.1
45°	1962.9	1907.0	1739.1	1583.1	1379.2
47.5°	1859.0	1811.0	1647.1	1435.2	1239.3
50°	1755.0	1707.1	1547.2	1295.3	1131.4
52.5°	1651.1	1611.1	1435.2	1179.4	1043.4
55°	1535.2	1499.2	1335.3	1067.4	971.5
57.5°	1431.2	1395.2	1219.3	975.5	895.5
60°	1315.3	1283.3	1111.4	883.5	823.6
62.5°	1207.3	1171.4	1003.5	803.6	759.6
65°	1095.4	1055.4	899.5	723.6	695.6
67.5°	979.5	939.5	799.6	651.6	635.7
70°	863.5	831.5	699.6	579.7	571.7
72.5°	743.6	707.6	599.7	511.7	511.7
75°	623.7	591.7	503.7	435.8	435.8
77.5°	499.7	483.7	403.8	355.8	359.8
80°	391.8	371.8	303.8	271.9	271.9
82.5°	287.8	263.9	203.9	179.9	187.9
85°	179.9	147.9	107.9	91.9	91.9
87.5°	56.0	44.0	32.0	36.0	36.0
90°	8.0	28.0	44.0	56.0	60.0
92.5°	20.0	52.0	64.0	76.0	80.0
95°	32.0	68.0	91.9	95.9	95.9
97.5°	44.0	76.0	111.9	127.9	127.9
100°	60.0	80.0	119.9	143.9	147.9
102.5°	76.0	88.0	127.9	151.9	159.9
105°	91.9	95.9	135.9	159.9	167.9



TEST NUMBER: P520671

CATALOG NUMBER: 8WSLA-125-L940-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.9	119.9	151.9	179.9	187.9
115°	151.9	127.9	159.9	183.9	195.9
117.5°	163.9	139.9	167.9	191.9	199.9
120°	175.9	147.9	171.9	199.9	207.9
122.5°	191.9	155.9	179.9	203.9	215.9
125°	203.9	163.9	183.9	211.9	219.9
127.5°	215.9	179.9	187.9	215.9	223.9
130°	223.9	195.9	191.9	219.9	227.9
132.5°	235.9	207.9	195.9	223.9	231.9
135°	243.9	219.9	203.9	223.9	235.9
137.5°	251.9	231.9	203.9	223.9	231.9
140°	259.9	243.9	207.9	223.9	231.9
142.5°	263.9	251.9	211.9	223.9	231.9
145°	271.9	259.9	227.9	223.9	231.9
147.5°	275.8	267.9	239.9	223.9	231.9
150°	279.8	275.8	251.9	227.9	227.9
152.5°	283.8	279.8	259.9	243.9	235.9
155°	287.8	283.8	267.9	255.9	251.9
157.5°	291.8	291.8	275.8	267.9	263.9
160°	291.8	295.8	283.8	275.8	271.9
162.5°	295.8	299.8	287.8	283.8	279.8
165°	295.8	299.8	291.8	291.8	291.8
167.5°	299.8	303.8	299.8	295.8	295.8
170°	299.8	303.8	299.8	299.8	299.8
172.5°	299.8	303.8	303.8	303.8	303.8
175°	299.8	303.8	303.8	307.8	307.8
177.5°	299.8	303.8	303.8	303.8	303.8
180°	303.8	303.8	303.8	303.8	303.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	107.9	103.9	139.9	167.9	175.9
110°	119.9	111.9	147.9	171.9	179.9



(END OF REPORT)