

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: P520670

Luminaire Tested: **8WSLA-125-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: P520670
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-125-L940-UPL15-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

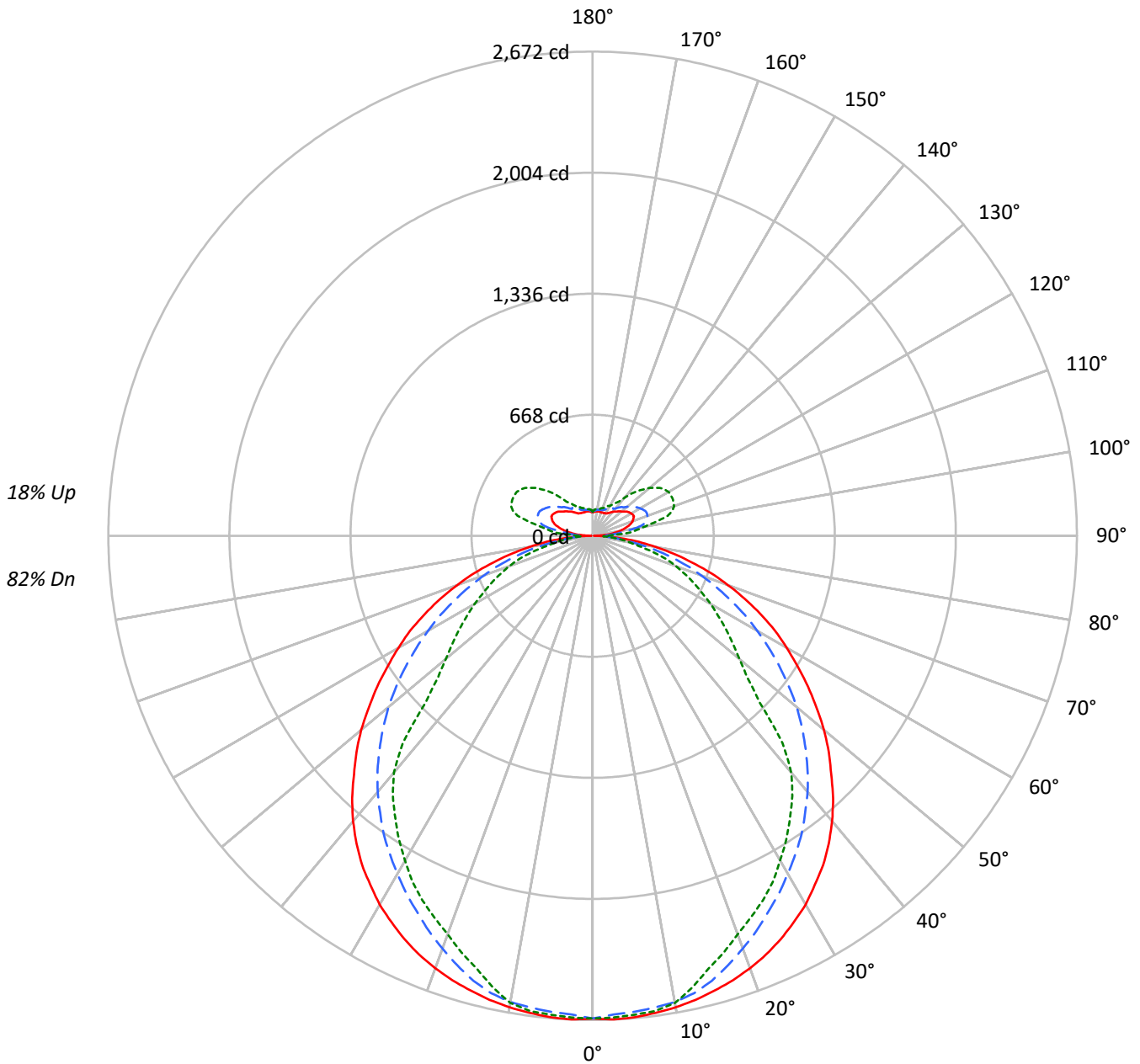
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8627.0 lumens
Efficiency: N/A
Efficacy: 110.3 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): 78.2
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	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°	7168	7168	7168
5°	7203	7123	7166
10°	7220	7138	7153
15°	7240	7082	6887
20°	7272	6940	6700
25°	7292	6802	6594
30°	7303	6691	6430
35°	7286	6603	6239
40°	7222	6482	5988
45°	7084	6323	4966
50°	6978	6153	4422
55°	6807	5906	4208
60°	6659	5641	4042
65°	6502	5333	3922
70°	6249	4995	3847
75°	5898	4579	3539
80°	5401	3851	3140
85°	4838	3338	3171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	2.9
10°-20°	717.1	8.3
20°-30°	1070.3	12.4
30°-40°	1275.2	14.8
40°-50°	1268.4	14.7
50°-60°	1087.1	12.6
60°-70°	818.7	9.5
70°-80°	474.2	5.5
80°-90°	142.5	1.7
90°-100°	153.0	1.8
100°-110°	314.2	3.6
110°-120°	332.2	3.9
120°-130°	277.1	3.2
130°-140°	193.6	2.2
140°-150°	120.5	1.4
150°-160°	74.7	0.9
160°-170°	42.1	0.5
170°-180°	13.6	0.2
0°-30°	2039.9	23.6
0°-40°	3315.1	38.4
0°-60°	5670.6	65.7
0°-90°	7106.1	82.4
90°-120°	799.4	9.3
90°-150°	1390.6	16.1
90°-180°	1521.0	17.6
0°-180°	8627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2664	2664	2664	2664	2664	
5°	2666	2658	2637	2656	2653	254
15°	2599	2596	2542	2499	2472	734
25°	2456	2421	2291	2234	2221	1132
35°	2218	2159	2010	1932	1899	1385
45°	1861	1816	1662	1497	1305	1439
55°	1451	1429	1259	1000	897	1297
65°	1021	997	838	651	616	1009
75°	567	548	440	351	340	601
85°	157	138	108	103	103	167
90°	8	38	65	81	86	16
95°	86	116	132	194	211	83
105°	203	211	303	405	430	210
115°	251	213	322	443	486	245
125°	232	205	278	408	459	206
135°	189	205	224	303	348	148
145°	154	178	194	208	222	98
155°	140	149	159	173	176	65
165°	138	143	149	154	154	39
175°	135	138	140	143	146	13
180°	132	132	132	132	132	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2663.8	2663.8	2663.8	2663.8	2663.8
2.5°	2671.9	2666.5	2644.9	2666.5	2661.1
5°	2666.5	2658.4	2636.8	2655.7	2653.0
7.5°	2655.7	2650.3	2626.0	2647.6	2644.9
10°	2642.2	2634.1	2612.4	2628.7	2617.9
12.5°	2623.3	2617.9	2585.4	2571.9	2550.3
15°	2598.9	2596.2	2542.2	2499.0	2472.0
17.5°	2571.9	2561.1	2485.5	2434.1	2409.8
20°	2539.5	2523.3	2423.3	2363.9	2339.6
22.5°	2501.7	2477.4	2361.2	2304.5	2280.2
25°	2455.8	2420.6	2291.0	2234.2	2220.7
27.5°	2404.4	2363.9	2226.1	2169.4	2153.2
30°	2350.4	2299.1	2153.2	2099.1	2069.4
32.5°	2282.9	2234.2	2082.9	2020.8	1988.4
35°	2218.0	2158.6	2010.0	1931.6	1899.2
37.5°	2139.7	2080.2	1926.2	1847.9	1810.1
40°	2055.9	1996.5	1845.2	1753.3	1704.7
42.5°	1964.1	1910.0	1756.0	1645.3	1550.7
45°	1861.4	1815.5	1661.5	1496.7	1304.9
47.5°	1766.8	1723.6	1566.9	1353.5	1156.3
50°	1666.9	1626.4	1469.7	1218.4	1056.3
52.5°	1556.1	1526.4	1364.3	1102.3	972.6
55°	1450.8	1429.1	1258.9	999.6	896.9
57.5°	1340.0	1318.4	1153.6	902.3	821.3
60°	1237.3	1215.7	1048.2	815.9	751.0
62.5°	1134.7	1105.0	945.6	732.1	678.1
65°	1021.2	996.9	837.5	651.1	616.0
67.5°	907.7	886.1	737.5	575.4	551.1
70°	794.3	775.4	634.9	502.5	489.0
72.5°	683.5	659.2	543.0	429.6	424.2
75°	567.3	548.4	440.4	351.2	340.4
77.5°	456.6	440.4	345.8	267.5	259.4
80°	348.5	332.3	248.5	194.5	202.6
82.5°	256.7	235.0	167.5	151.3	159.4
85°	156.7	137.8	108.1	102.7	102.7
87.5°	54.0	51.3	48.6	56.7	59.4
90°	8.1	37.8	64.8	81.0	86.5
92.5°	45.9	67.5	89.2	105.4	110.8
95°	86.5	116.2	132.4	194.5	210.7
97.5°	118.9	154.0	172.9	229.6	245.8
100°	151.3	183.7	243.1	272.9	291.8
102.5°	178.3	202.6	286.4	345.8	356.6
105°	202.6	210.7	302.6	405.2	429.6



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CATALOG NUMBER: 8WSLA-125-L940-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	243.1	216.1	324.2	440.4	483.6
115°	251.2	213.4	321.5	443.1	486.3
117.5°	251.2	213.4	313.4	443.1	486.3
120°	245.8	216.1	302.6	437.7	483.6
122.5°	240.4	210.7	291.8	426.9	472.8
125°	232.3	205.3	278.3	407.9	459.3
127.5°	218.8	210.7	264.8	383.6	435.0
130°	208.0	213.4	248.5	359.3	410.6
132.5°	199.9	208.0	232.3	332.3	378.2
135°	189.1	205.3	224.2	302.6	348.5
137.5°	181.0	197.2	210.7	275.6	313.4
140°	172.9	191.8	197.2	240.4	272.9
142.5°	162.1	183.7	186.4	224.2	237.7
145°	154.0	178.3	194.5	208.0	221.5
147.5°	145.9	167.5	189.1	191.8	205.3
150°	143.2	156.7	181.0	183.7	189.1
152.5°	140.5	151.3	167.5	183.7	186.4
155°	140.5	148.6	159.4	172.9	175.6
157.5°	137.8	148.6	154.0	164.8	167.5
160°	137.8	145.9	151.3	159.4	162.1
162.5°	137.8	145.9	148.6	156.7	159.4
165°	137.8	143.2	148.6	154.0	154.0
167.5°	137.8	143.2	145.9	151.3	151.3
170°	137.8	140.5	145.9	148.6	148.6
172.5°	135.1	140.5	143.2	148.6	148.6
175°	135.1	137.8	140.5	143.2	145.9
177.5°	129.7	137.8	140.5	143.2	140.5
180°	132.4	132.4	132.4	132.4	132.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	221.5	213.4	313.4	426.9	462.0
110°	235.0	216.1	321.5	435.0	478.2



(END OF REPORT)