

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: P395292

Luminaire Tested: **8FSN6-SL1-CA08-L8SCT3-3500K-HI**

Issue Date: 5/5/2020

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: P395292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-099-13)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 5/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 8FSN6-SL1-CA08-L8SCT3-3500K-HI
Description: 8FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3500K LEDS AND CA08 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8213.0 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

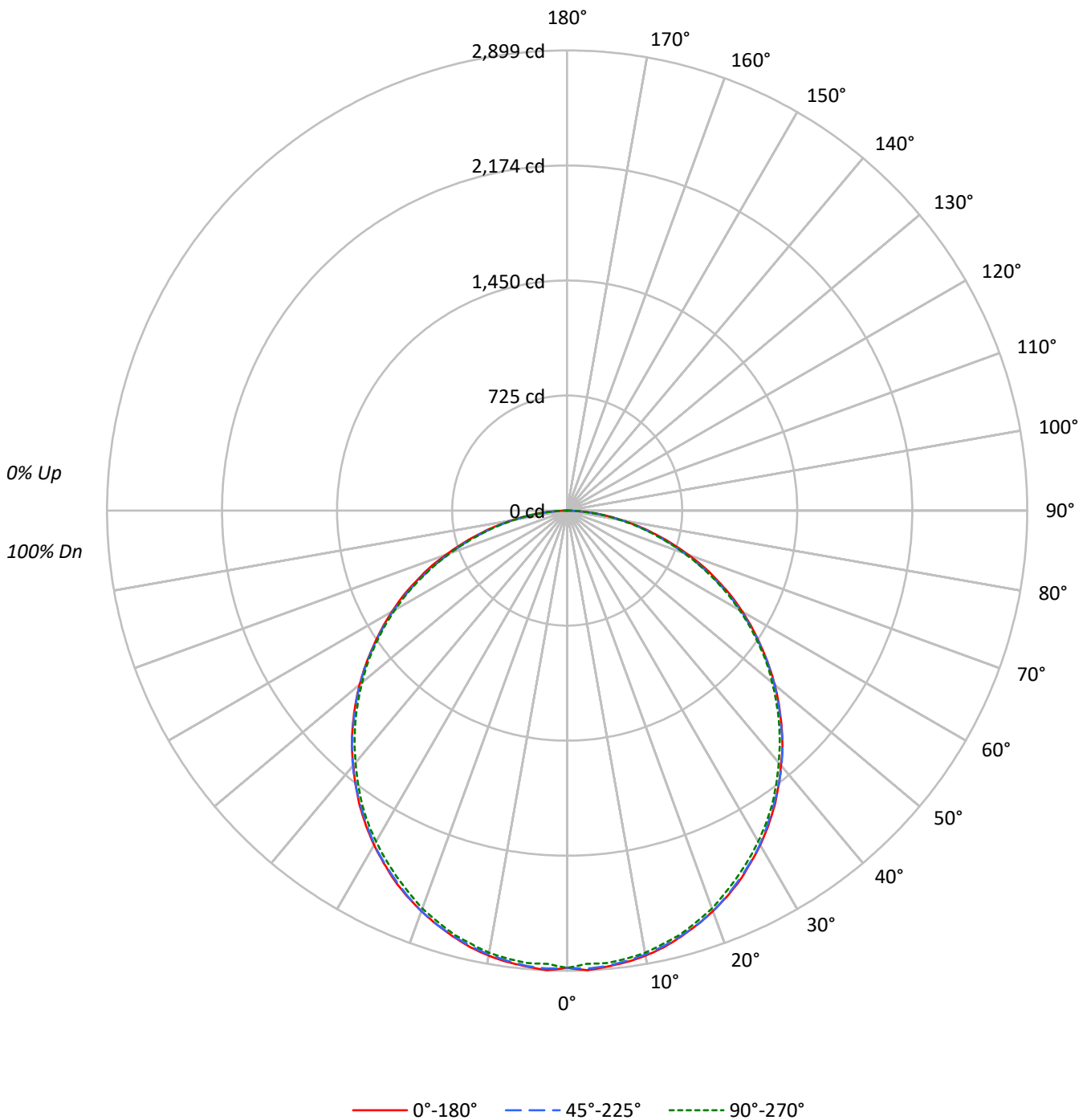
Input Watts (W): 77.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7751	7751	7751
5°	7790	7780	7731
10°	7780	7760	7730
15°	7738	7728	7697
20°	7692	7692	7639
25°	7638	7616	7551
30°	7561	7549	7481
35°	7476	7452	7403
40°	7363	7376	7286
45°	7266	7252	7182
50°	7149	7134	7057
55°	6997	6980	6929
60°	6863	6804	6745
65°	6673	6557	6510
70°	6371	6199	6170
75°	5981	5791	5753
80°	5452	5339	5224
85°	4752	4526	4412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	3.3
10°-20°	780.1	9.5
20°-30°	1176.8	14.3
30°-40°	1413.3	17.2
40°-50°	1463.8	17.8
50°-60°	1326.1	16.1
60°-70°	1017.8	12.4
70°-80°	593.3	7.2
80°-90°	169.2	2.1
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°	2229.5	27.1
0°-40°	3642.8	44.4
0°-60°	6432.7	78.3
0°-90°	8213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2880	2880	2880	2880	2880	
5°	2884	2862	2880	2862	2862	274
15°	2778	2756	2774	2759	2763	784
25°	2572	2550	2565	2540	2543	1184
35°	2276	2261	2268	2243	2254	1423
45°	1909	1906	1906	1880	1887	1473
55°	1491	1495	1488	1466	1477	1335
65°	1048	1037	1030	1019	1022	1037
75°	575	568	557	550	553	610
85°	154	154	147	139	143	175
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2880.3	2880.3	2880.3	2880.3	2880.3
2.5°	2898.6	2872.9	2887.6	2872.9	2858.3
5°	2883.9	2861.9	2880.3	2861.9	2861.9
7.5°	2869.3	2847.3	2861.9	2843.6	2847.3
10°	2847.3	2825.3	2839.9	2825.3	2829.0
12.5°	2818.0	2792.3	2810.6	2796.0	2796.0
15°	2777.6	2755.7	2774.0	2759.3	2763.0
17.5°	2733.7	2711.7	2733.7	2715.4	2715.4
20°	2686.0	2664.1	2686.0	2664.1	2667.7
22.5°	2631.1	2612.7	2627.4	2601.8	2605.4
25°	2572.4	2550.5	2565.1	2539.5	2543.1
27.5°	2502.8	2484.5	2499.2	2473.5	2477.2
30°	2433.2	2414.9	2429.5	2400.2	2407.5
32.5°	2356.2	2337.9	2348.9	2326.9	2334.3
35°	2275.6	2261.0	2268.3	2242.6	2253.6
37.5°	2187.7	2176.7	2187.7	2158.4	2165.7
40°	2096.1	2088.7	2099.7	2070.4	2074.1
42.5°	2008.1	1997.1	2008.1	1978.8	1982.5
45°	1909.2	1905.5	1905.5	1879.9	1887.2
47.5°	1810.2	1806.6	1806.6	1780.9	1788.2
50°	1707.6	1707.6	1704.0	1678.3	1685.6
52.5°	1601.4	1601.4	1597.7	1575.7	1586.7
55°	1491.4	1495.1	1487.8	1465.8	1476.8
57.5°	1385.2	1385.2	1377.8	1359.5	1366.8
60°	1275.2	1271.6	1264.2	1245.9	1253.2
62.5°	1165.3	1158.0	1147.0	1132.3	1139.6
65°	1048.0	1037.0	1029.7	1018.7	1022.4
67.5°	934.4	919.8	908.8	894.1	901.5
70°	809.8	798.8	787.9	776.9	784.2
72.5°	692.6	681.6	670.6	663.3	666.9
75°	575.3	568.0	557.0	549.7	553.3
77.5°	465.4	454.4	450.7	439.7	443.4
80°	351.8	348.1	344.5	333.5	337.1
82.5°	249.2	249.2	241.9	234.5	238.2
85°	153.9	153.9	146.6	139.2	142.9
87.5°	66.0	62.3	62.3	58.6	58.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)