

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: P395291

Luminaire Tested: **8FSN6-SL1-CA08-L8SCT3-3000K-MID**

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: P395291
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-L8SCT3-3000K-MID
Description: 8FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 3000K LEDS AND CA08 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6767.0 lumens
Efficiency: N/A
Efficacy: 116.7 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

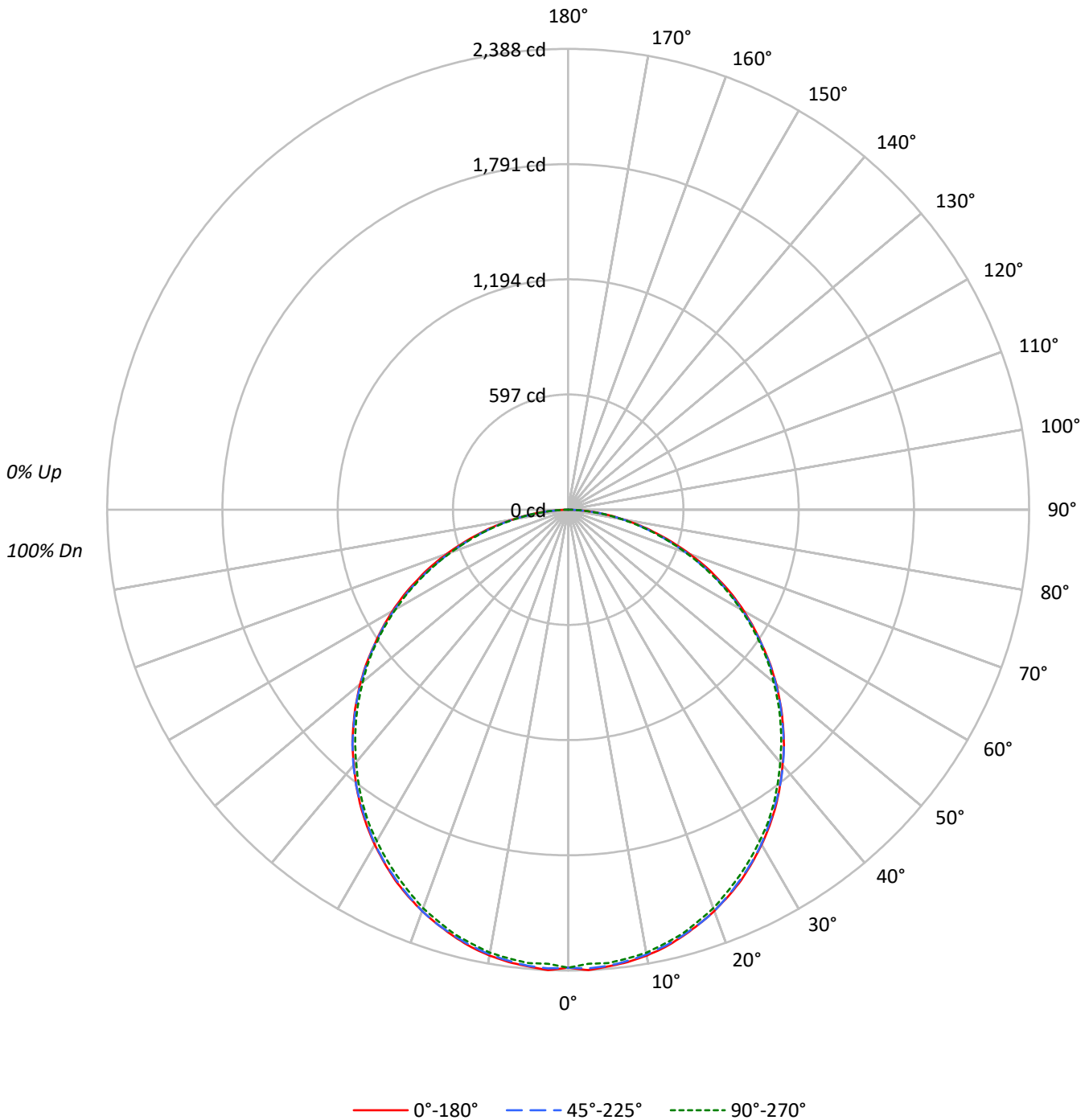
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6386	6386	6386
5°	6419	6410	6370
10°	6410	6394	6369
15°	6376	6367	6342
20°	6338	6338	6294
25°	6293	6275	6222
30°	6229	6220	6164
35°	6160	6139	6100
40°	6067	6077	6003
45°	5986	5975	5917
50°	5890	5878	5815
55°	5765	5751	5709
60°	5655	5606	5557
65°	5498	5402	5364
70°	5250	5107	5083
75°	4928	4771	4740
80°	4493	4398	4305
85°	3915	3730	3637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.7	3.3
10°-20°	642.7	9.5
20°-30°	969.6	14.3
30°-40°	1164.5	17.2
40°-50°	1206.1	17.8
50°-60°	1092.6	16.1
60°-70°	838.6	12.4
70°-80°	488.8	7.2
80°-90°	139.4	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°	1837.0	27.1
0°-40°	3001.5	44.4
0°-60°	5300.1	78.3
0°-90°	6767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2373	2373	2373	2373	2373	
5°	2376	2358	2373	2358	2358	226
15°	2289	2270	2286	2274	2276	646
25°	2120	2101	2114	2092	2095	976
35°	1875	1863	1869	1848	1857	1172
45°	1573	1570	1570	1549	1555	1214
55°	1229	1232	1226	1208	1217	1100
65°	864	854	848	839	842	854
75°	474	468	459	453	456	503
85°	127	127	121	115	118	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2373.1	2373.1	2373.1	2373.1	2373.1
2.5°	2388.2	2367.1	2379.2	2367.1	2355.0
5°	2376.2	2358.1	2373.1	2358.1	2358.1
7.5°	2364.1	2346.0	2358.1	2343.0	2346.0
10°	2346.0	2327.9	2339.9	2327.9	2330.9
12.5°	2321.8	2300.7	2315.8	2303.7	2303.7
15°	2288.6	2270.5	2285.6	2273.5	2276.5
17.5°	2252.4	2234.3	2252.4	2237.3	2237.3
20°	2213.1	2195.0	2213.1	2195.0	2198.0
22.5°	2167.8	2152.7	2164.8	2143.7	2146.7
25°	2119.5	2101.4	2113.5	2092.4	2095.4
27.5°	2062.2	2047.1	2059.1	2038.0	2041.0
30°	2004.8	1989.7	2001.8	1977.6	1983.7
32.5°	1941.4	1926.3	1935.4	1917.2	1923.3
35°	1875.0	1862.9	1868.9	1847.8	1856.9
37.5°	1802.5	1793.4	1802.5	1778.4	1784.4
40°	1727.0	1721.0	1730.0	1705.9	1708.9
42.5°	1654.6	1645.5	1654.6	1630.4	1633.4
45°	1573.0	1570.0	1570.0	1548.9	1554.9
47.5°	1491.5	1488.5	1488.5	1467.4	1473.4
50°	1407.0	1407.0	1404.0	1382.8	1388.9
52.5°	1319.4	1319.4	1316.4	1298.3	1307.3
55°	1228.8	1231.9	1225.8	1207.7	1216.8
57.5°	1141.3	1141.3	1135.2	1120.2	1126.2
60°	1050.7	1047.7	1041.6	1026.6	1032.6
62.5°	960.1	954.1	945.0	933.0	939.0
65°	863.5	854.5	848.4	839.4	842.4
67.5°	769.9	757.8	748.8	736.7	742.7
70°	667.3	658.2	649.1	640.1	646.1
72.5°	570.6	561.6	552.5	546.5	549.5
75°	474.0	468.0	458.9	452.9	455.9
77.5°	383.4	374.4	371.4	362.3	365.3
80°	289.9	286.8	283.8	274.8	277.8
82.5°	205.3	205.3	199.3	193.2	196.3
85°	126.8	126.8	120.8	114.7	117.8
87.5°	54.3	51.3	51.3	48.3	48.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)