

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: P395294

Luminaire Tested: **8FSN6-SL1-CA08-L8SCT3-3500K-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: P395294
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-MID
Description: 8FT FSN LINEAR LED FIXTURE WITH MID 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: 6928.0 lumens
Efficiency: N/A
Efficacy: 119.4 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

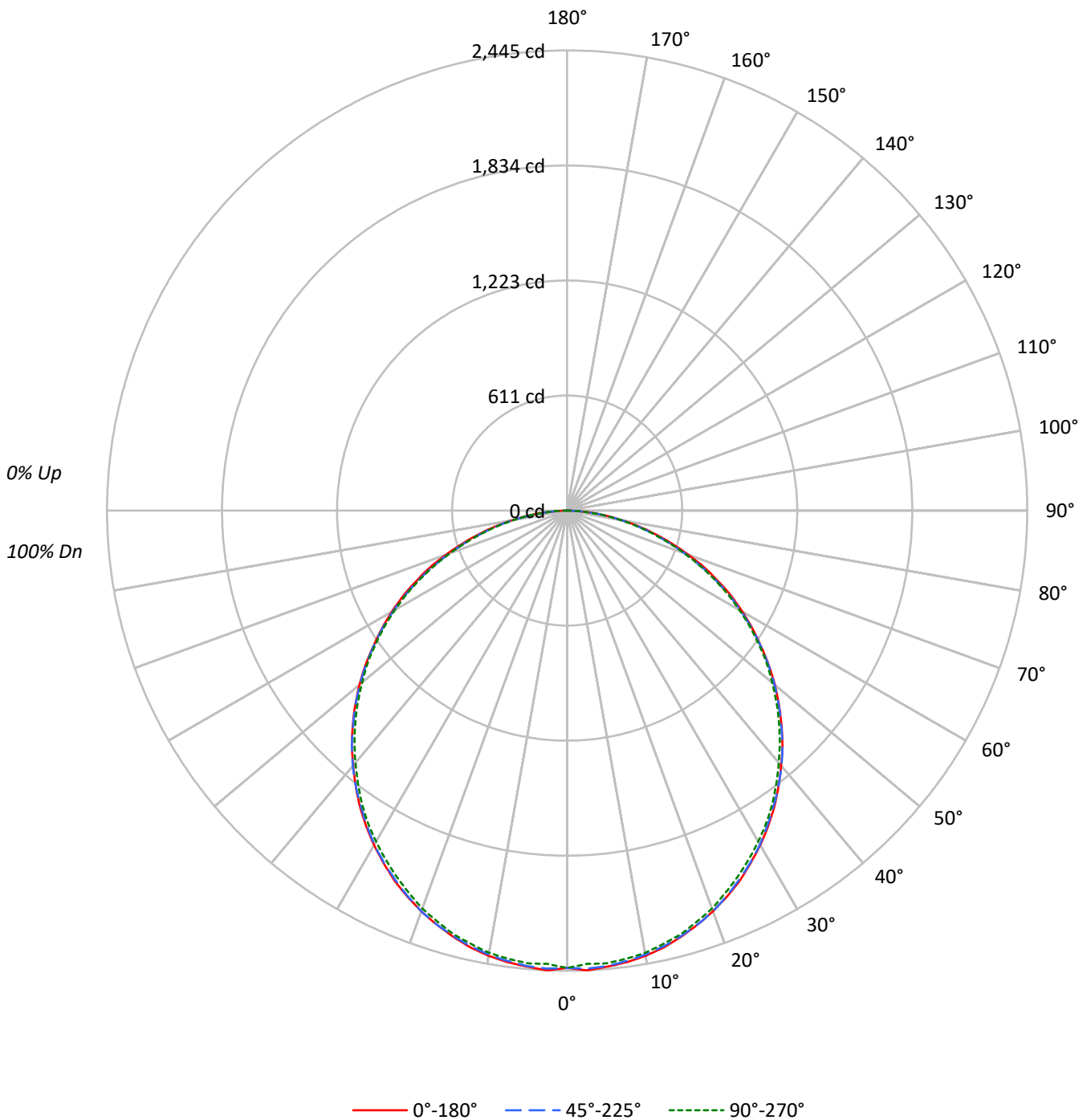
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6538	6538	6538
5°	6571	6563	6521
10°	6563	6546	6521
15°	6528	6519	6493
20°	6489	6489	6444
25°	6443	6425	6369
30°	6378	6368	6311
35°	6306	6286	6245
40°	6211	6222	6146
45°	6129	6117	6058
50°	6031	6018	5953
55°	5902	5888	5844
60°	5789	5739	5690
65°	5629	5531	5491
70°	5375	5229	5205
75°	5046	4885	4853
80°	4598	4503	4407
85°	4008	3816	3724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.0	3.3
10°-20°	658.0	9.5
20°-30°	992.7	14.3
30°-40°	1192.2	17.2
40°-50°	1234.8	17.8
50°-60°	1118.6	16.1
60°-70°	858.6	12.4
70°-80°	500.4	7.2
80°-90°	142.7	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°	1880.7	27.1
0°-40°	3072.9	44.4
0°-60°	5426.2	78.3
0°-90°	6928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2430	2430	2430	2430	2430	
5°	2433	2414	2430	2414	2414	231
15°	2343	2324	2340	2328	2331	661
25°	2170	2151	2164	2142	2145	999
35°	1920	1907	1913	1892	1901	1200
45°	1610	1607	1607	1586	1592	1243
55°	1258	1261	1255	1236	1246	1126
65°	884	875	869	859	862	875
75°	485	479	470	464	467	515
85°	130	130	124	118	121	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2429.6	2429.6	2429.6	2429.6	2429.6
2.5°	2445.1	2423.4	2435.8	2423.4	2411.1
5°	2432.7	2414.2	2429.6	2414.2	2414.2
7.5°	2420.3	2401.8	2414.2	2398.7	2401.8
10°	2401.8	2383.2	2395.6	2383.2	2386.3
12.5°	2377.1	2355.4	2370.9	2358.5	2358.5
15°	2343.1	2324.5	2340.0	2327.6	2330.7
17.5°	2306.0	2287.4	2306.0	2290.5	2290.5
20°	2265.8	2247.2	2265.8	2247.2	2250.3
22.5°	2219.4	2204.0	2216.3	2194.7	2197.8
25°	2170.0	2151.4	2163.8	2142.1	2145.2
27.5°	2111.2	2095.8	2108.1	2086.5	2089.6
30°	2052.5	2037.0	2049.4	2024.7	2030.9
32.5°	1987.6	1972.1	1981.4	1962.9	1969.0
35°	1919.6	1907.2	1913.4	1891.8	1901.0
37.5°	1845.4	1836.1	1845.4	1820.7	1826.8
40°	1768.1	1761.9	1771.2	1746.5	1749.6
42.5°	1693.9	1684.7	1693.9	1669.2	1672.3
45°	1610.5	1607.4	1607.4	1585.7	1591.9
47.5°	1527.0	1523.9	1523.9	1502.3	1508.5
50°	1440.5	1440.5	1437.4	1415.7	1421.9
52.5°	1350.8	1350.8	1347.7	1329.2	1338.4
55°	1258.1	1261.2	1255.0	1236.4	1245.7
57.5°	1168.4	1168.4	1162.3	1146.8	1153.0
60°	1075.7	1072.6	1066.4	1051.0	1057.2
62.5°	983.0	976.8	967.5	955.2	961.3
65°	884.1	874.8	868.6	859.3	862.4
67.5°	788.2	775.9	766.6	754.2	760.4
70°	683.1	673.9	664.6	655.3	661.5
72.5°	584.2	574.9	565.7	559.5	562.6
75°	485.3	479.1	469.8	463.7	466.8
77.5°	392.6	383.3	380.2	370.9	374.0
80°	296.7	293.7	290.6	281.3	284.4
82.5°	210.2	210.2	204.0	197.8	200.9
85°	129.8	129.8	123.6	117.5	120.6
87.5°	55.6	52.5	52.5	49.5	49.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)