

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: P395157

Luminaire Tested: **2FSN6-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: P395157
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: 2FSN6-SL1-CA08-L8SCT3-3500K-HI
Description: 2FT 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: 2044.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 2' x H: 0')
CIE Type: Direct

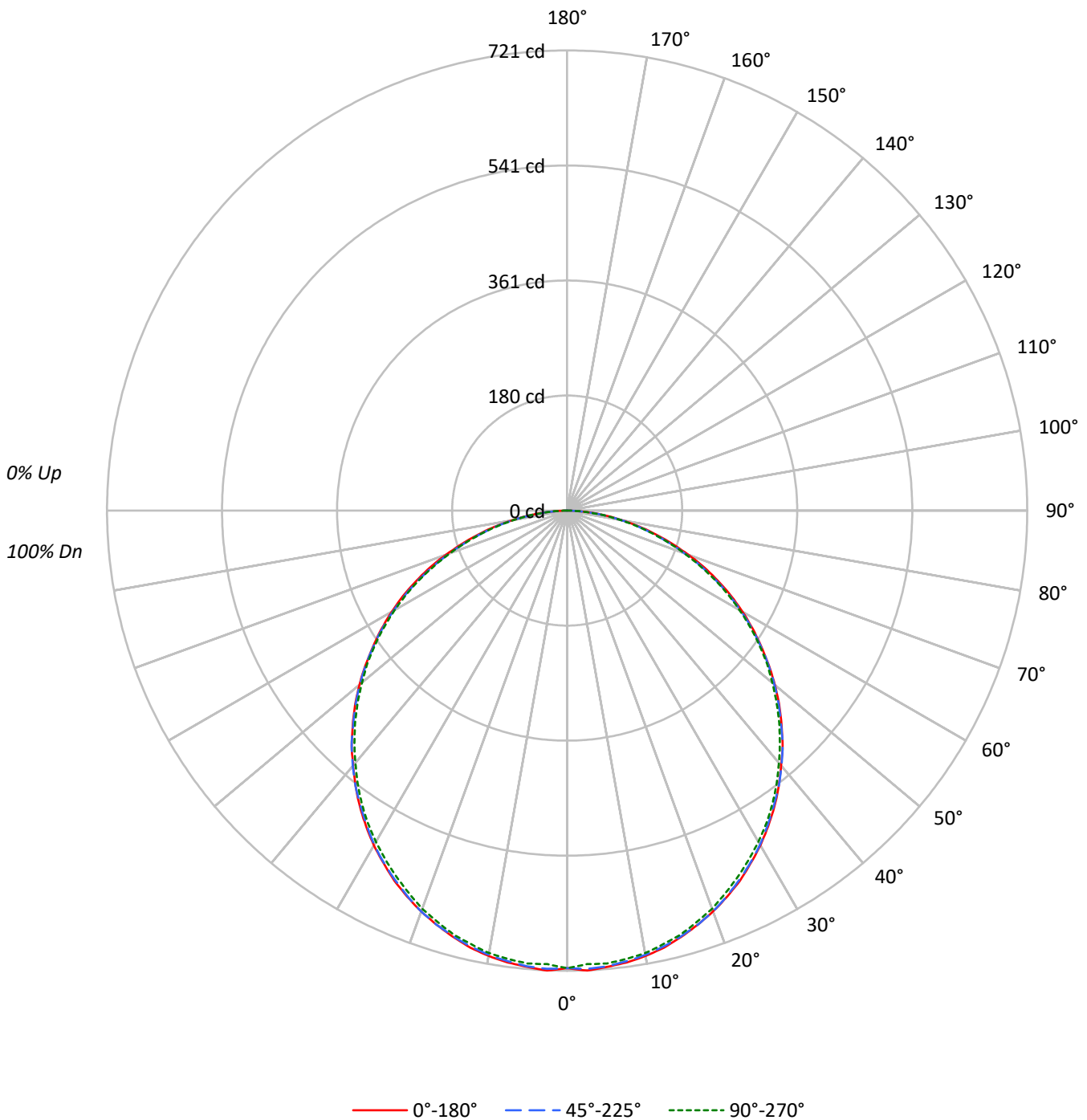
Input Watts (W): 19.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7716	7716	7716
5°	7755	7745	7696
10°	7745	7725	7696
15°	7704	7694	7662
20°	7657	7657	7605
25°	7603	7582	7517
30°	7527	7515	7448
35°	7441	7418	7370
40°	7331	7343	7253
45°	7232	7218	7150
50°	7117	7102	7025
55°	6966	6949	6897
60°	6833	6773	6715
65°	6642	6528	6479
70°	6342	6172	6143
75°	5955	5764	5727
80°	5430	5312	5201
85°	4730	4508	4397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	3.3
10°-20°	194.1	9.5
20°-30°	292.9	14.3
30°-40°	351.7	17.2
40°-50°	364.3	17.8
50°-60°	330.0	16.1
60°-70°	253.3	12.4
70°-80°	147.7	7.2
80°-90°	42.1	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°	554.9	27.1
0°-40°	906.6	44.4
0°-60°	1600.9	78.3
0°-90°	2044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	717	717	717	717	717	
5°	718	712	717	712	712	68
15°	691	686	690	687	688	195
25°	640	635	638	632	633	295
35°	566	563	564	558	561	354
45°	475	474	474	468	470	367
55°	371	372	370	365	368	332
65°	261	258	256	254	254	258
75°	143	141	139	137	138	152
85°	38	38	36	35	36	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	716.8	716.8	716.8	716.8	716.8
2.5°	721.4	715.0	718.6	715.0	711.3
5°	717.7	712.3	716.8	712.3	712.3
7.5°	714.1	708.6	712.3	707.7	708.6
10°	708.6	703.1	706.8	703.1	704.1
12.5°	701.3	694.9	699.5	695.8	695.8
15°	691.3	685.8	690.4	686.7	687.6
17.5°	680.3	674.9	680.3	675.8	675.8
20°	668.5	663.0	668.5	663.0	663.9
22.5°	654.8	650.2	653.9	647.5	648.4
25°	640.2	634.7	638.4	632.0	632.9
27.5°	622.9	618.3	622.0	615.6	616.5
30°	605.6	601.0	604.6	597.3	599.2
32.5°	586.4	581.8	584.6	579.1	580.9
35°	566.3	562.7	564.5	558.1	560.9
37.5°	544.5	541.7	544.5	537.2	539.0
40°	521.7	519.8	522.6	515.3	516.2
42.5°	499.8	497.0	499.8	492.5	493.4
45°	475.1	474.2	474.2	467.8	469.7
47.5°	450.5	449.6	449.6	443.2	445.0
50°	425.0	425.0	424.1	417.7	419.5
52.5°	398.5	398.5	397.6	392.2	394.9
55°	371.2	372.1	370.3	364.8	367.5
57.5°	344.7	344.7	342.9	338.3	340.2
60°	317.4	316.5	314.6	310.1	311.9
62.5°	290.0	288.2	285.5	281.8	283.6
65°	260.8	258.1	256.3	253.5	254.4
67.5°	232.6	228.9	226.2	222.5	224.3
70°	201.5	198.8	196.1	193.3	195.2
72.5°	172.4	169.6	166.9	165.1	166.0
75°	143.2	141.4	138.6	136.8	137.7
77.5°	115.8	113.1	112.2	109.4	110.4
80°	87.6	86.6	85.7	83.0	83.9
82.5°	62.0	62.0	60.2	58.4	59.3
85°	38.3	38.3	36.5	34.7	35.6
87.5°	16.4	15.5	15.5	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)