

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: P395154

Luminaire Tested: **2FSN6-SL1-CA08-L8SCT3-3000K-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: P395154
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-L8SCT3-3000K-HI
Description: 2FT FSN LINEAR LED FIXTURE WITH HIGH 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: 1987.0 lumens
Efficiency: N/A
Efficacy: 102.4 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

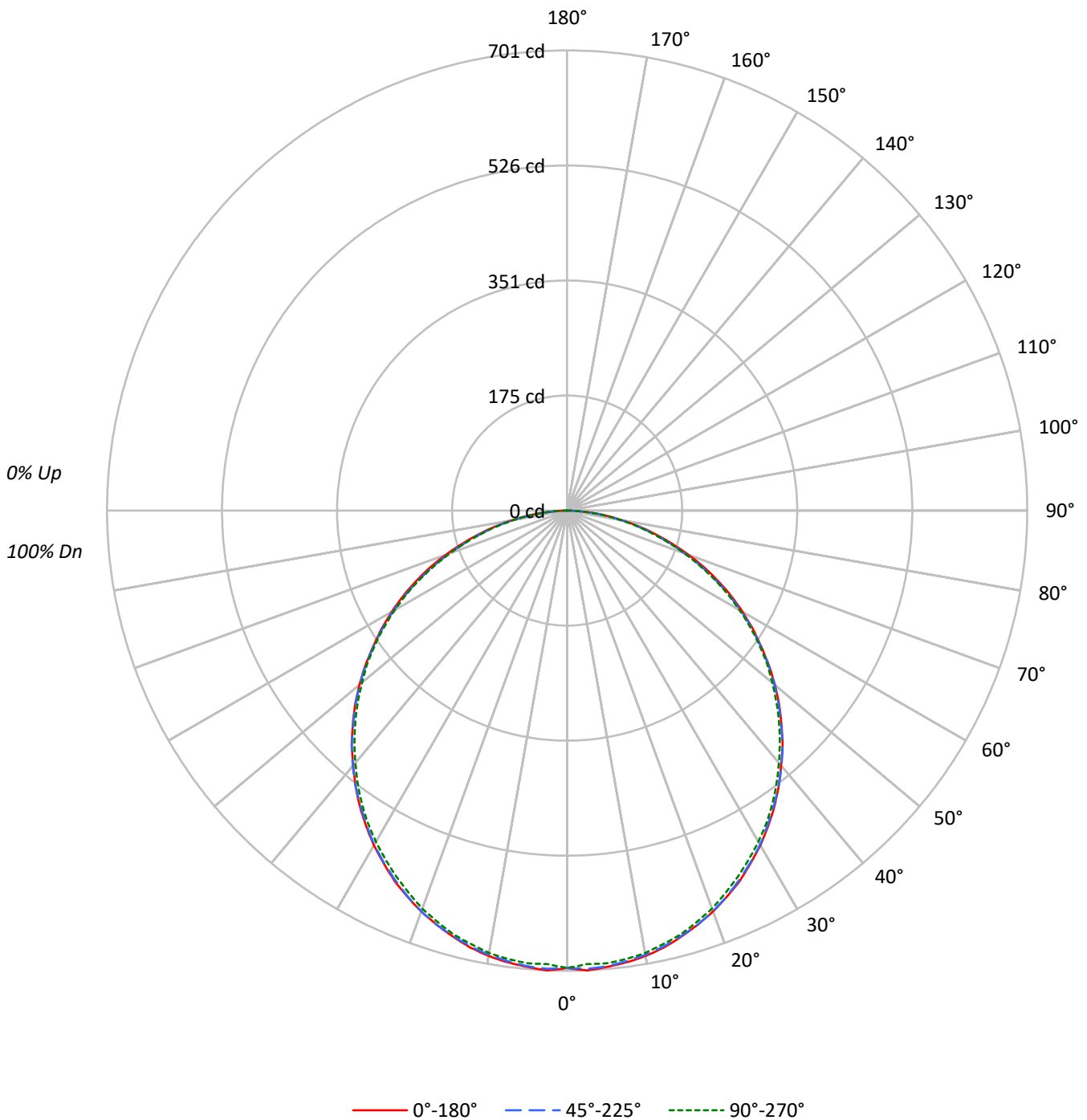
Input Watts (W): 19.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7500	7500	7500
5°	7539	7529	7481
10°	7530	7510	7480
15°	7489	7478	7450
20°	7443	7443	7393
25°	7392	7371	7308
30°	7317	7306	7240
35°	7234	7211	7164
40°	7125	7138	7051
45°	7031	7018	6951
50°	6918	6903	6829
55°	6771	6754	6705
60°	6641	6585	6527
65°	6459	6344	6299
70°	6165	5998	5970
75°	5789	5606	5569
80°	5275	5164	5058
85°	4594	4384	4273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	3.3
10°-20°	188.7	9.5
20°-30°	284.7	14.3
30°-40°	341.9	17.2
40°-50°	354.1	17.8
50°-60°	320.8	16.1
60°-70°	246.2	12.4
70°-80°	143.5	7.2
80°-90°	40.9	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°	539.4	27.1
0°-40°	881.3	44.4
0°-60°	1556.3	78.3
0°-90°	1987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	698	692	697	692	692	66
15°	672	667	671	668	668	190
25°	622	617	621	614	615	287
35°	550	547	549	543	545	344
45°	462	461	461	455	457	356
55°	361	362	360	355	357	323
65°	254	251	249	246	247	251
75°	139	137	135	133	134	148
85°	37	37	36	34	35	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	696.8	696.8	696.8	696.8	696.8
2.5°	701.3	695.1	698.6	695.1	691.5
5°	697.7	692.4	696.8	692.4	692.4
7.5°	694.2	688.9	692.4	688.0	688.9
10°	688.9	683.5	687.1	683.5	684.4
12.5°	681.8	675.6	680.0	676.4	676.4
15°	672.0	666.7	671.1	667.6	668.5
17.5°	661.4	656.0	661.4	656.9	656.9
20°	649.8	644.5	649.8	644.5	645.4
22.5°	636.5	632.1	635.7	629.5	630.3
25°	622.4	617.0	620.6	614.4	615.3
27.5°	605.5	601.1	604.6	598.4	599.3
30°	588.7	584.2	587.8	580.7	582.5
32.5°	570.1	565.6	568.3	563.0	564.7
35°	550.5	547.0	548.8	542.6	545.2
37.5°	529.3	526.6	529.3	522.2	524.0
40°	507.1	505.3	508.0	500.9	501.8
42.5°	485.8	483.2	485.8	478.7	479.6
45°	461.9	461.0	461.0	454.8	456.6
47.5°	438.0	437.1	437.1	430.9	432.6
50°	413.1	413.1	412.2	406.0	407.8
52.5°	387.4	387.4	386.5	381.2	383.9
55°	360.8	361.7	359.9	354.6	357.3
57.5°	335.1	335.1	333.3	328.9	330.7
60°	308.5	307.6	305.9	301.4	303.2
62.5°	281.9	280.2	277.5	273.9	275.7
65°	253.6	250.9	249.1	246.5	247.3
67.5°	226.1	222.5	219.9	216.3	218.1
70°	195.9	193.3	190.6	187.9	189.7
72.5°	167.6	164.9	162.2	160.5	161.4
75°	139.2	137.4	134.8	133.0	133.9
77.5°	112.6	109.9	109.0	106.4	107.3
80°	85.1	84.2	83.3	80.7	81.6
82.5°	60.3	60.3	58.5	56.7	57.6
85°	37.2	37.2	35.5	33.7	34.6
87.5°	16.0	15.1	15.1	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)