

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: P395203

Luminaire Tested: **4FSN6-SL1-CA08-L8SCT3-3500K-LO**

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: P395203  
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: 4FSN6-SL1-CA08-L8SCT3-3500K-LO  
Description: 4FT FSN LINEAR LED FIXTURE WITH LOW 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: 2202.0 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Direct

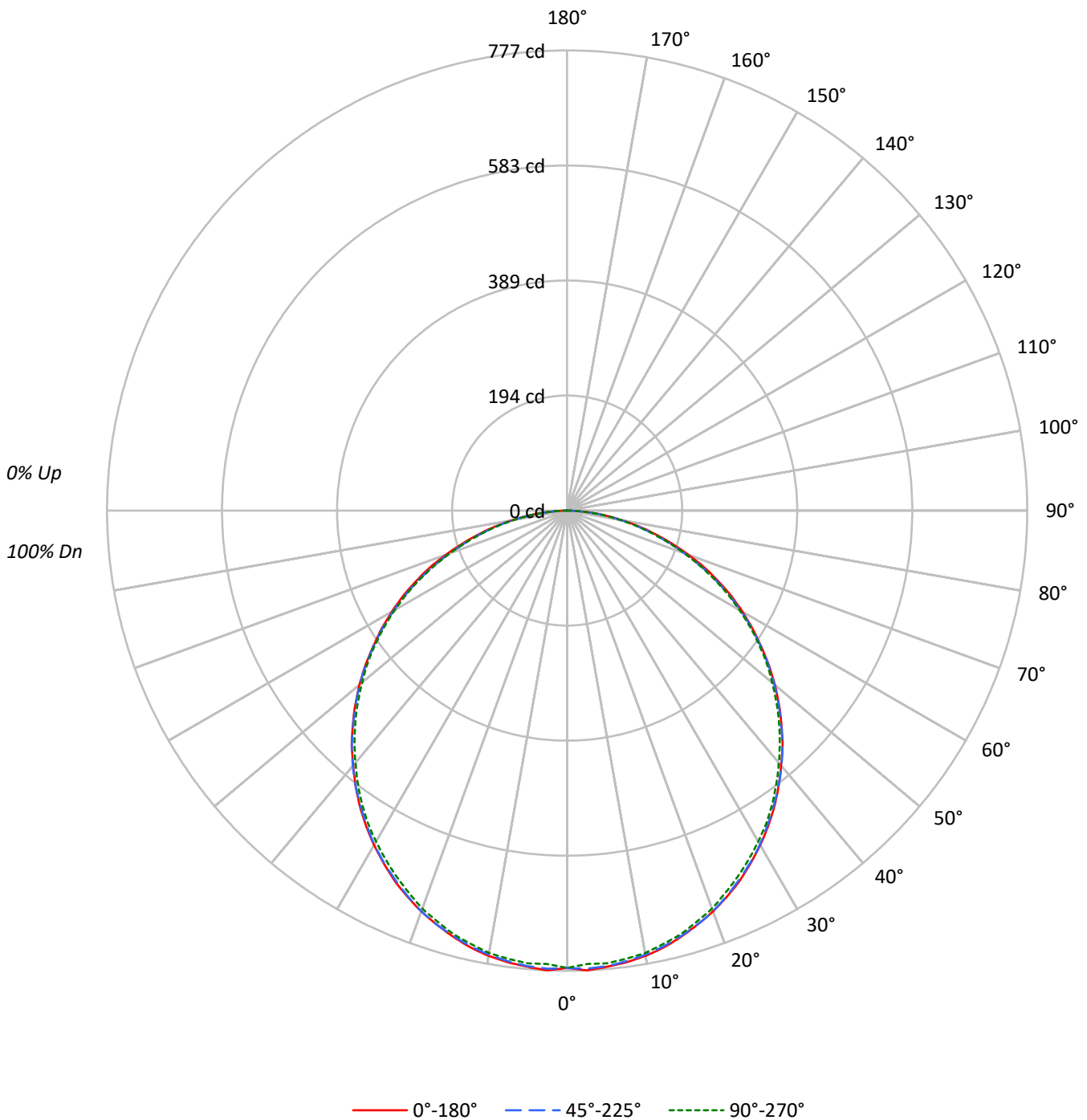
Input Watts (W): 18.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4156	4156	4156
5°	4177	4172	4145
10°	4172	4161	4145
15°	4149	4144	4128
20°	4125	4125	4096
25°	4096	4084	4049
30°	4054	4048	4011
35°	4008	3996	3970
40°	3948	3955	3907
45°	3896	3889	3851
50°	3833	3826	3784
55°	3752	3743	3715
60°	3680	3649	3617
65°	3578	3516	3491
70°	3416	3323	3309
75°	3206	3105	3086
80°	2923	2864	2802
85°	2550	2427	2365



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.1	3.3
10°-20°	209.1	9.5
20°-30°	315.5	14.3
30°-40°	378.9	17.2
40°-50°	392.5	17.8
50°-60°	355.5	16.1
60°-70°	272.9	12.4
70°-80°	159.1	7.2
80°-90°	45.4	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°	597.8	27.1
0°-40°	976.7	44.4
0°-60°	1724.7	78.3
0°-90°	2202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2202.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	773	767	772	767	767	74
15°	745	739	744	740	741	210
25°	690	684	688	681	682	318
35°	610	606	608	601	604	381
45°	512	511	511	504	506	395
55°	400	401	399	393	396	358
65°	281	278	276	273	274	278
75°	154	152	149	147	148	164
85°	41	41	39	37	38	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	772.2	772.2	772.2	772.2	772.2
2.5°	777.1	770.3	774.2	770.3	766.3
5°	773.2	767.3	772.2	767.3	767.3
7.5°	769.3	763.4	767.3	762.4	763.4
10°	763.4	757.5	761.4	757.5	758.5
12.5°	755.5	748.6	753.6	749.6	749.6
15°	744.7	738.8	743.7	739.8	740.8
17.5°	732.9	727.0	732.9	728.0	728.0
20°	720.2	714.3	720.2	714.3	715.2
22.5°	705.4	700.5	704.4	697.6	698.5
25°	689.7	683.8	687.7	680.9	681.8
27.5°	671.0	666.1	670.1	663.2	664.2
30°	652.4	647.5	651.4	643.5	645.5
32.5°	631.7	626.8	629.8	623.9	625.8
35°	610.1	606.2	608.2	601.3	604.2
37.5°	586.5	583.6	586.5	578.7	580.6
40°	562.0	560.0	563.0	555.1	556.1
42.5°	538.4	535.5	538.4	530.5	531.5
45°	511.9	510.9	510.9	504.0	506.0
47.5°	485.3	484.4	484.4	477.5	479.5
50°	457.8	457.8	456.9	450.0	451.9
52.5°	429.3	429.3	428.4	422.5	425.4
55°	399.9	400.9	398.9	393.0	395.9
57.5°	371.4	371.4	369.4	364.5	366.5
60°	341.9	340.9	339.0	334.0	336.0
62.5°	312.4	310.5	307.5	303.6	305.6
65°	281.0	278.0	276.1	273.1	274.1
67.5°	250.5	246.6	243.7	239.7	241.7
70°	217.1	214.2	211.2	208.3	210.3
72.5°	185.7	182.7	179.8	177.8	178.8
75°	154.2	152.3	149.3	147.4	148.4
77.5°	124.8	121.8	120.8	117.9	118.9
80°	94.3	93.3	92.4	89.4	90.4
82.5°	66.8	66.8	64.8	62.9	63.9
85°	41.3	41.3	39.3	37.3	38.3
87.5°	17.7	16.7	16.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)