

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: P395212

Luminaire Tested: **4FSN6-SL1-CA125-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: P395212  
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-CA125-L8SCT3-3500K-LO  
Description: 4FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 3500K LEDS AND CA125 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2188.0 lumens  
Efficiency: N/A  
Efficacy: 119.6 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

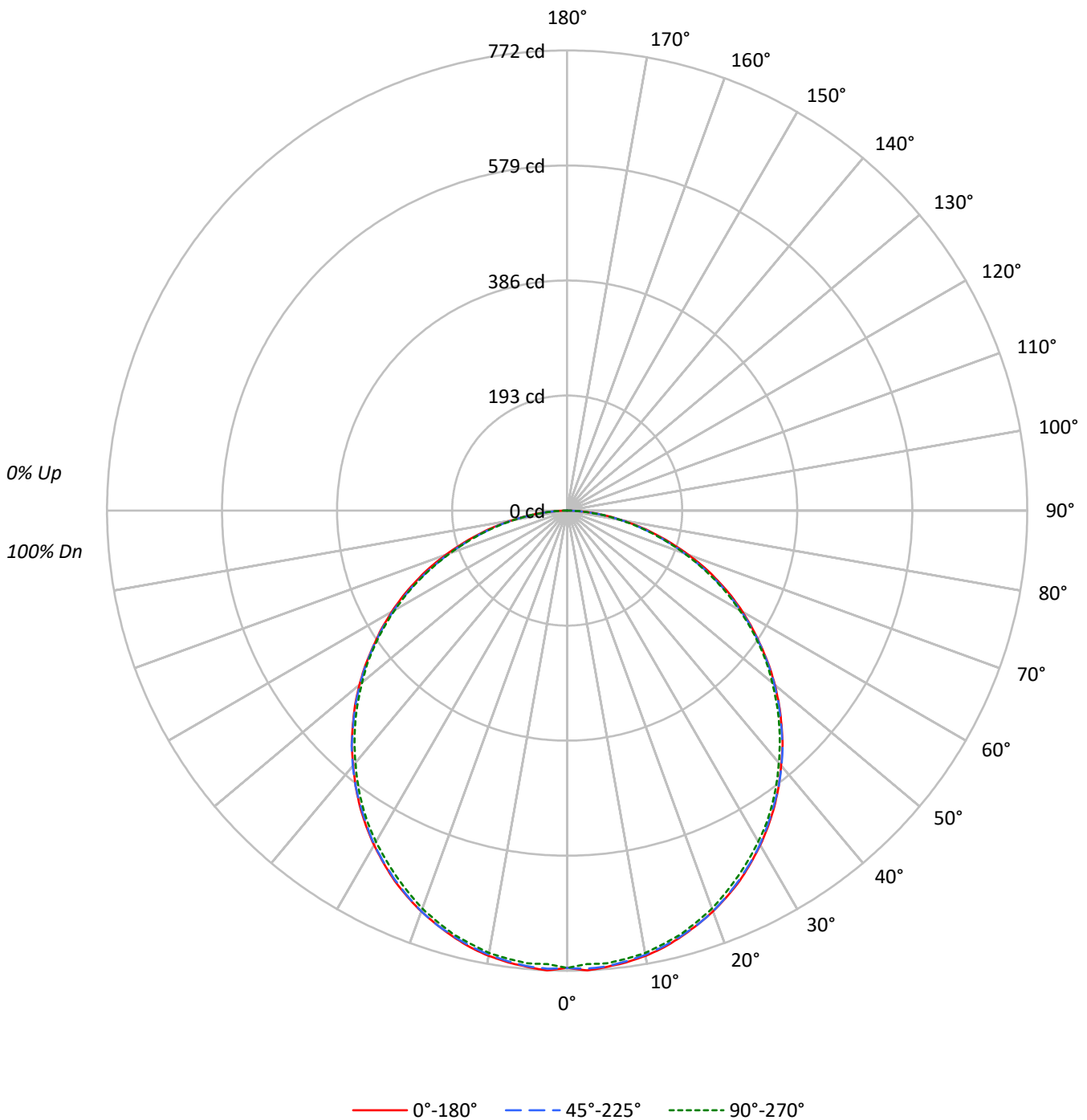
Input Watts (W): 18.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4130	4130	4130
5°	4151	4145	4119
10°	4145	4135	4119
15°	4123	4118	4101
20°	4098	4098	4070
25°	4070	4058	4023
30°	4028	4022	3986
35°	3983	3970	3945
40°	3923	3930	3882
45°	3871	3863	3827
50°	3809	3800	3760
55°	3728	3719	3691
60°	3657	3625	3594
65°	3556	3493	3469
70°	3394	3303	3287
75°	3188	3086	3065
80°	2904	2845	2783
85°	2532	2408	2353



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.6	3.3
10°-20°	207.8	9.5
20°-30°	313.5	14.3
30°-40°	376.5	17.2
40°-50°	390.0	17.8
50°-60°	353.3	16.1
60°-70°	271.2	12.4
70°-80°	158.1	7.2
80°-90°	45.1	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°	594.0	27.1
0°-40°	970.5	44.4
0°-60°	1713.7	78.3
0°-90°	2188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2188.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	768	762	767	762	762	73
15°	740	734	739	735	736	209
25°	685	680	683	676	678	316
35°	606	602	604	598	600	379
45°	509	508	508	501	503	392
55°	397	398	396	390	393	356
65°	279	276	274	271	272	276
75°	153	151	148	146	147	163
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°	767.3	767.3	767.3	767.3	767.3
2.5°	772.2	765.4	769.3	765.4	761.5
5°	768.3	762.4	767.3	762.4	762.4
7.5°	764.4	758.5	762.4	757.6	758.5
10°	758.5	752.7	756.6	752.7	753.7
12.5°	750.7	743.9	748.8	744.9	744.9
15°	740.0	734.1	739.0	735.1	736.1
17.5°	728.3	722.4	728.3	723.4	723.4
20°	715.6	709.7	715.6	709.7	710.7
22.5°	700.9	696.1	700.0	693.1	694.1
25°	685.3	679.5	683.4	676.5	677.5
27.5°	666.8	661.9	665.8	659.0	659.9
30°	648.2	643.3	647.2	639.4	641.4
32.5°	627.7	622.8	625.8	619.9	621.9
35°	606.2	602.3	604.3	597.5	600.4
37.5°	582.8	579.9	582.8	575.0	577.0
40°	558.4	556.5	559.4	551.6	552.5
42.5°	535.0	532.0	535.0	527.2	528.1
45°	508.6	507.6	507.6	500.8	502.8
47.5°	482.3	481.3	481.3	474.4	476.4
50°	454.9	454.9	453.9	447.1	449.1
52.5°	426.6	426.6	425.6	419.8	422.7
55°	397.3	398.3	396.4	390.5	393.4
57.5°	369.0	369.0	367.1	362.2	364.1
60°	339.7	338.8	336.8	331.9	333.9
62.5°	310.4	308.5	305.6	301.7	303.6
65°	279.2	276.3	274.3	271.4	272.4
67.5°	248.9	245.0	242.1	238.2	240.2
70°	215.7	212.8	209.9	207.0	208.9
72.5°	184.5	181.6	178.7	176.7	177.7
75°	153.3	151.3	148.4	146.4	147.4
77.5°	124.0	121.1	120.1	117.1	118.1
80°	93.7	92.7	91.8	88.8	89.8
82.5°	66.4	66.4	64.4	62.5	63.5
85°	41.0	41.0	39.0	37.1	38.1
87.5°	17.6	16.6	16.6	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)