

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: P395200

Luminaire Tested: **4FSN6-SL1-CA08-L8SCT3-3000K-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: P395200  
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-L8SCT3-3000K-LO  
Description: 4FT FSN LINEAR LED FIXTURE WITH LOW 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: 2164.0 lumens  
Efficiency: N/A  
Efficacy: 118.3 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

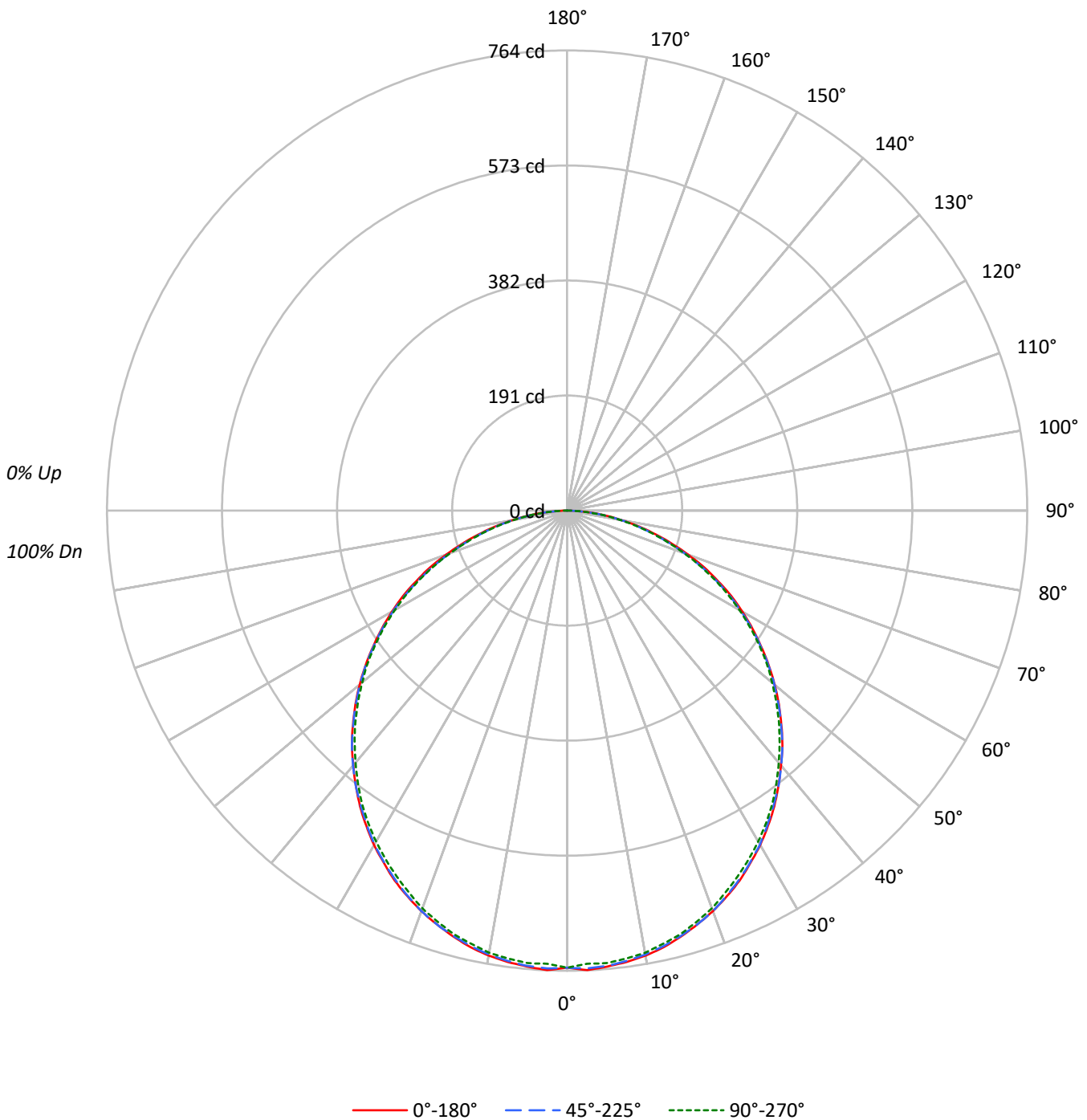
Input Watts (W): 18.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4084	4084	4084
5°	4105	4100	4074
10°	4100	4089	4074
15°	4078	4072	4056
20°	4053	4053	4026
25°	4025	4014	3979
30°	3984	3978	3943
35°	3939	3927	3901
40°	3880	3887	3840
45°	3828	3822	3784
50°	3767	3759	3718
55°	3688	3678	3651
60°	3617	3585	3554
65°	3516	3455	3431
70°	3358	3267	3251
75°	3152	3053	3032
80°	2873	2814	2752
85°	2507	2384	2328



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	3.3
10°-20°	205.5	9.5
20°-30°	310.1	14.3
30°-40°	372.4	17.2
40°-50°	385.7	17.8
50°-60°	349.4	16.1
60°-70°	268.2	12.4
70°-80°	156.3	7.2
80°-90°	44.6	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°	587.4	27.1
0°-40°	959.8	44.4
0°-60°	1694.9	78.3
0°-90°	2164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2164.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	760	754	759	754	754	72
15°	732	726	731	727	728	207
25°	678	672	676	669	670	312
35°	600	596	598	591	594	375
45°	503	502	502	495	497	388
55°	393	394	392	386	389	352
65°	276	273	271	268	269	273
75°	152	150	147	145	146	161
85°	41	41	39	37	38	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	758.9	758.9	758.9	758.9	758.9
2.5°	763.7	757.0	760.8	757.0	753.1
5°	759.9	754.1	758.9	754.1	754.1
7.5°	756.0	750.2	754.1	749.2	750.2
10°	750.2	744.4	748.3	744.4	745.4
12.5°	742.5	735.7	740.6	736.7	736.7
15°	731.9	726.1	730.9	727.0	728.0
17.5°	720.3	714.5	720.3	715.5	715.5
20°	707.7	701.9	707.7	701.9	702.9
22.5°	693.2	688.4	692.3	685.5	686.5
25°	677.8	672.0	675.9	669.1	670.1
27.5°	659.5	654.6	658.5	651.7	652.7
30°	641.1	636.3	640.1	632.4	634.4
32.5°	620.8	616.0	618.9	613.1	615.0
35°	599.6	595.7	597.7	590.9	593.8
37.5°	576.4	573.5	576.4	568.7	570.6
40°	552.3	550.3	553.2	545.5	546.5
42.5°	529.1	526.2	529.1	521.4	522.3
45°	503.0	502.1	502.1	495.3	497.2
47.5°	477.0	476.0	476.0	469.2	471.2
50°	449.9	449.9	449.0	442.2	444.1
52.5°	421.9	421.9	421.0	415.2	418.1
55°	393.0	393.9	392.0	386.2	389.1
57.5°	365.0	365.0	363.0	358.2	360.1
60°	336.0	335.0	333.1	328.3	330.2
62.5°	307.0	305.1	302.2	298.3	300.3
65°	276.1	273.2	271.3	268.4	269.4
67.5°	246.2	242.3	239.5	235.6	237.5
70°	213.4	210.5	207.6	204.7	206.6
72.5°	182.5	179.6	176.7	174.8	175.7
75°	151.6	149.7	146.8	144.8	145.8
77.5°	122.6	119.7	118.8	115.9	116.8
80°	92.7	91.7	90.8	87.9	88.8
82.5°	65.7	65.7	63.7	61.8	62.8
85°	40.6	40.6	38.6	36.7	37.7
87.5°	17.4	16.4	16.4	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)