

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: P395162

Luminaire Tested: **2FSN6-SL1-CA08-L8SCT3-4000K-MID**

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: P395162  
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-L8SCT3-4000K-MID  
Description: 2FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 4000K LEDS AND CA08 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1751.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 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

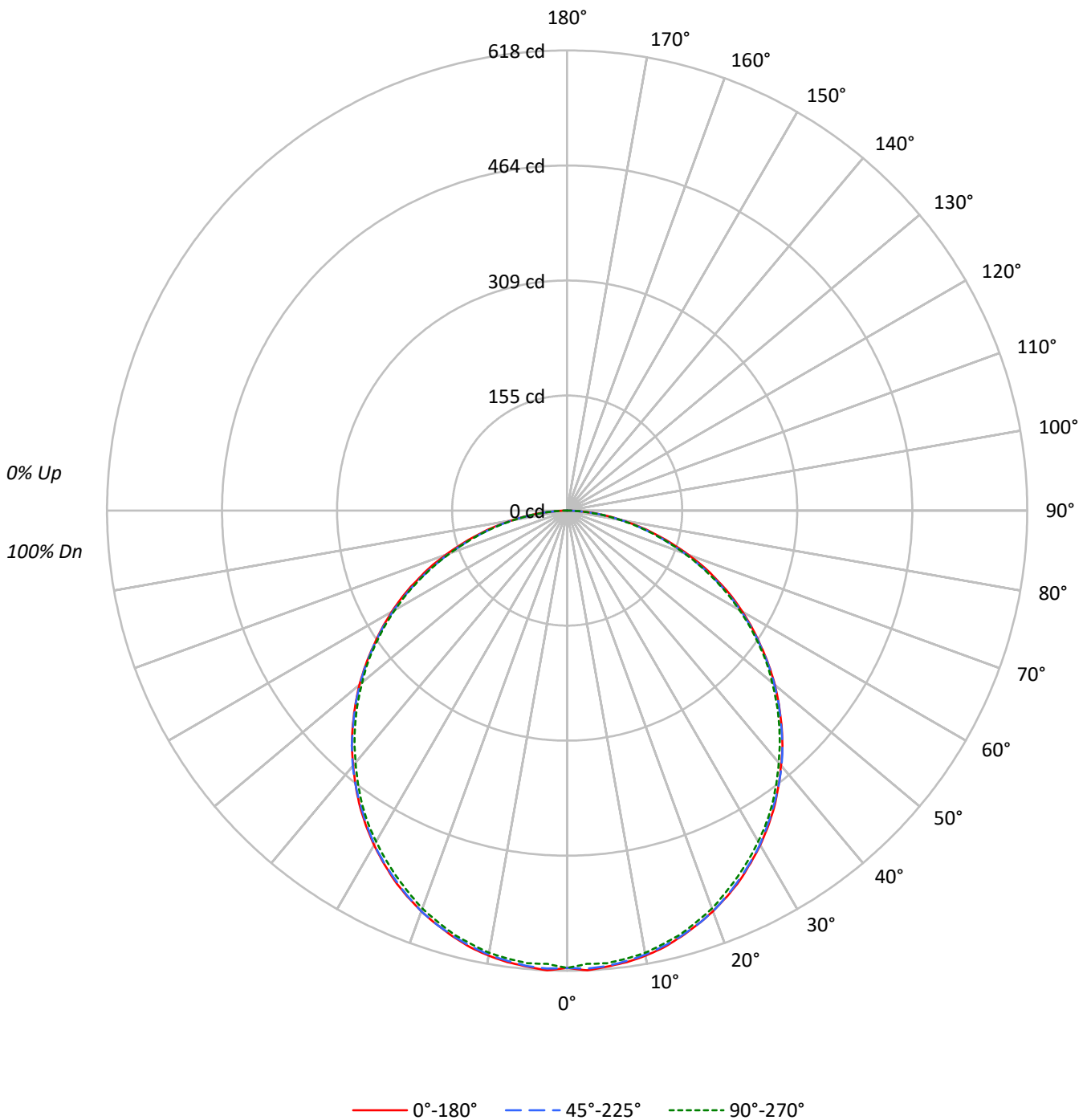
Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6610	6610	6610
5°	6643	6635	6593
10°	6634	6618	6592
15°	6599	6590	6565
20°	6560	6560	6515
25°	6513	6495	6440
30°	6448	6438	6380
35°	6376	6355	6314
40°	6280	6291	6213
45°	6196	6185	6124
50°	6097	6084	6018
55°	5968	5953	5908
60°	5853	5802	5752
65°	5690	5591	5552
70°	5435	5287	5262
75°	5103	4941	4907
80°	4649	4550	4457
85°	4051	3866	3767



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.1	3.3
10°-20°	166.3	9.5
20°-30°	250.9	14.3
30°-40°	301.3	17.2
40°-50°	312.1	17.8
50°-60°	282.7	16.1
60°-70°	217.0	12.4
70°-80°	126.5	7.2
80°-90°	36.1	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°	475.3	27.1
0°-40°	776.6	44.4
0°-60°	1371.5	78.3
0°-90°	1751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1751.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	615	610	614	610	610	58
15°	592	588	591	588	589	167
25°	548	544	547	541	542	253
35°	485	482	484	478	480	303
45°	407	406	406	401	402	314
55°	318	319	317	312	315	285
65°	223	221	220	217	218	221
75°	123	121	119	117	118	130
85°	33	33	31	30	30	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	614.1	614.1	614.1	614.1	614.1
2.5°	618.0	612.5	615.6	612.5	609.4
5°	614.8	610.2	614.1	610.2	610.2
7.5°	611.7	607.0	610.2	606.3	607.0
10°	607.0	602.3	605.5	602.3	603.1
12.5°	600.8	595.3	599.2	596.1	596.1
15°	592.2	587.5	591.4	588.3	589.1
17.5°	582.8	578.1	582.8	578.9	578.9
20°	572.7	568.0	572.7	568.0	568.8
22.5°	560.9	557.0	560.2	554.7	555.5
25°	548.4	543.8	546.9	541.4	542.2
27.5°	533.6	529.7	532.8	527.3	528.1
30°	518.8	514.8	518.0	511.7	513.3
32.5°	502.3	498.4	500.8	496.1	497.7
35°	485.2	482.0	483.6	478.1	480.5
37.5°	466.4	464.1	466.4	460.2	461.7
40°	446.9	445.3	447.7	441.4	442.2
42.5°	428.1	425.8	428.1	421.9	422.7
45°	407.0	406.3	406.3	400.8	402.3
47.5°	385.9	385.2	385.2	379.7	381.3
50°	364.1	364.1	363.3	357.8	359.4
52.5°	341.4	341.4	340.6	335.9	338.3
55°	318.0	318.8	317.2	312.5	314.8
57.5°	295.3	295.3	293.8	289.8	291.4
60°	271.9	271.1	269.5	265.6	267.2
62.5°	248.4	246.9	244.5	241.4	243.0
65°	223.4	221.1	219.5	217.2	218.0
67.5°	199.2	196.1	193.8	190.6	192.2
70°	172.7	170.3	168.0	165.6	167.2
72.5°	147.7	145.3	143.0	141.4	142.2
75°	122.7	121.1	118.8	117.2	118.0
77.5°	99.2	96.9	96.1	93.8	94.5
80°	75.0	74.2	73.4	71.1	71.9
82.5°	53.1	53.1	51.6	50.0	50.8
85°	32.8	32.8	31.3	29.7	30.5
87.5°	14.1	13.3	13.3	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)