

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: P395159

Luminaire Tested: **2FSN6-SL1-CA08-L8SCT3-3500K-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: P395159  
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-L8SCT3-3500K-MID  
Description: 2FT FSN LINEAR LED FIXTURE WITH MID 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: 1725.0 lumens  
Efficiency: N/A  
Efficacy: 107.1 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

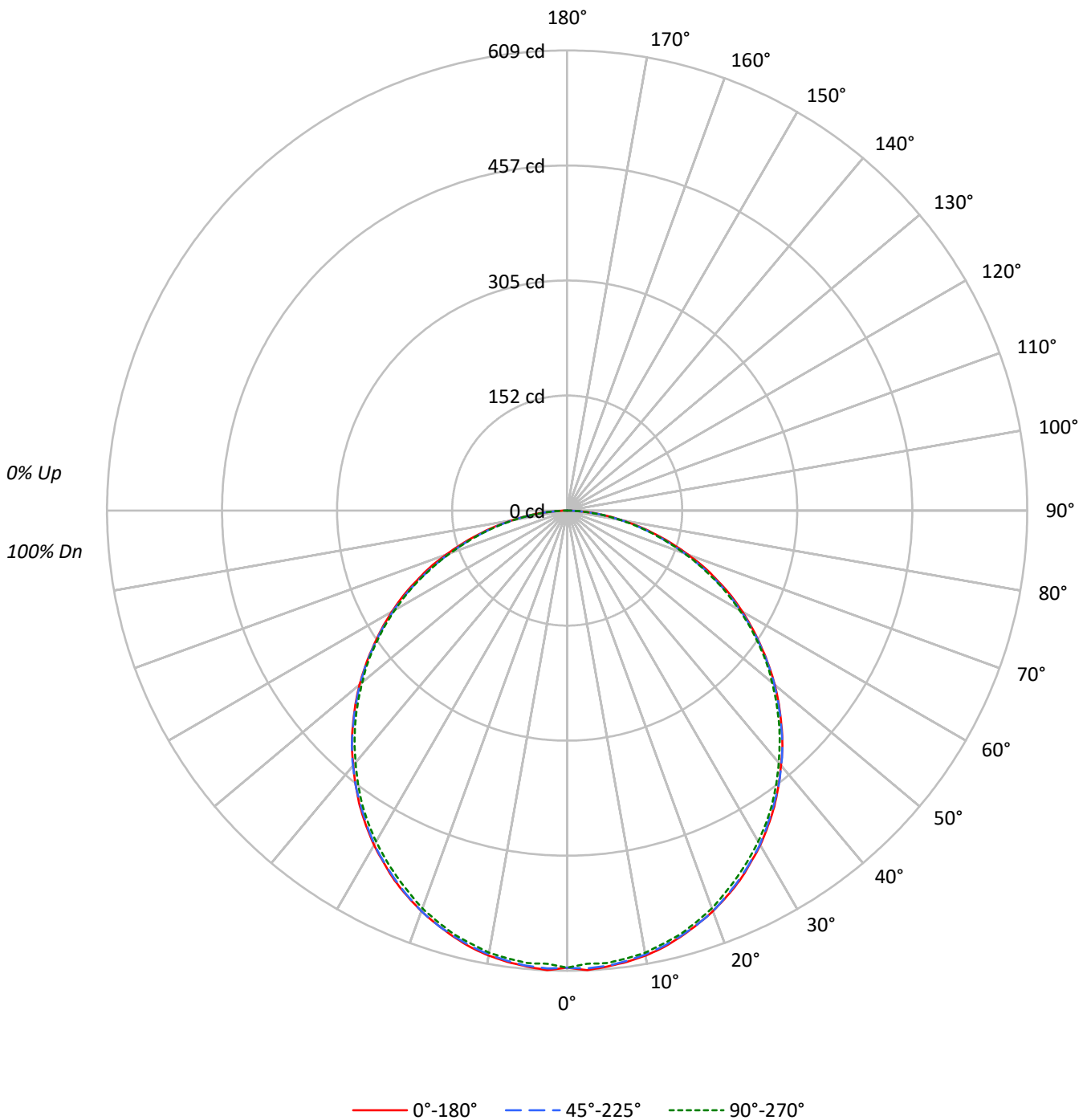
Input Watts (W): 16.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6511	6511	6511
5°	6545	6536	6495
10°	6536	6520	6495
15°	6501	6492	6467
20°	6463	6463	6418
25°	6417	6399	6343
30°	6353	6343	6285
35°	6281	6260	6219
40°	6185	6197	6121
45°	6104	6092	6034
50°	6007	5993	5928
55°	5878	5864	5821
60°	5765	5716	5666
65°	5606	5509	5468
70°	5353	5209	5183
75°	5024	4866	4833
80°	4581	4482	4389
85°	3989	3804	3705



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.3	3.3
10°-20°	163.8	9.5
20°-30°	247.2	14.3
30°-40°	296.8	17.2
40°-50°	307.4	17.8
50°-60°	278.5	16.1
60°-70°	213.8	12.4
70°-80°	124.6	7.2
80°-90°	35.5	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°	468.3	27.1
0°-40°	765.1	44.4
0°-60°	1351.1	78.3
0°-90°	1725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1725.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	605	605	605	605	605	
5°	606	601	605	601	601	58
15°	583	579	583	580	580	165
25°	540	536	539	533	534	249
35°	478	475	476	471	473	299
45°	401	400	400	395	396	309
55°	313	314	312	308	310	280
65°	220	218	216	214	215	218
75°	121	119	117	115	116	128
85°	32	32	31	29	30	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	604.9	604.9	604.9	604.9	604.9
2.5°	608.8	603.4	606.5	603.4	600.3
5°	605.7	601.1	604.9	601.1	601.1
7.5°	602.6	598.0	601.1	597.3	598.0
10°	598.0	593.4	596.5	593.4	594.2
12.5°	591.9	586.5	590.3	587.2	587.2
15°	583.4	578.8	582.6	579.5	580.3
17.5°	574.2	569.5	574.2	570.3	570.3
20°	564.2	559.5	564.2	559.5	560.3
22.5°	552.6	548.8	551.8	546.5	547.2
25°	540.3	535.7	538.8	533.4	534.1
27.5°	525.7	521.8	524.9	519.5	520.3
30°	511.1	507.2	510.3	504.1	505.7
32.5°	494.9	491.0	493.3	488.7	490.3
35°	478.0	474.9	476.4	471.0	473.3
37.5°	459.5	457.2	459.5	453.3	454.9
40°	440.2	438.7	441.0	434.9	435.6
42.5°	421.8	419.5	421.8	415.6	416.4
45°	401.0	400.2	400.2	394.8	396.4
47.5°	380.2	379.4	379.4	374.1	375.6
50°	358.7	358.7	357.9	352.5	354.0
52.5°	336.3	336.3	335.6	331.0	333.3
55°	313.2	314.0	312.5	307.9	310.2
57.5°	290.9	290.9	289.4	285.5	287.1
60°	267.8	267.1	265.5	261.7	263.2
62.5°	244.7	243.2	240.9	237.8	239.4
65°	220.1	217.8	216.3	214.0	214.7
67.5°	196.3	193.2	190.9	187.8	189.3
70°	170.1	167.8	165.5	163.2	164.7
72.5°	145.5	143.2	140.8	139.3	140.1
75°	120.8	119.3	117.0	115.4	116.2
77.5°	97.7	95.4	94.7	92.4	93.1
80°	73.9	73.1	72.3	70.0	70.8
82.5°	52.3	52.3	50.8	49.3	50.0
85°	32.3	32.3	30.8	29.2	30.0
87.5°	13.9	13.1	13.1	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)