

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: P395171

Luminaire Tested: **2FSN6-SL1-CA125-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: P395171
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-CA125-L8SCT3-4000K-MID
Description: 2FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 4000K LEDS AND CA125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1748.0 lumens
Efficiency: N/A
Efficacy: 109.3 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

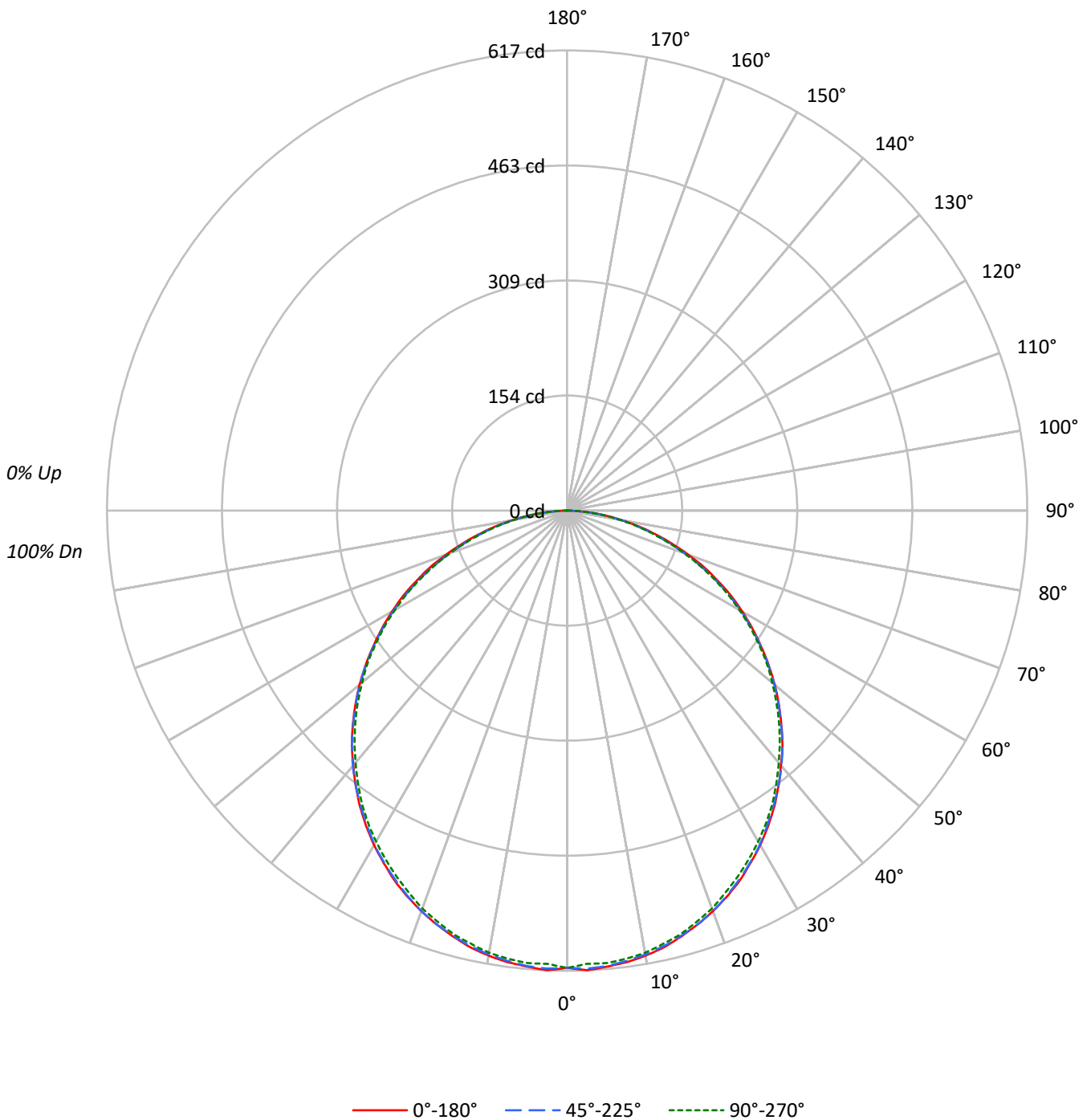
Input Watts (W): 16
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6598	6598	6598
5°	6632	6623	6581
10°	6624	6606	6581
15°	6588	6579	6554
20°	6549	6549	6504
25°	6502	6483	6429
30°	6437	6427	6369
35°	6364	6344	6302
40°	6268	6280	6202
45°	6185	6174	6115
50°	6085	6074	6008
55°	5956	5941	5898
60°	5843	5793	5741
65°	5682	5583	5542
70°	5426	5278	5253
75°	5090	4928	4899
80°	4643	4544	4451
85°	4051	3853	3754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	3.3
10°-20°	166.0	9.5
20°-30°	250.5	14.3
30°-40°	300.8	17.2
40°-50°	311.6	17.8
50°-60°	282.2	16.1
60°-70°	216.6	12.4
70°-80°	126.3	7.2
80°-90°	36.0	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°	474.5	27.1
0°-40°	775.3	44.4
0°-60°	1369.1	78.3
0°-90°	1748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	613	613	613	613	613	
5°	614	609	613	609	609	58
15°	591	586	590	587	588	167
25°	548	543	546	540	541	252
35°	484	481	483	477	480	303
45°	406	406	406	400	402	313
55°	317	318	317	312	314	284
65°	223	221	219	217	218	221
75°	122	121	118	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°	613.0	613.0	613.0	613.0	613.0
2.5°	616.9	611.5	614.6	611.5	608.3
5°	613.8	609.1	613.0	609.1	609.1
7.5°	610.7	606.0	609.1	605.2	606.0
10°	606.0	601.3	604.4	601.3	602.1
12.5°	599.8	594.3	598.2	595.1	595.1
15°	591.2	586.5	590.4	587.3	588.1
17.5°	581.8	577.1	581.8	577.9	577.9
20°	571.7	567.0	571.7	567.0	567.8
22.5°	560.0	556.1	559.2	553.7	554.5
25°	547.5	542.8	545.9	540.5	541.3
27.5°	532.7	528.8	531.9	526.4	527.2
30°	517.9	514.0	517.1	510.8	512.4
32.5°	501.5	497.6	499.9	495.2	496.8
35°	484.3	481.2	482.8	477.3	479.6
37.5°	465.6	463.3	465.6	459.4	460.9
40°	446.1	444.6	446.9	440.7	441.4
42.5°	427.4	425.1	427.4	421.2	421.9
45°	406.3	405.6	405.6	400.1	401.7
47.5°	385.3	384.5	384.5	379.0	380.6
50°	363.4	363.4	362.7	357.2	358.8
52.5°	340.8	340.8	340.0	335.4	337.7
55°	317.4	318.2	316.6	312.0	314.3
57.5°	294.8	294.8	293.2	289.3	290.9
60°	271.4	270.6	269.1	265.2	266.7
62.5°	248.0	246.5	244.1	241.0	242.6
65°	223.1	220.7	219.2	216.8	217.6
67.5°	198.9	195.8	193.4	190.3	191.9
70°	172.4	170.0	167.7	165.3	166.9
72.5°	147.4	145.1	142.7	141.2	141.9
75°	122.4	120.9	118.5	117.0	117.8
77.5°	99.0	96.7	95.9	93.6	94.4
80°	74.9	74.1	73.3	71.0	71.8
82.5°	53.0	53.0	51.5	49.9	50.7
85°	32.8	32.8	31.2	29.6	30.4
87.5°	14.0	13.3	13.3	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)