

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: P395168

Luminaire Tested: **2FSN6-SL1-CA125-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: P395168
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-L8SCT3-3500K-MID
Description: 2FT FSN LINEAR LED FIXTURE WITH MID 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: 1722.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

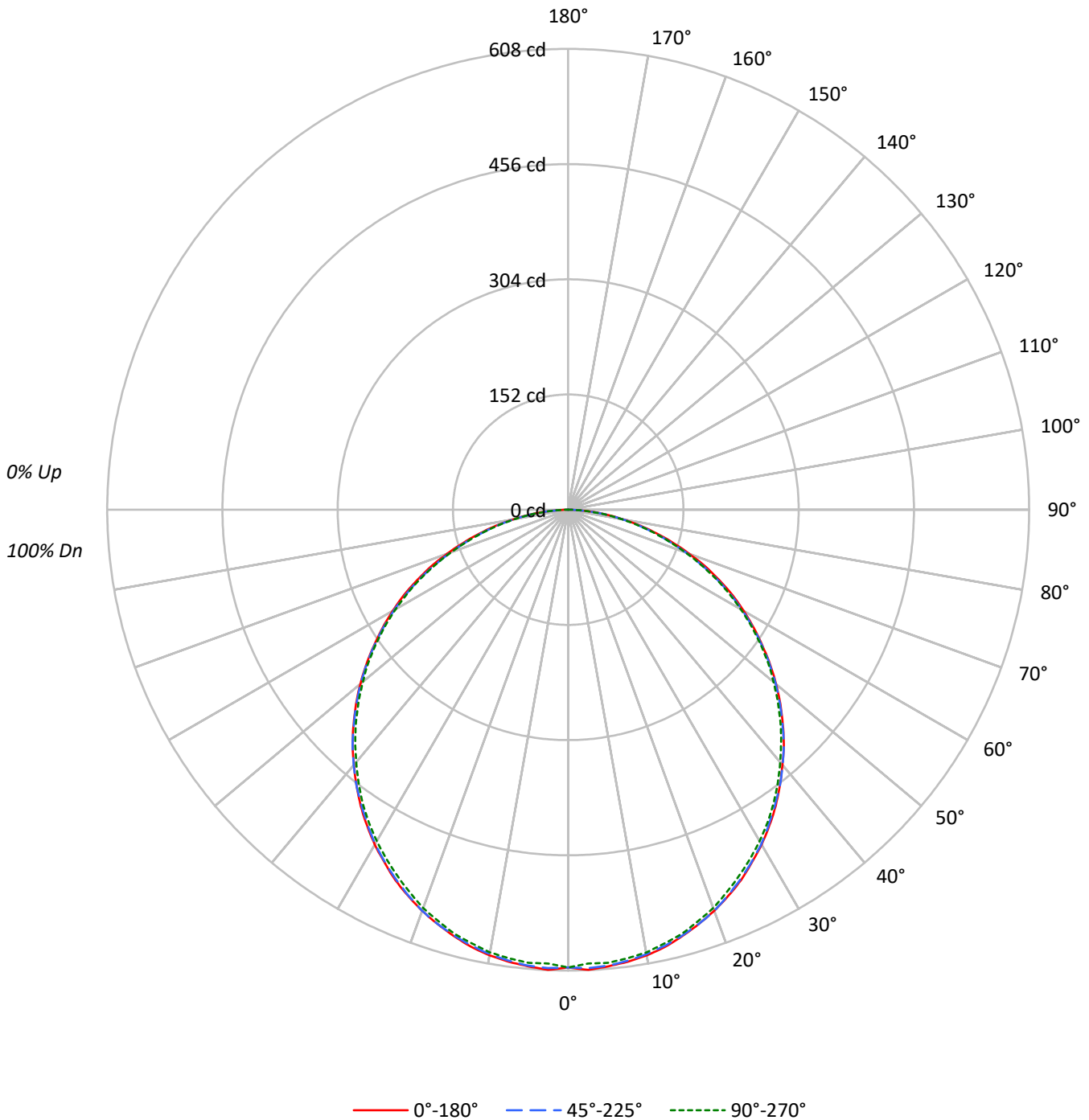
Input Watts (W): 16.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6500	6500	6500
5°	6534	6525	6484
10°	6525	6508	6483
15°	6490	6481	6456
20°	6451	6451	6407
25°	6406	6387	6333
30°	6341	6331	6274
35°	6269	6250	6209
40°	6176	6185	6111
45°	6094	6081	6024
50°	5995	5983	5918
55°	5868	5853	5810
60°	5757	5707	5658
65°	5596	5499	5461
70°	5344	5199	5174
75°	5016	4858	4824
80°	4575	4475	4382
85°	3989	3792	3705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	3.3
10°-20°	163.6	9.5
20°-30°	246.7	14.3
30°-40°	296.3	17.2
40°-50°	306.9	17.8
50°-60°	278.0	16.1
60°-70°	213.4	12.4
70°-80°	124.4	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°	467.5	27.1
0°-40°	763.8	44.4
0°-60°	1348.7	78.3
0°-90°	1722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	605	600	604	600	600	57
15°	582	578	582	578	579	164
25°	539	535	538	532	533	248
35°	477	474	476	470	472	298
45°	400	400	400	394	396	309
55°	313	314	312	307	310	280
65°	220	217	216	214	214	217
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°	603.9	603.9	603.9	603.9	603.9
2.5°	607.7	602.4	605.4	602.4	599.3
5°	604.7	600.1	603.9	600.1	600.1
7.5°	601.6	597.0	600.1	596.2	597.0
10°	597.0	592.4	595.4	592.4	593.1
12.5°	590.8	585.5	589.3	586.2	586.2
15°	582.4	577.8	581.6	578.5	579.3
17.5°	573.2	568.6	573.2	569.3	569.3
20°	563.2	558.6	563.2	558.6	559.3
22.5°	551.7	547.8	550.9	545.5	546.3
25°	539.4	534.7	537.8	532.4	533.2
27.5°	524.8	520.9	524.0	518.6	519.4
30°	510.2	506.3	509.4	503.2	504.8
32.5°	494.0	490.2	492.5	487.9	489.4
35°	477.1	474.1	475.6	470.2	472.5
37.5°	458.7	456.4	458.7	452.5	454.1
40°	439.5	437.9	440.2	434.1	434.9
42.5°	421.0	418.7	421.0	414.9	415.7
45°	400.3	399.5	399.5	394.1	395.7
47.5°	379.5	378.8	378.8	373.4	374.9
50°	358.0	358.0	357.3	351.9	353.4
52.5°	335.8	335.8	335.0	330.4	332.7
55°	312.7	313.5	311.9	307.3	309.6
57.5°	290.4	290.4	288.9	285.0	286.6
60°	267.4	266.6	265.1	261.2	262.8
62.5°	244.3	242.8	240.5	237.4	238.9
65°	219.7	217.4	215.9	213.6	214.4
67.5°	195.9	192.8	190.5	187.5	189.0
70°	169.8	167.5	165.2	162.9	164.4
72.5°	145.2	142.9	140.6	139.1	139.8
75°	120.6	119.1	116.8	115.2	116.0
77.5°	97.6	95.3	94.5	92.2	93.0
80°	73.8	73.0	72.2	69.9	70.7
82.5°	52.2	52.2	50.7	49.2	49.9
85°	32.3	32.3	30.7	29.2	30.0
87.5°	13.8	13.1	13.1	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)