

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: P395209

Luminaire Tested: **4FSN6-SL1-CA125-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: P395209
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-CA125-L8SCT3-3000K-LO
Description: 4FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 3000K LEDS AND CA125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2151.0 lumens
Efficiency: N/A
Efficacy: 117.5 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

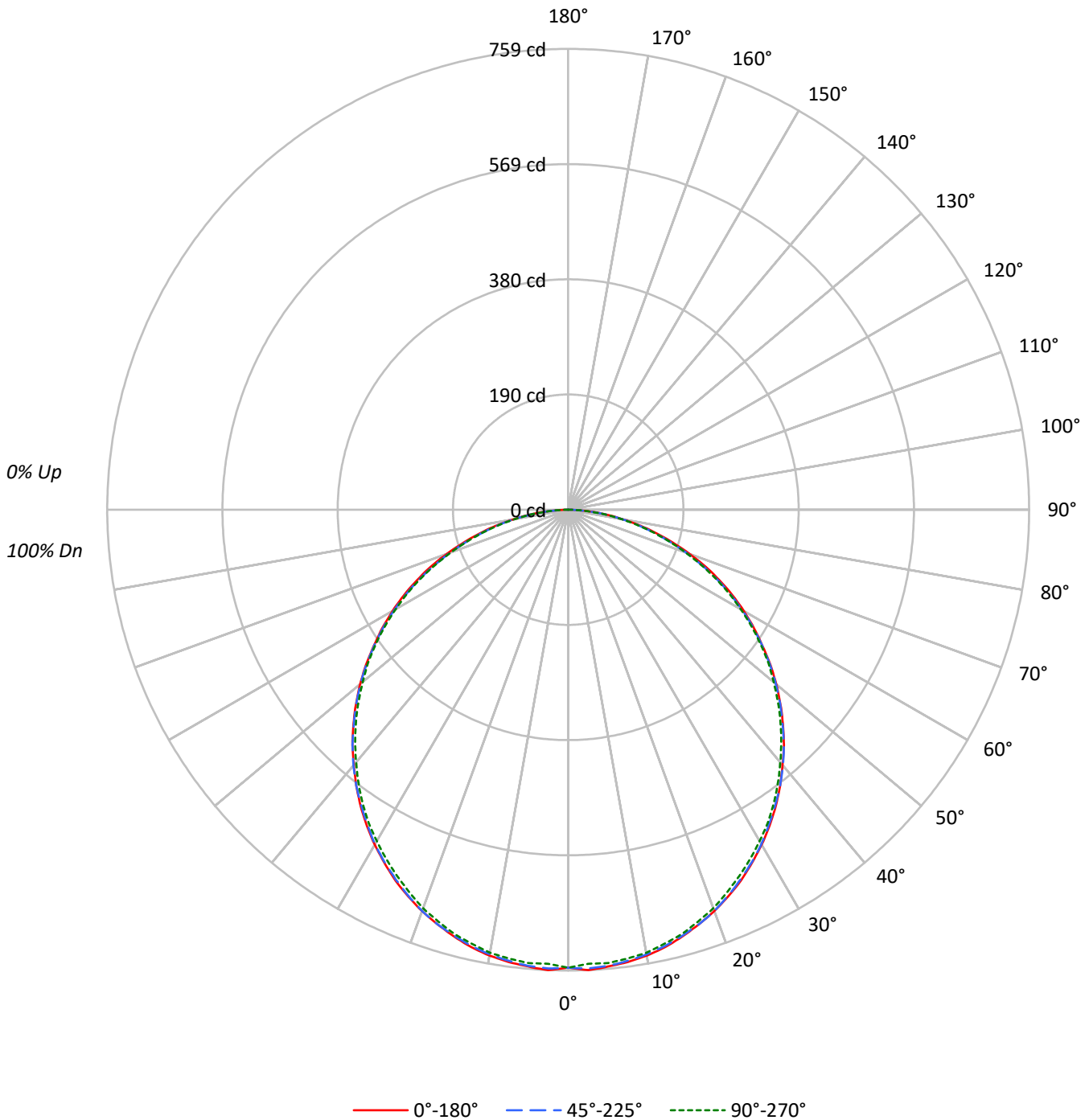
Input Watts (W): 18.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4060	4060	4060
5°	4081	4075	4049
10°	4075	4065	4049
15°	4053	4048	4032
20°	4029	4029	4002
25°	4001	3989	3955
30°	3961	3954	3918
35°	3916	3903	3878
40°	3857	3863	3816
45°	3806	3799	3762
50°	3744	3737	3697
55°	3665	3656	3629
60°	3595	3564	3533
65°	3496	3435	3410
70°	3338	3246	3232
75°	3134	3034	3013
80°	2854	2796	2737
85°	2489	2371	2309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	3.3
10°-20°	204.3	9.5
20°-30°	308.2	14.3
30°-40°	370.2	17.2
40°-50°	383.4	17.8
50°-60°	347.3	16.1
60°-70°	266.6	12.4
70°-80°	155.4	7.2
80°-90°	44.3	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°	583.9	27.1
0°-40°	954.1	44.4
0°-60°	1684.7	78.3
0°-90°	2151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	755	750	754	750	750	72
15°	728	722	726	723	724	205
25°	674	668	672	665	666	310
35°	596	592	594	587	590	373
45°	500	499	499	492	494	386
55°	391	392	390	384	387	350
65°	274	272	270	267	268	272
75°	151	149	146	144	145	160
85°	40	40	38	36	37	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	754.3	754.3	754.3	754.3	754.3
2.5°	759.1	752.4	756.3	752.4	748.6
5°	755.3	749.5	754.3	749.5	749.5
7.5°	751.5	745.7	749.5	744.7	745.7
10°	745.7	739.9	743.8	739.9	740.9
12.5°	738.0	731.3	736.1	732.3	732.3
15°	727.5	721.7	726.5	722.7	723.6
17.5°	716.0	710.2	716.0	711.2	711.2
20°	703.5	697.7	703.5	697.7	698.7
22.5°	689.1	684.3	688.1	681.4	682.4
25°	673.7	668.0	671.8	665.1	666.0
27.5°	655.5	650.7	654.5	647.8	648.8
30°	637.3	632.5	636.3	628.6	630.5
32.5°	617.1	612.3	615.2	609.4	611.3
35°	596.0	592.2	594.1	587.4	590.2
37.5°	573.0	570.1	573.0	565.3	567.2
40°	549.0	547.0	549.9	542.2	543.2
42.5°	525.9	523.1	525.9	518.3	519.2
45°	500.0	499.1	499.1	492.3	494.3
47.5°	474.1	473.1	473.1	466.4	468.3
50°	447.2	447.2	446.3	439.6	441.5
52.5°	419.4	419.4	418.4	412.7	415.6
55°	390.6	391.6	389.6	383.9	386.8
57.5°	362.8	362.8	360.9	356.1	358.0
60°	334.0	333.0	331.1	326.3	328.2
62.5°	305.2	303.3	300.4	296.6	298.5
65°	274.5	271.6	269.7	266.8	267.8
67.5°	244.7	240.9	238.0	234.2	236.1
70°	212.1	209.2	206.3	203.5	205.4
72.5°	181.4	178.5	175.6	173.7	174.7
75°	150.7	148.8	145.9	144.0	144.9
77.5°	121.9	119.0	118.0	115.2	116.1
80°	92.1	91.2	90.2	87.3	88.3
82.5°	65.3	65.3	63.3	61.4	62.4
85°	40.3	40.3	38.4	36.5	37.4
87.5°	17.3	16.3	16.3	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)