

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: P395239

Luminaire Tested: **4FSN6-SL1-CP250-L8SCT3-3500K-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: P395239
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-CP250-L8SCT3-3500K-LO
Description: 4FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 3500K LEDS AND CP250 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2074.0 lumens
Efficiency: N/A
Efficacy: 113.3 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

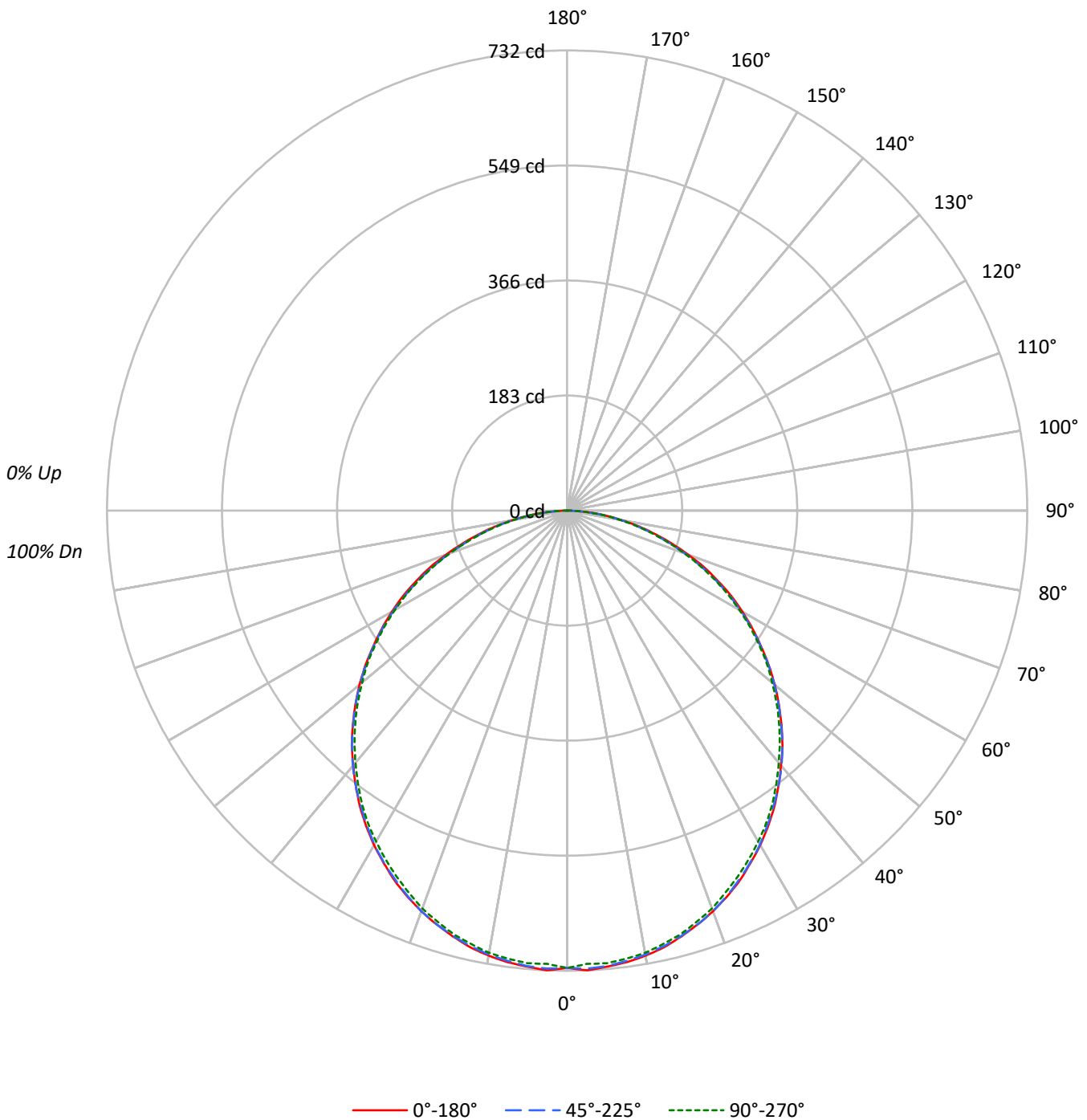
Input Watts (W): 18.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3914	3914	3914
5°	3935	3929	3904
10°	3929	3919	3904
15°	3908	3903	3887
20°	3885	3885	3859
25°	3858	3847	3814
30°	3818	3813	3778
35°	3776	3763	3739
40°	3719	3725	3680
45°	3669	3663	3628
50°	3610	3603	3564
55°	3534	3525	3499
60°	3466	3437	3407
65°	3371	3311	3288
70°	3218	3131	3116
75°	3021	2926	2905
80°	2752	2696	2638
85°	2402	2285	2229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	3.3
10°-20°	197.0	9.5
20°-30°	297.2	14.3
30°-40°	356.9	17.2
40°-50°	369.6	17.8
50°-60°	334.9	16.1
60°-70°	257.0	12.4
70°-80°	149.8	7.2
80°-90°	42.7	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°	563.0	27.1
0°-40°	919.9	44.4
0°-60°	1624.4	78.3
0°-90°	2074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	728	723	727	723	723	69
15°	701	696	700	697	698	198
25°	650	644	648	641	642	299
35°	575	571	573	566	569	359
45°	482	481	481	475	477	372
55°	377	378	376	370	373	337
65°	265	262	260	257	258	262
75°	145	143	141	139	140	154
85°	39	39	37	35	36	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	727.3	727.3	727.3	727.3	727.3
2.5°	732.0	725.5	729.2	725.5	721.8
5°	728.3	722.7	727.3	722.7	722.7
7.5°	724.6	719.0	722.7	718.1	719.0
10°	719.0	713.5	717.2	713.5	714.4
12.5°	711.6	705.1	709.8	706.1	706.1
15°	701.4	695.9	700.5	696.8	697.7
17.5°	690.3	684.8	690.3	685.7	685.7
20°	678.3	672.7	678.3	672.7	673.7
22.5°	664.4	659.8	663.5	657.0	657.9
25°	649.6	644.1	647.8	641.3	642.2
27.5°	632.0	627.4	631.1	624.6	625.5
30°	614.4	609.8	613.5	606.1	608.0
32.5°	595.0	590.4	593.2	587.6	589.5
35°	574.7	571.0	572.8	566.3	569.1
37.5°	552.4	549.7	552.4	545.0	546.9
40°	529.3	527.5	530.2	522.8	523.8
42.5°	507.1	504.3	507.1	499.7	500.6
45°	482.1	481.2	481.2	474.7	476.6
47.5°	457.1	456.2	456.2	449.7	451.6
50°	431.2	431.2	430.3	423.8	425.7
52.5°	404.4	404.4	403.5	397.9	400.7
55°	376.6	377.6	375.7	370.1	372.9
57.5°	349.8	349.8	347.9	343.3	345.2
60°	322.0	321.1	319.3	314.6	316.5
62.5°	294.3	292.4	289.6	285.9	287.8
65°	264.7	261.9	260.0	257.3	258.2
67.5°	236.0	232.3	229.5	225.8	227.6
70°	204.5	201.7	199.0	196.2	198.0
72.5°	174.9	172.1	169.3	167.5	168.4
75°	145.3	143.4	140.7	138.8	139.7
77.5°	117.5	114.7	113.8	111.0	112.0
80°	88.8	87.9	87.0	84.2	85.1
82.5°	62.9	62.9	61.1	59.2	60.1
85°	38.9	38.9	37.0	35.2	36.1
87.5°	16.7	15.7	15.7	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)