

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: P395230

Luminaire Tested: **4FSN6-SL1-CP187-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: P395230
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-CP187-L8SCT3-3500K-LO
Description: 4FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 3500K LEDS AND CP187 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2110.0 lumens
Efficiency: N/A
Efficacy: 115.3 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

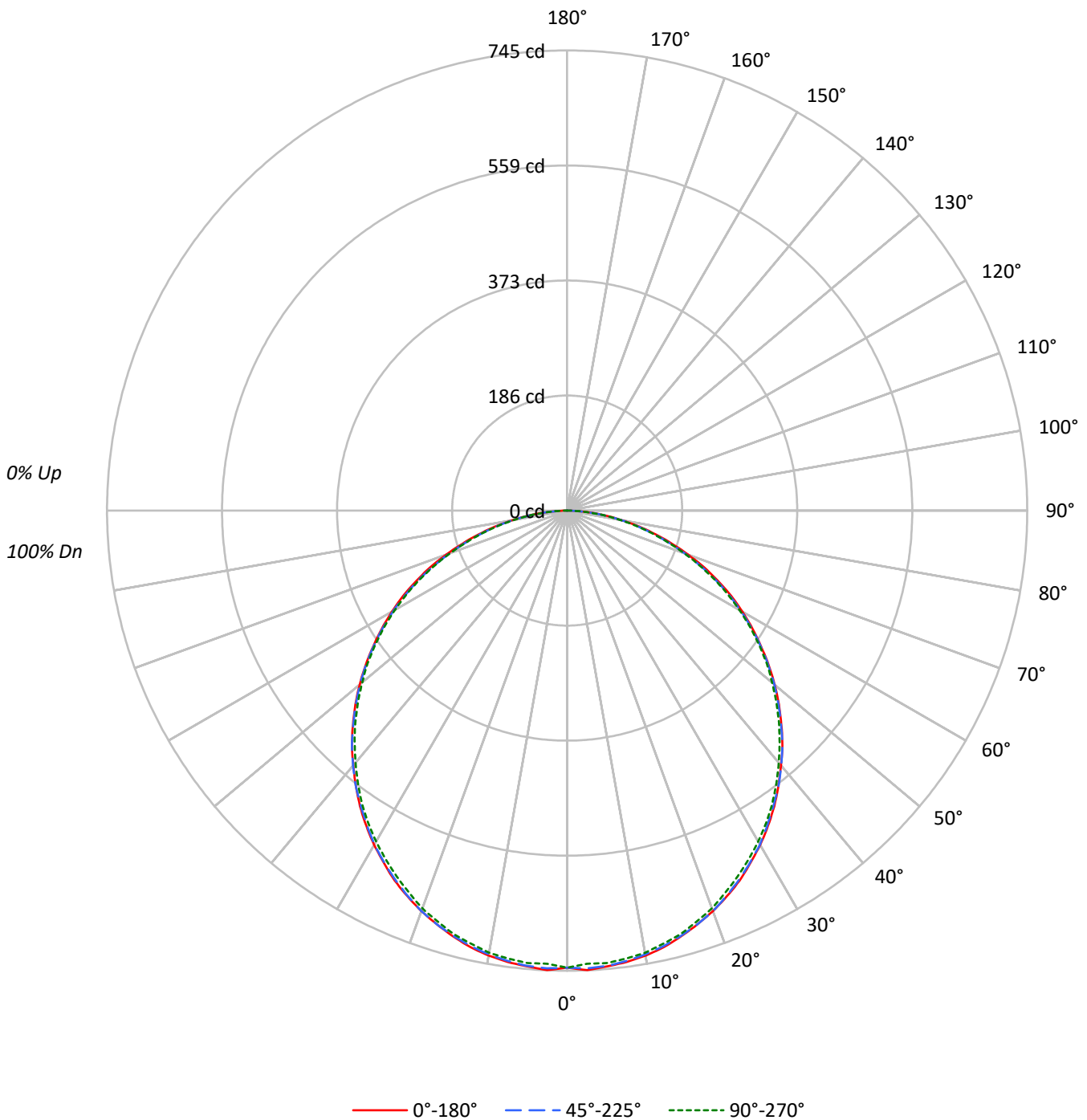
Input Watts (W): 18.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3983	3983	3983
5°	4003	3998	3972
10°	3998	3987	3972
15°	3976	3971	3955
20°	3952	3952	3926
25°	3925	3913	3880
30°	3885	3879	3844
35°	3841	3828	3804
40°	3783	3790	3744
45°	3733	3726	3690
50°	3673	3666	3626
55°	3596	3586	3560
60°	3526	3496	3466
65°	3428	3368	3345
70°	3275	3185	3171
75°	3073	2976	2957
80°	2802	2743	2684
85°	2439	2328	2266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.3
10°-20°	200.4	9.5
20°-30°	302.3	14.3
30°-40°	363.1	17.2
40°-50°	376.1	17.8
50°-60°	340.7	16.1
60°-70°	261.5	12.4
70°-80°	152.4	7.2
80°-90°	43.5	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°	572.8	27.1
0°-40°	935.9	44.4
0°-60°	1652.6	78.3
0°-90°	2110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2110.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	741	735	740	735	735	70
15°	714	708	713	709	710	201
25°	661	655	659	652	653	304
35°	585	581	583	576	579	365
45°	490	490	490	483	485	378
55°	383	384	382	377	379	343
65°	269	266	264	262	263	266
75°	148	146	143	141	142	157
85°	40	40	38	36	37	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	740.0	740.0	740.0	740.0	740.0
2.5°	744.7	738.1	741.8	738.1	734.3
5°	740.9	735.3	740.0	735.3	735.3
7.5°	737.1	731.5	735.3	730.6	731.5
10°	731.5	725.8	729.6	725.8	726.8
12.5°	724.0	717.4	722.1	718.3	718.3
15°	713.6	708.0	712.7	708.9	709.8
17.5°	702.3	696.7	702.3	697.6	697.6
20°	690.1	684.4	690.1	684.4	685.4
22.5°	675.9	671.2	675.0	668.4	669.4
25°	660.9	655.2	659.0	652.4	653.4
27.5°	643.0	638.3	642.1	635.5	636.4
30°	625.1	620.4	624.2	616.6	618.5
32.5°	605.3	600.6	603.5	597.8	599.7
35°	584.6	580.9	582.7	576.2	579.0
37.5°	562.0	559.2	562.0	554.5	556.4
40°	538.5	536.6	539.4	531.9	532.9
42.5°	515.9	513.1	515.9	508.4	509.3
45°	490.5	489.5	489.5	483.0	484.8
47.5°	465.1	464.1	464.1	457.5	459.4
50°	438.7	438.7	437.8	431.2	433.1
52.5°	411.4	411.4	410.5	404.8	407.6
55°	383.2	384.1	382.2	376.6	379.4
57.5°	355.9	355.9	354.0	349.3	351.2
60°	327.6	326.7	324.8	320.1	322.0
62.5°	299.4	297.5	294.7	290.9	292.8
65°	269.2	266.4	264.5	261.7	262.7
67.5°	240.1	236.3	233.5	229.7	231.6
70°	208.1	205.2	202.4	199.6	201.5
72.5°	177.9	175.1	172.3	170.4	171.3
75°	147.8	145.9	143.1	141.2	142.2
77.5°	119.6	116.7	115.8	113.0	113.9
80°	90.4	89.4	88.5	85.7	86.6
82.5°	64.0	64.0	62.1	60.3	61.2
85°	39.5	39.5	37.7	35.8	36.7
87.5°	16.9	16.0	16.0	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)