

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: P395234

Luminaire Tested: **4FSN6-SL1-CP187-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: P395234
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-L8SCT3-4000K-MID
Description: 4FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 4000K LEDS AND CP187 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3144.0 lumens
Efficiency: N/A
Efficacy: 114.3 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

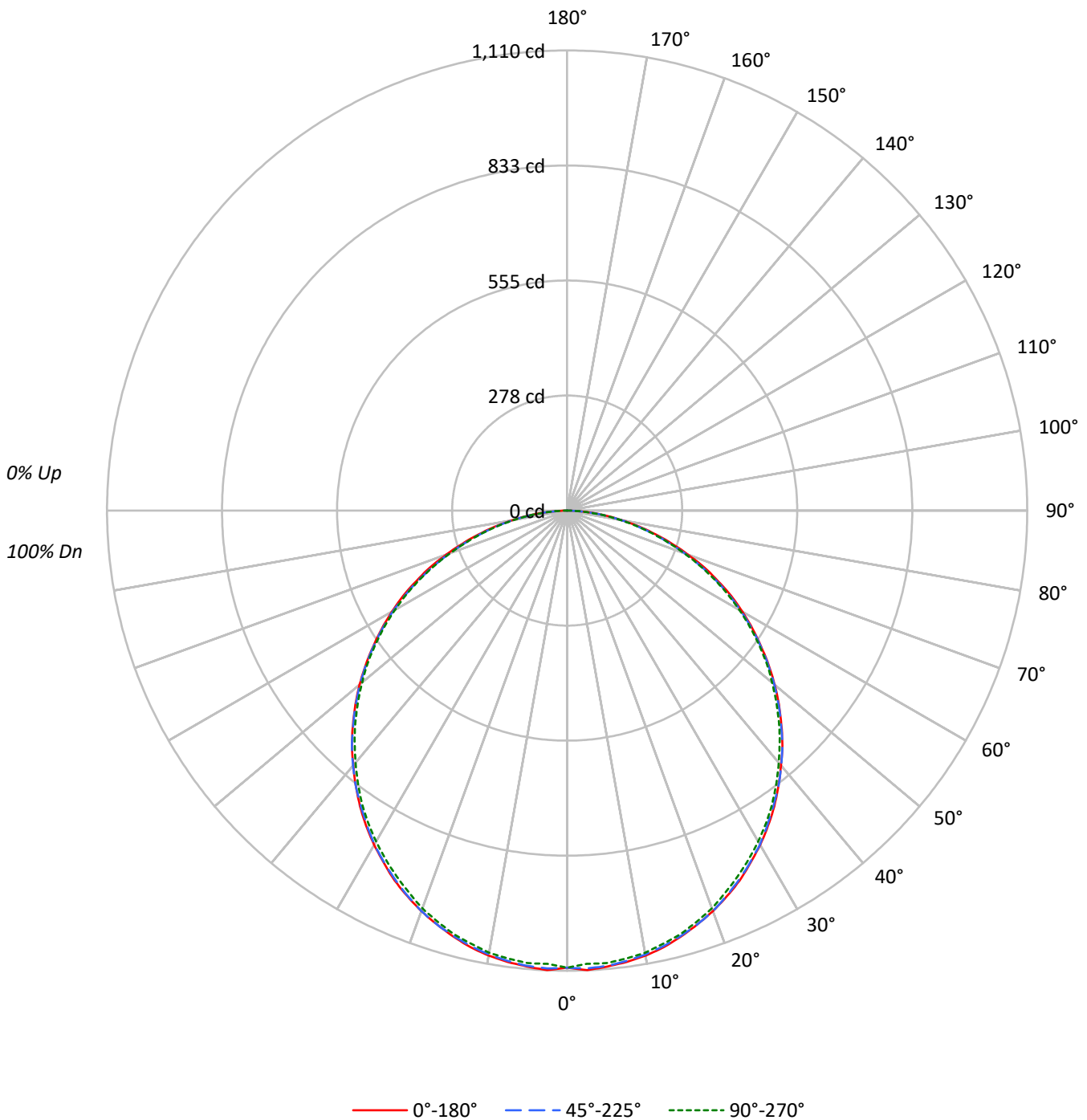
Input Watts (W): 27.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5934	5934	5934
5°	5964	5957	5919
10°	5957	5942	5918
15°	5925	5917	5893
20°	5889	5889	5849
25°	5848	5831	5781
30°	5788	5780	5727
35°	5723	5705	5668
40°	5637	5647	5578
45°	5562	5552	5498
50°	5473	5462	5403
55°	5357	5344	5304
60°	5255	5210	5165
65°	5109	5020	4984
70°	4878	4746	4724
75°	4579	4433	4404
80°	4175	4088	4001
85°	3637	3464	3378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.3
10°-20°	298.6	9.5
20°-30°	450.5	14.3
30°-40°	541.0	17.2
40°-50°	560.3	17.8
50°-60°	507.6	16.1
60°-70°	389.6	12.4
70°-80°	227.1	7.2
80°-90°	64.8	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°	853.5	27.1
0°-40°	1394.5	44.4
0°-60°	2462.5	78.3
0°-90°	3144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1103	1103	1103	1103	1103	
5°	1104	1096	1103	1096	1096	105
15°	1063	1055	1062	1056	1058	300
25°	985	976	982	972	974	453
35°	871	866	868	858	863	545
45°	731	729	729	720	722	564
55°	571	572	570	561	565	511
65°	401	397	394	390	391	397
75°	220	217	213	210	212	234
85°	59	59	56	53	55	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.6	1102.6	1102.6	1102.6	1102.6
2.5°	1109.6	1099.8	1105.4	1099.8	1094.2
5°	1104.0	1095.6	1102.6	1095.6	1095.6
7.5°	1098.4	1090.0	1095.6	1088.6	1090.0
10°	1090.0	1081.5	1087.2	1081.5	1082.9
12.5°	1078.7	1068.9	1075.9	1070.3	1070.3
15°	1063.3	1054.9	1061.9	1056.3	1057.7
17.5°	1046.5	1038.1	1046.5	1039.5	1039.5
20°	1028.2	1019.8	1028.2	1019.8	1021.2
22.5°	1007.2	1000.2	1005.8	996.0	997.4
25°	984.8	976.3	981.9	972.1	973.5
27.5°	958.1	951.1	956.7	946.9	948.3
30°	931.4	924.4	930.0	918.8	921.6
32.5°	902.0	895.0	899.2	890.8	893.6
35°	871.1	865.5	868.3	858.5	862.7
37.5°	837.5	833.3	837.5	826.2	829.0
40°	802.4	799.6	803.8	792.6	794.0
42.5°	768.7	764.5	768.7	757.5	758.9
45°	730.8	729.4	729.4	719.6	722.4
47.5°	693.0	691.6	691.6	681.8	684.6
50°	653.7	653.7	652.3	642.5	645.3
52.5°	613.0	613.0	611.6	603.2	607.4
55°	570.9	572.3	569.5	561.1	565.3
57.5°	530.3	530.3	527.4	520.4	523.2
60°	488.2	486.8	484.0	476.9	479.8
62.5°	446.1	443.3	439.1	433.5	436.3
65°	401.2	397.0	394.2	390.0	391.4
67.5°	357.7	352.1	347.9	342.3	345.1
70°	310.0	305.8	301.6	297.4	300.2
72.5°	265.1	260.9	256.7	253.9	255.3
75°	220.2	217.4	213.2	210.4	211.8
77.5°	178.2	173.9	172.5	168.3	169.7
80°	134.7	133.3	131.9	127.7	129.1
82.5°	95.4	95.4	92.6	89.8	91.2
85°	58.9	58.9	56.1	53.3	54.7
87.5°	25.3	23.8	23.8	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)