

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: P395160

Luminaire Tested: **2FSN6-SL1-CA08-L8SCT3-4000K-HI**

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: P395160
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-CA08-L8SCT3-4000K-HI
Description: 2FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 4000K LEDS AND CA08 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

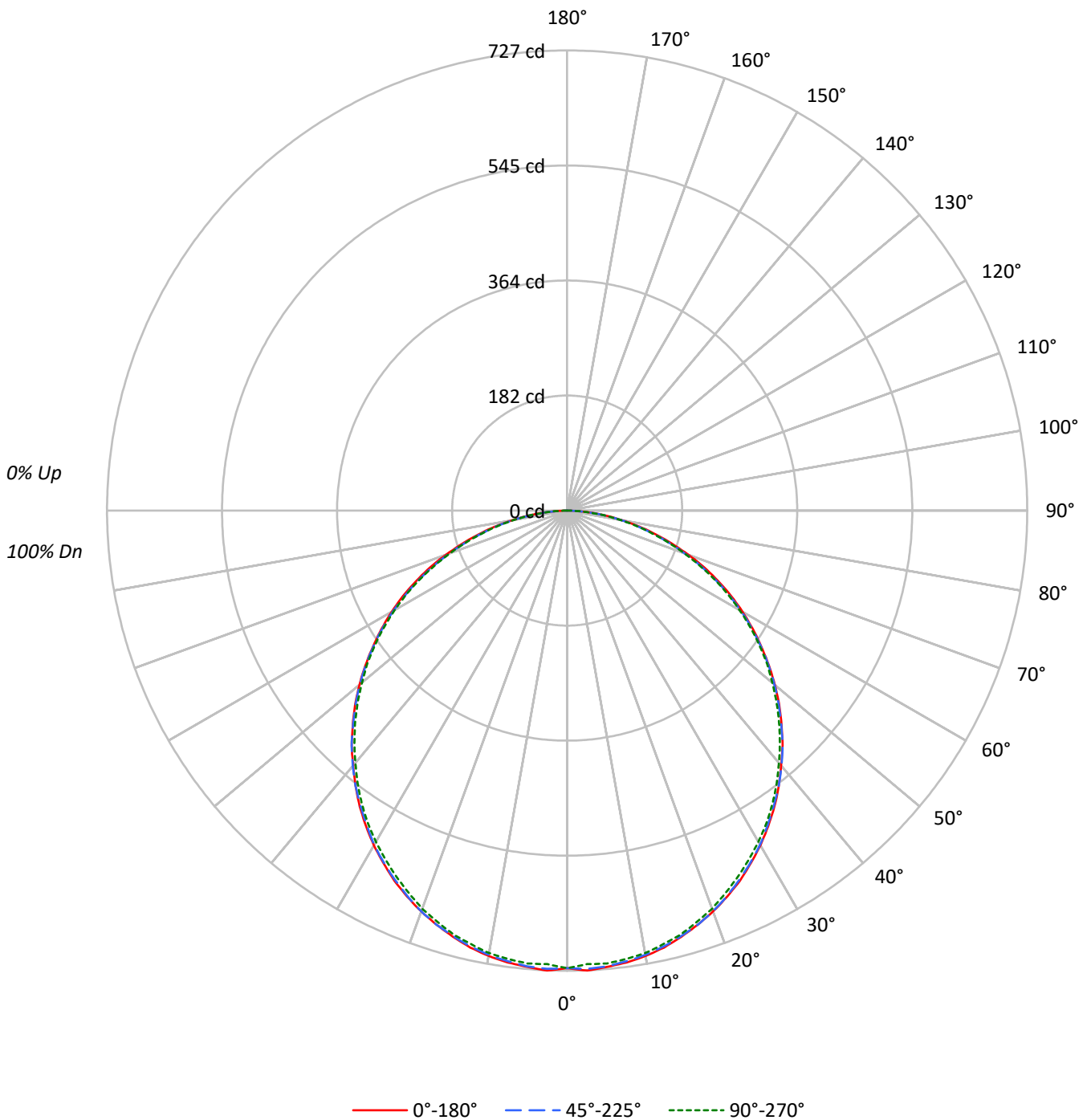
Lumens per Lamp: N/A
Luminaire Lumens: 2061.0 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 19.4
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°	7780	7780	7780
5°	7820	7810	7760
10°	7809	7790	7759
15°	7767	7757	7727
20°	7720	7720	7668
25°	7666	7645	7580
30°	7589	7578	7510
35°	7504	7479	7431
40°	7391	7404	7314
45°	7293	7279	7209
50°	7176	7160	7083
55°	7024	7005	6955
60°	6889	6831	6771
65°	6699	6581	6535
70°	6395	6222	6194
75°	6005	5814	5777
80°	5473	5356	5244
85°	4767	4545	4434



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	3.3
10°-20°	195.7	9.5
20°-30°	295.3	14.3
30°-40°	354.7	17.2
40°-50°	367.3	17.8
50°-60°	332.8	16.1
60°-70°	255.4	12.4
70°-80°	148.9	7.2
80°-90°	42.5	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°	559.5	27.1
0°-40°	914.1	44.4
0°-60°	1614.3	78.3
0°-90°	2061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	724	718	723	718	718	69
15°	697	692	696	692	693	197
25°	646	640	644	637	638	297
35°	571	567	569	563	566	357
45°	479	478	478	472	474	370
55°	374	375	373	368	371	335
65°	263	260	258	256	257	260
75°	144	142	140	138	139	153
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°	722.8	722.8	722.8	722.8	722.8
2.5°	727.4	720.9	724.6	720.9	717.3
5°	723.7	718.2	722.8	718.2	718.2
7.5°	720.0	714.5	718.2	713.6	714.5
10°	714.5	709.0	712.7	709.0	709.9
12.5°	707.1	700.7	705.3	701.6	701.6
15°	697.0	691.5	696.1	692.4	693.4
17.5°	686.0	680.5	686.0	681.4	681.4
20°	674.0	668.5	674.0	668.5	669.4
22.5°	660.3	655.7	659.3	652.9	653.8
25°	645.5	640.0	643.7	637.3	638.2
27.5°	628.1	623.5	627.1	620.7	621.6
30°	610.6	606.0	609.7	602.3	604.2
32.5°	591.3	586.7	589.4	583.9	585.8
35°	571.1	567.4	569.2	562.8	565.5
37.5°	549.0	546.2	549.0	541.6	543.5
40°	526.0	524.2	526.9	519.6	520.5
42.5°	503.9	501.2	503.9	496.6	497.5
45°	479.1	478.2	478.2	471.7	473.6
47.5°	454.3	453.3	453.3	446.9	448.7
50°	428.5	428.5	427.6	421.2	423.0
52.5°	401.9	401.9	400.9	395.4	398.2
55°	374.3	375.2	373.3	367.8	370.6
57.5°	347.6	347.6	345.8	341.2	343.0
60°	320.0	319.1	317.3	312.7	314.5
62.5°	292.4	290.6	287.8	284.1	286.0
65°	263.0	260.2	258.4	255.6	256.6
67.5°	234.5	230.8	228.1	224.4	226.2
70°	203.2	200.5	197.7	194.9	196.8
72.5°	173.8	171.0	168.3	166.4	167.4
75°	144.4	142.5	139.8	137.9	138.9
77.5°	116.8	114.0	113.1	110.3	111.3
80°	88.3	87.4	86.4	83.7	84.6
82.5°	62.5	62.5	60.7	58.9	59.8
85°	38.6	38.6	36.8	34.9	35.9
87.5°	16.6	15.6	15.6	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)