

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: P395163

Luminaire Tested: **2FSN6-SL1-CA125-L8SCT3-3000K-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: P395163
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-CA125-L8SCT3-3000K-HI
Description: 2FT FSN LINEAR LED FIXTURE WITH HIGH 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: 1983.0 lumens
Efficiency: N/A
Efficacy: 102.2 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

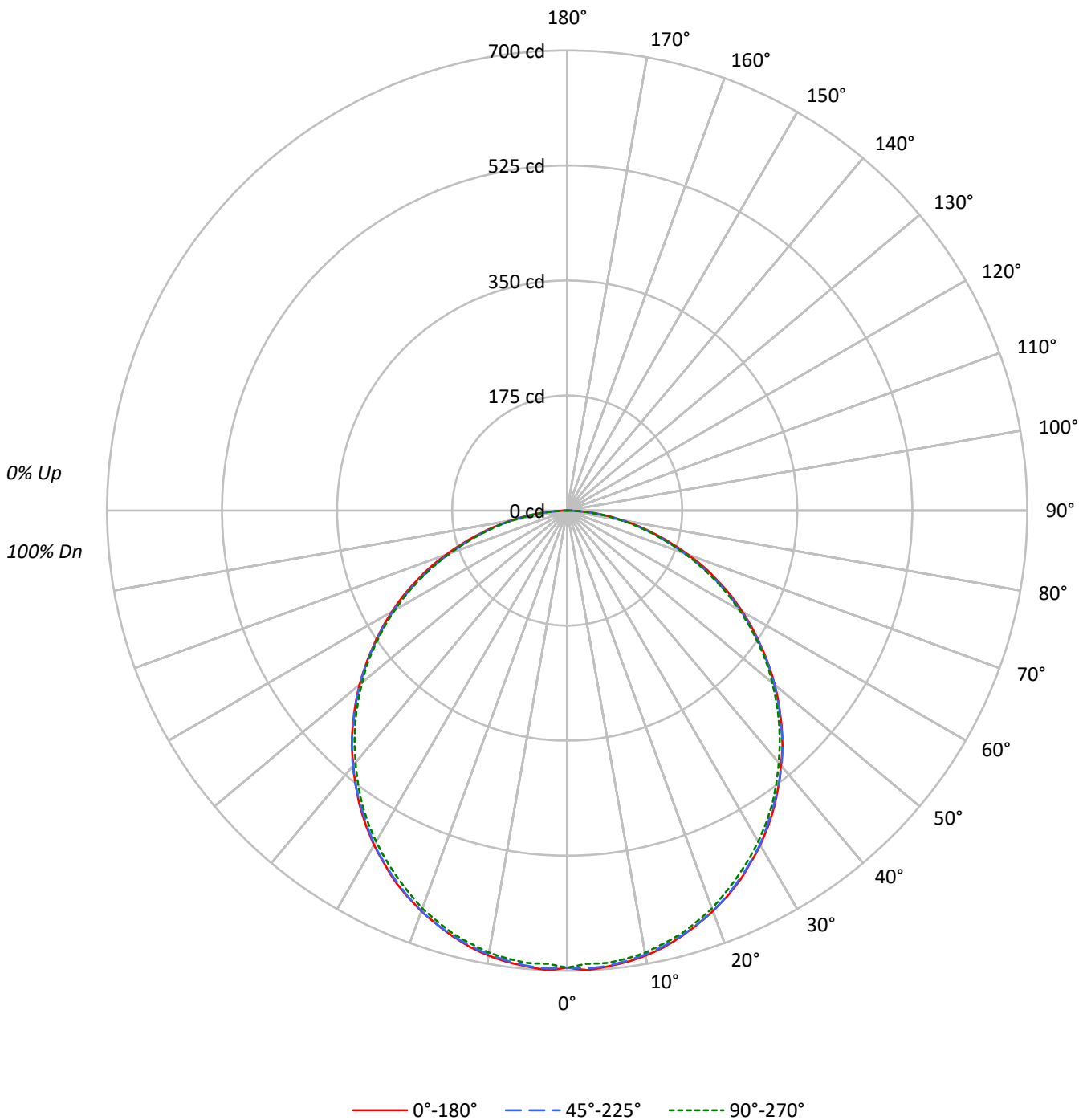
Input Watts (W): 19.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7485	7485	7485
5°	7524	7514	7466
10°	7514	7495	7465
15°	7474	7464	7434
20°	7428	7428	7378
25°	7377	7355	7292
30°	7302	7291	7225
35°	7219	7197	7150
40°	7111	7124	7037
45°	7018	7004	6937
50°	6904	6889	6815
55°	6758	6741	6692
60°	6628	6570	6514
65°	6444	6332	6288
70°	6153	5986	5958
75°	5777	5594	5556
80°	5263	5157	5046
85°	4594	4372	4261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	3.3
10°-20°	188.3	9.5
20°-30°	284.1	14.3
30°-40°	341.2	17.2
40°-50°	353.4	17.8
50°-60°	320.2	16.1
60°-70°	245.8	12.4
70°-80°	143.2	7.2
80°-90°	40.9	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°	538.3	27.1
0°-40°	879.5	44.4
0°-60°	1553.1	78.3
0°-90°	1983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	696	691	695	691	691	66
15°	671	665	670	666	667	189
25°	621	616	619	613	614	286
35°	549	546	548	542	544	343
45°	461	460	460	454	456	356
55°	360	361	359	354	357	322
65°	253	250	249	246	247	250
75°	139	137	134	133	134	147
85°	37	37	35	34	34	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.4	695.4	695.4	695.4	695.4
2.5°	699.9	693.7	697.2	693.7	690.1
5°	696.3	691.0	695.4	691.0	691.0
7.5°	692.8	687.5	691.0	686.6	687.5
10°	687.5	682.2	685.7	682.2	683.0
12.5°	680.4	674.2	678.6	675.1	675.1
15°	670.7	665.3	669.8	666.2	667.1
17.5°	660.0	654.7	660.0	655.6	655.6
20°	648.5	643.2	648.5	643.2	644.1
22.5°	635.3	630.8	634.4	628.2	629.1
25°	621.1	615.8	619.3	613.1	614.0
27.5°	604.3	599.9	603.4	597.2	598.1
30°	587.5	583.1	586.6	579.5	581.3
32.5°	568.9	564.5	567.1	561.8	563.6
35°	549.4	545.9	547.7	541.5	544.1
37.5°	528.2	525.6	528.2	521.1	522.9
40°	506.1	504.3	507.0	499.9	500.8
42.5°	484.9	482.2	484.9	477.8	478.7
45°	461.0	460.1	460.1	453.9	455.7
47.5°	437.1	436.2	436.2	430.0	431.8
50°	412.3	412.3	411.4	405.2	407.0
52.5°	386.6	386.6	385.8	380.4	383.1
55°	360.1	361.0	359.2	353.9	356.6
57.5°	334.4	334.4	332.7	328.2	330.0
60°	307.9	307.0	305.2	300.8	302.6
62.5°	281.4	279.6	276.9	273.4	275.2
65°	253.0	250.4	248.6	246.0	246.9
67.5°	225.6	222.1	219.4	215.9	217.7
70°	195.5	192.9	190.2	187.6	189.3
72.5°	167.2	164.6	161.9	160.1	161.0
75°	138.9	137.1	134.5	132.7	133.6
77.5°	112.4	109.7	108.8	106.2	107.1
80°	84.9	84.1	83.2	80.5	81.4
82.5°	60.2	60.2	58.4	56.6	57.5
85°	37.2	37.2	35.4	33.6	34.5
87.5°	15.9	15.0	15.0	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)