

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: P395164

Luminaire Tested: **2FSN6-SL1-CA125-L8SCT3-3000K-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: P395164
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-LO
Description: 2FT FSN LINEAR LED FIXTURE WITH LOW 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: 1148.0 lumens
Efficiency: N/A
Efficacy: 105.3 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

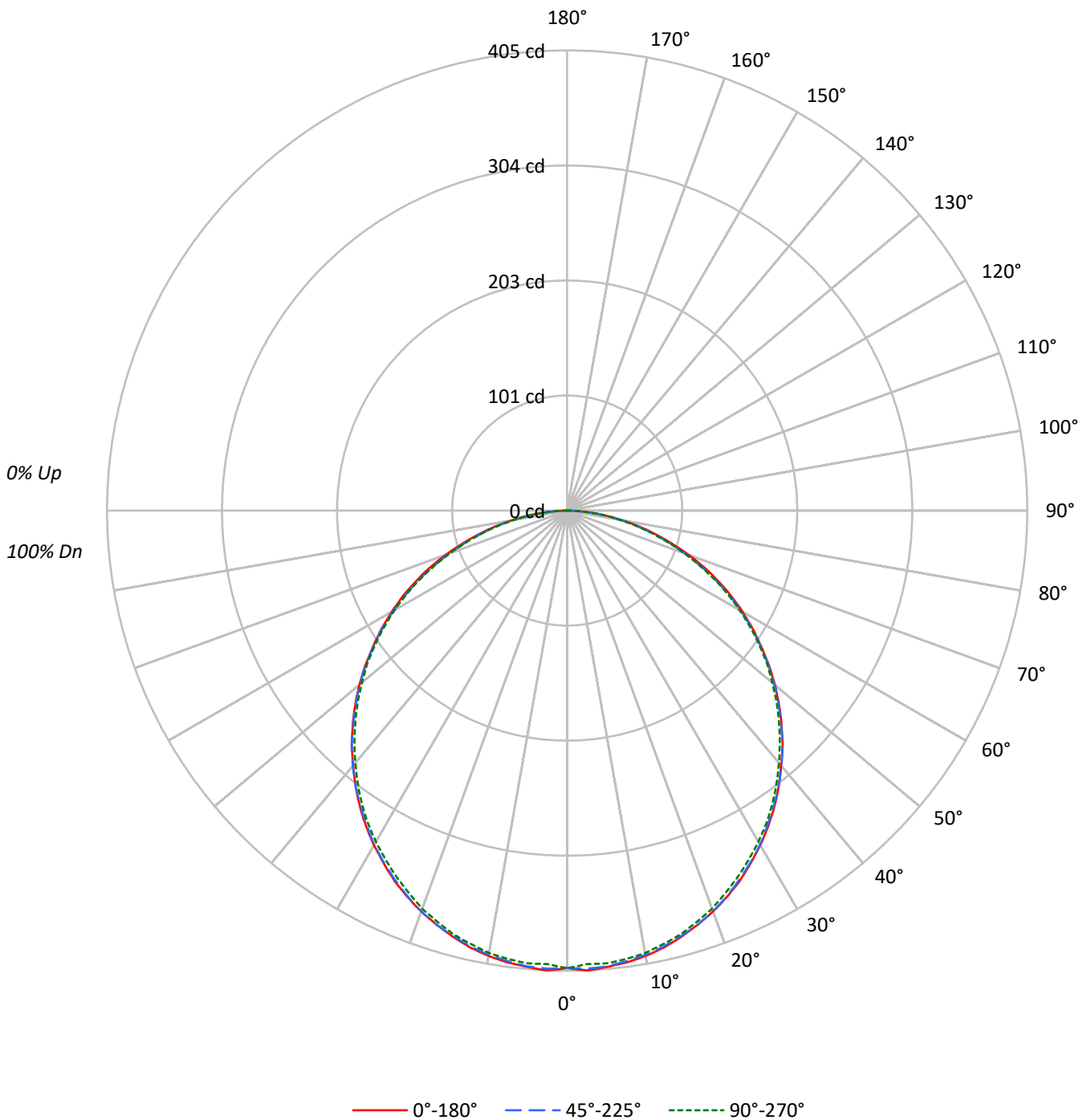
Input Watts (W): 10.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4334	4334	4334
5°	4356	4350	4322
10°	4350	4339	4322
15°	4327	4320	4304
20°	4301	4301	4271
25°	4271	4258	4222
30°	4227	4221	4182
35°	4180	4167	4139
40°	4117	4124	4073
45°	4063	4054	4016
50°	3997	3989	3945
55°	3913	3903	3873
60°	3836	3804	3772
65°	3731	3665	3640
70°	3563	3465	3449
75°	3344	3240	3215
80°	3050	2982	2920
85°	2655	2532	2470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.1	3.3
10°-20°	109.0	9.5
20°-30°	164.5	14.3
30°-40°	197.6	17.2
40°-50°	204.6	17.8
50°-60°	185.4	16.1
60°-70°	142.3	12.4
70°-80°	82.9	7.2
80°-90°	23.7	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°	311.6	27.1
0°-40°	509.2	44.4
0°-60°	899.2	78.3
0°-90°	1148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	403	403	403	403	403	
5°	403	400	403	400	400	38
15°	388	385	388	386	386	110
25°	360	356	358	355	356	166
35°	318	316	317	314	315	199
45°	267	266	266	263	264	206
55°	208	209	208	205	206	187
65°	146	145	144	142	143	145
75°	80	79	78	77	77	85
85°	22	22	20	20	20	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	402.6	402.6	402.6	402.6	402.6
2.5°	405.2	401.6	403.6	401.6	399.5
5°	403.1	400.0	402.6	400.0	400.0
7.5°	401.1	398.0	400.0	397.5	398.0
10°	398.0	394.9	397.0	394.9	395.4
12.5°	393.9	390.3	392.9	390.8	390.8
15°	388.3	385.2	387.7	385.7	386.2
17.5°	382.1	379.0	382.1	379.5	379.5
20°	375.5	372.4	375.5	372.4	372.9
22.5°	367.8	365.2	367.3	363.7	364.2
25°	359.6	356.5	358.5	355.0	355.5
27.5°	349.8	347.3	349.3	345.7	346.3
30°	340.1	337.5	339.6	335.5	336.5
32.5°	329.4	326.8	328.3	325.3	326.3
35°	318.1	316.0	317.1	313.5	315.0
37.5°	305.8	304.3	305.8	301.7	302.7
40°	293.0	292.0	293.5	289.4	289.9
42.5°	280.7	279.2	280.7	276.6	277.1
45°	266.9	266.3	266.3	262.8	263.8
47.5°	253.0	252.5	252.5	248.9	250.0
50°	238.7	238.7	238.2	234.6	235.6
52.5°	223.8	223.8	223.3	220.3	221.8
55°	208.5	209.0	208.0	204.9	206.4
57.5°	193.6	193.6	192.6	190.0	191.1
60°	178.2	177.7	176.7	174.2	175.2
62.5°	162.9	161.9	160.3	158.3	159.3
65°	146.5	145.0	143.9	142.4	142.9
67.5°	130.6	128.6	127.0	125.0	126.0
70°	113.2	111.7	110.1	108.6	109.6
72.5°	96.8	95.3	93.7	92.7	93.2
75°	80.4	79.4	77.9	76.8	77.3
77.5°	65.1	63.5	63.0	61.5	62.0
80°	49.2	48.7	48.1	46.6	47.1
82.5°	34.8	34.8	33.8	32.8	33.3
85°	21.5	21.5	20.5	19.5	20.0
87.5°	9.2	8.7	8.7	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)