

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: P395173

Luminaire Tested: **2FSN6-SL1-CP125-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: P395173
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-CP125-L8SCT3-3000K-LO
Description: 2FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 3000K LEDS AND CP125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1121.0 lumens
Efficiency: N/A
Efficacy: 102.8 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

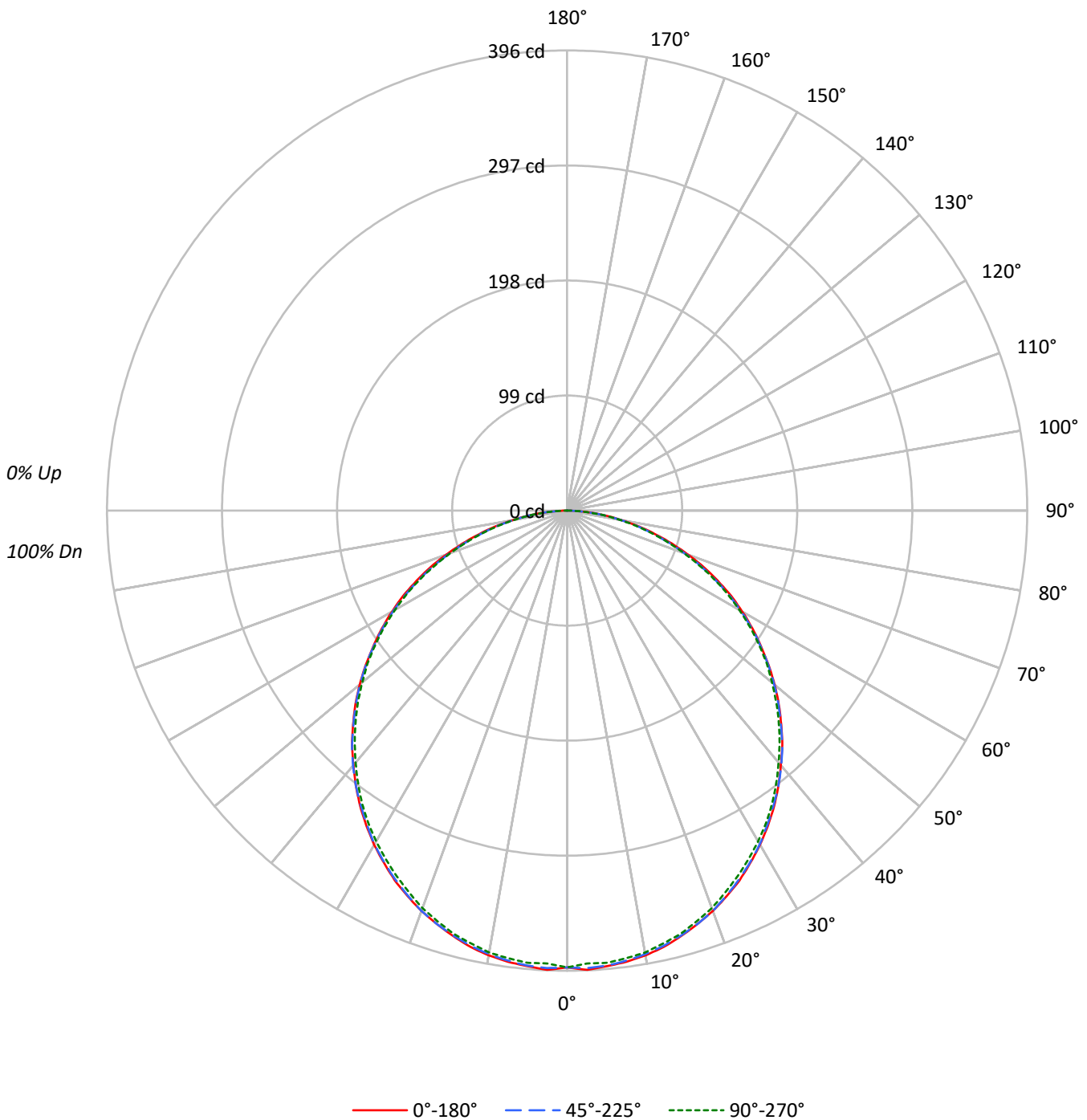
Input Watts (W): 10.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4231	4231	4231
5°	4253	4247	4220
10°	4247	4236	4220
15°	4225	4219	4202
20°	4199	4199	4171
25°	4170	4158	4122
30°	4128	4121	4084
35°	4081	4068	4042
40°	4020	4027	3978
45°	3967	3959	3921
50°	3903	3895	3853
55°	3821	3811	3783
60°	3748	3716	3683
65°	3642	3578	3553
70°	3478	3383	3367
75°	3265	3161	3140
80°	2975	2913	2851
85°	2594	2470	2408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.2	3.3
10°-20°	106.5	9.5
20°-30°	160.6	14.3
30°-40°	192.9	17.2
40°-50°	199.8	17.8
50°-60°	181.0	16.1
60°-70°	138.9	12.4
70°-80°	81.0	7.2
80°-90°	23.1	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°	304.3	27.1
0°-40°	497.2	44.4
0°-60°	878.0	78.3
0°-90°	1121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	393	393	393	393	393	
5°	394	391	393	391	391	37
15°	379	376	379	377	377	107
25°	351	348	350	347	347	162
35°	311	309	310	306	308	194
45°	261	260	260	257	258	201
55°	204	204	203	200	202	182
65°	143	142	140	139	140	142
75°	78	78	76	75	76	83
85°	21	21	20	19	20	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	393.1	393.1	393.1	393.1	393.1
2.5°	395.6	392.1	394.1	392.1	390.1
5°	393.6	390.6	393.1	390.6	390.6
7.5°	391.6	388.6	390.6	388.1	388.6
10°	388.6	385.6	387.6	385.6	386.1
12.5°	384.6	381.1	383.6	381.6	381.6
15°	379.1	376.1	378.6	376.6	377.1
17.5°	373.1	370.1	373.1	370.6	370.6
20°	366.6	363.6	366.6	363.6	364.1
22.5°	359.1	356.6	358.6	355.1	355.6
25°	351.1	348.1	350.1	346.6	347.1
27.5°	341.6	339.1	341.1	337.6	338.1
30°	332.1	329.6	331.6	327.6	328.6
32.5°	321.6	319.1	320.6	317.6	318.6
35°	310.6	308.6	309.6	306.1	307.6
37.5°	298.6	297.1	298.6	294.6	295.6
40°	286.1	285.1	286.6	282.6	283.1
42.5°	274.1	272.6	274.1	270.1	270.6
45°	260.6	260.1	260.1	256.6	257.6
47.5°	247.1	246.6	246.6	243.1	244.1
50°	233.1	233.1	232.6	229.1	230.1
52.5°	218.6	218.6	218.1	215.1	216.6
55°	203.6	204.1	203.1	200.1	201.6
57.5°	189.1	189.1	188.1	185.6	186.6
60°	174.1	173.6	172.6	170.1	171.1
62.5°	159.1	158.1	156.6	154.6	155.6
65°	143.0	141.5	140.5	139.0	139.5
67.5°	127.5	125.5	124.0	122.0	123.0
70°	110.5	109.0	107.5	106.0	107.0
72.5°	94.5	93.0	91.5	90.5	91.0
75°	78.5	77.5	76.0	75.0	75.5
77.5°	63.5	62.0	61.5	60.0	60.5
80°	48.0	47.5	47.0	45.5	46.0
82.5°	34.0	34.0	33.0	32.0	32.5
85°	21.0	21.0	20.0	19.0	19.5
87.5°	9.0	8.5	8.5	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)