

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: P395174

Luminaire Tested: **2FSN6-SL1-CP125-L8SCT3-3000K-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: P395174
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-MID
Description: 2FT FSN LINEAR LED FIXTURE WITH MID 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: 1642.0 lumens
Efficiency: N/A
Efficacy: 102.0 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

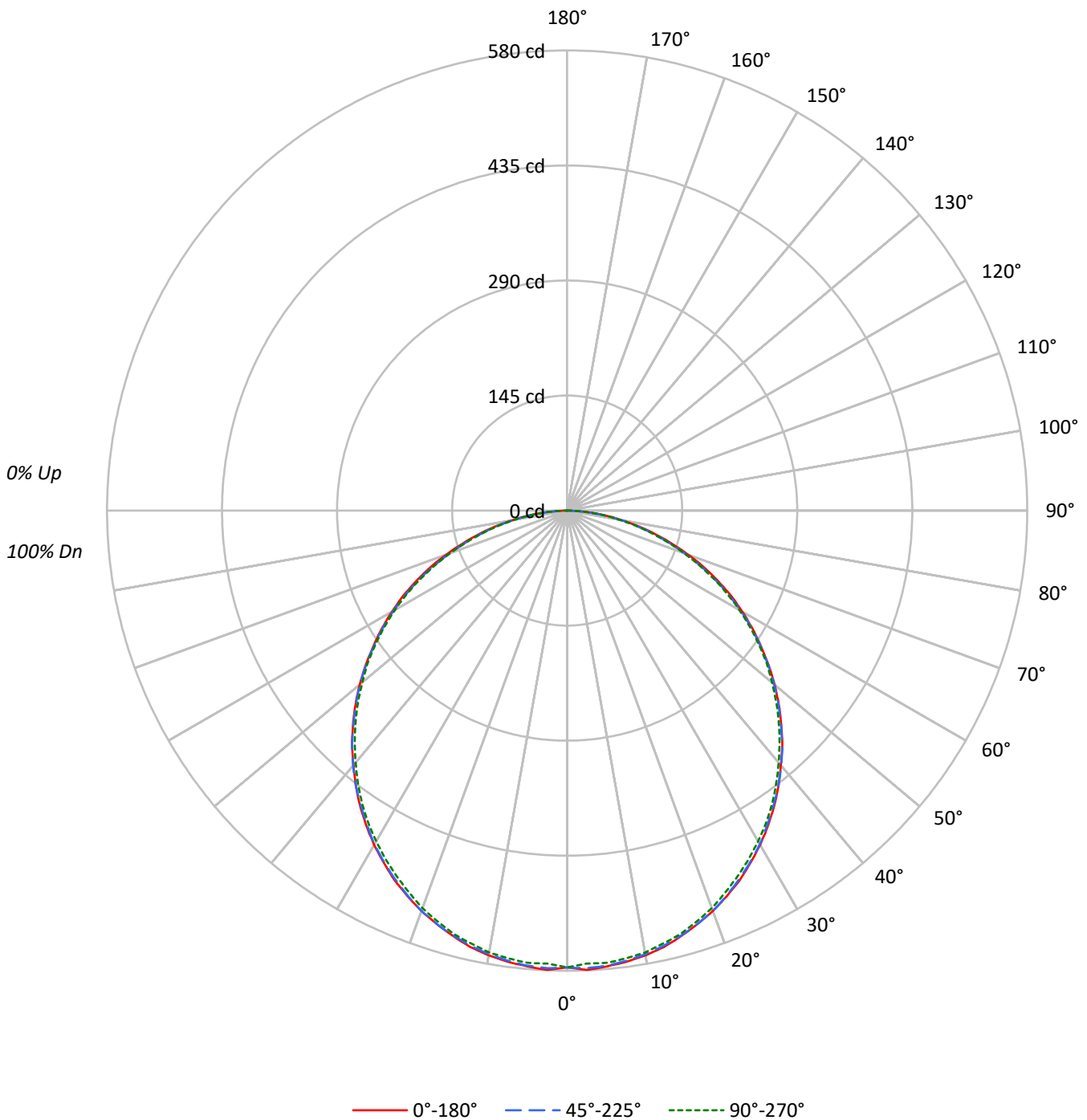
Input Watts (W): 16.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6198	6198	6198
5°	6230	6222	6183
10°	6221	6206	6182
15°	6188	6180	6156
20°	6151	6151	6109
25°	6108	6090	6038
30°	6047	6037	5982
35°	5979	5959	5921
40°	5889	5899	5827
45°	5810	5800	5743
50°	5717	5705	5643
55°	5596	5581	5540
60°	5490	5442	5395
65°	5336	5244	5206
70°	5095	4957	4935
75°	4783	4633	4600
80°	4358	4271	4178
85°	3804	3619	3532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	3.3
10°-20°	156.0	9.5
20°-30°	235.3	14.3
30°-40°	282.6	17.2
40°-50°	292.7	17.8
50°-60°	265.1	16.1
60°-70°	203.5	12.4
70°-80°	118.6	7.2
80°-90°	33.8	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°	445.7	27.1
0°-40°	728.3	44.4
0°-60°	1286.1	78.3
0°-90°	1642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1642.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	577	572	576	572	572	55
15°	555	551	555	552	552	157
25°	514	510	513	508	508	237
35°	455	452	454	448	451	284
45°	382	381	381	376	377	294
55°	298	299	297	293	295	267
65°	210	207	206	204	204	207
75°	115	114	111	110	111	122
85°	31	31	29	28	29	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	575.8	575.8	575.8	575.8	575.8
2.5°	579.5	574.4	577.3	574.4	571.4
5°	576.6	572.2	575.8	572.2	572.2
7.5°	573.6	569.2	572.2	568.5	569.2
10°	569.2	564.9	567.8	564.9	565.6
12.5°	563.4	558.3	561.9	559.0	559.0
15°	555.3	550.9	554.6	551.7	552.4
17.5°	546.5	542.1	546.5	542.9	542.9
20°	537.0	532.6	537.0	532.6	533.3
22.5°	526.0	522.4	525.3	520.2	520.9
25°	514.3	509.9	512.8	507.7	508.4
27.5°	500.4	496.7	499.6	494.5	495.3
30°	486.5	482.8	485.7	479.9	481.3
32.5°	471.1	467.4	469.6	465.2	466.7
35°	455.0	452.0	453.5	448.4	450.6
37.5°	437.4	435.2	437.4	431.5	433.0
40°	419.1	417.6	419.8	413.9	414.7
42.5°	401.5	399.3	401.5	395.6	396.3
45°	381.7	381.0	381.0	375.8	377.3
47.5°	361.9	361.2	361.2	356.1	357.5
50°	341.4	341.4	340.7	335.5	337.0
52.5°	320.2	320.2	319.4	315.0	317.2
55°	298.2	298.9	297.4	293.0	295.2
57.5°	276.9	276.9	275.5	271.8	273.3
60°	255.0	254.2	252.8	249.1	250.6
62.5°	233.0	231.5	229.3	226.4	227.8
65°	209.5	207.3	205.9	203.7	204.4
67.5°	186.8	183.9	181.7	178.8	180.2
70°	161.9	159.7	157.5	155.3	156.8
72.5°	138.5	136.3	134.1	132.6	133.3
75°	115.0	113.6	111.4	109.9	110.6
77.5°	93.0	90.8	90.1	87.9	88.6
80°	70.3	69.6	68.9	66.7	67.4
82.5°	49.8	49.8	48.4	46.9	47.6
85°	30.8	30.8	29.3	27.8	28.6
87.5°	13.2	12.5	12.5	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)