

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: P395225

Luminaire Tested: **4FSN6-SL1-CP125-L8SCT3-4000K-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: P395225
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: 4FSN6-SL1-CP125-L8SCT3-4000K-MID
Description: 4FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 4000K LEDS AND CP125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3184.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

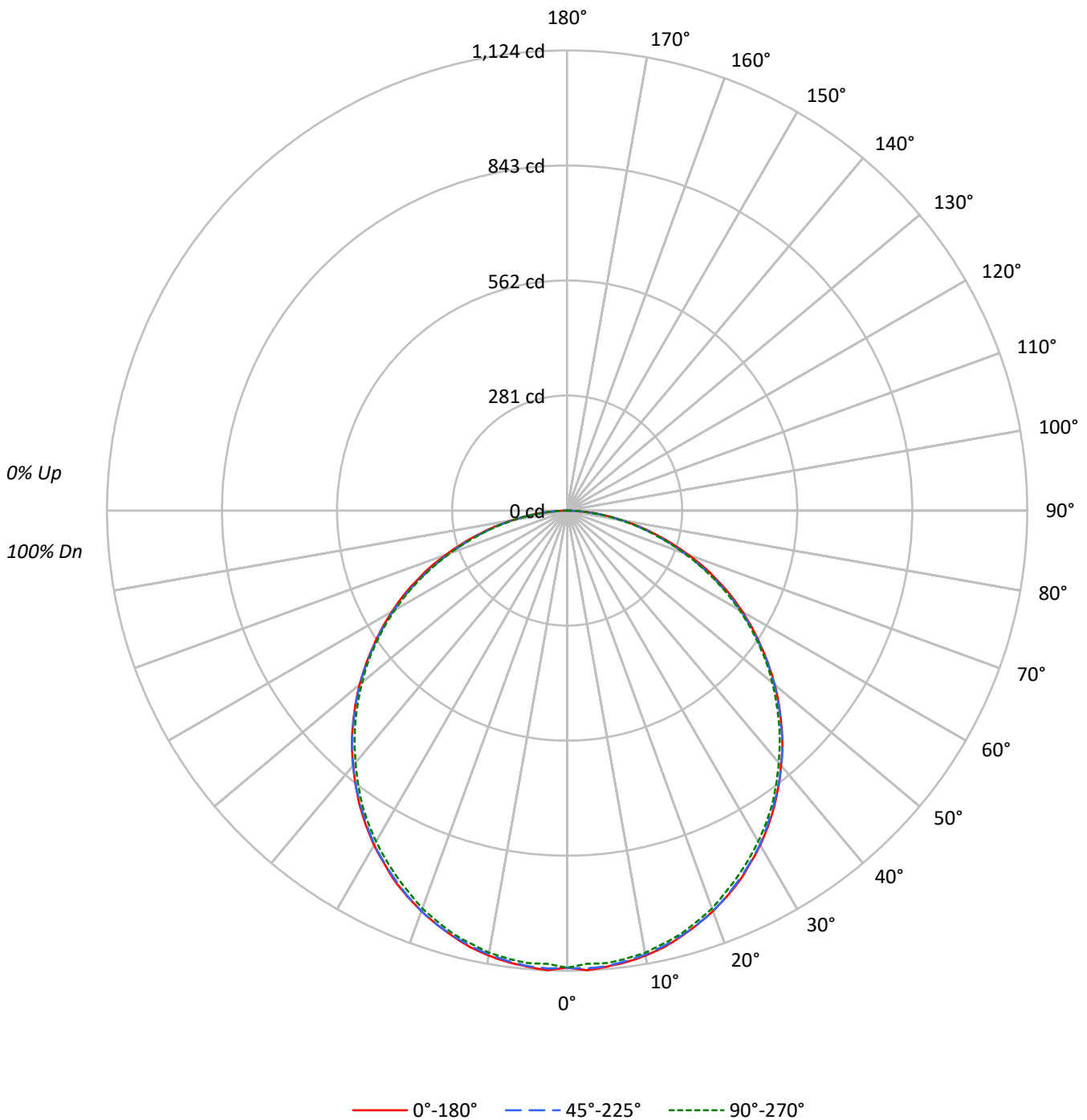
Input Watts (W): 27.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6009	6009	6009
5°	6040	6032	5994
10°	6032	6017	5993
15°	6000	5992	5969
20°	5964	5964	5923
25°	5922	5905	5855
30°	5862	5853	5801
35°	5796	5778	5740
40°	5709	5719	5649
45°	5633	5622	5568
50°	5543	5531	5472
55°	5425	5412	5372
60°	5322	5275	5230
65°	5174	5084	5048
70°	4941	4806	4784
75°	4637	4489	4460
80°	4228	4138	4051
85°	3687	3507	3421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	3.3
10°-20°	302.4	9.5
20°-30°	456.2	14.3
30°-40°	547.9	17.2
40°-50°	567.5	17.8
50°-60°	514.1	16.1
60°-70°	394.6	12.4
70°-80°	230.0	7.2
80°-90°	65.6	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°	864.3	27.1
0°-40°	1412.2	44.4
0°-60°	2493.8	78.3
0°-90°	3184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1118	1110	1117	1110	1110	106
15°	1077	1068	1075	1070	1071	304
25°	997	989	994	984	986	459
35°	882	876	879	869	874	551
45°	740	739	739	729	732	571
55°	578	580	577	568	572	518
65°	406	402	399	395	396	402
75°	223	220	216	213	214	237
85°	60	60	57	54	55	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1116.6	1116.6	1116.6	1116.6	1116.6
2.5°	1123.7	1113.8	1119.5	1113.8	1108.1
5°	1118.0	1109.5	1116.6	1109.5	1109.5
7.5°	1112.3	1103.8	1109.5	1102.4	1103.8
10°	1103.8	1095.3	1101.0	1095.3	1096.7
12.5°	1092.5	1082.5	1089.6	1083.9	1083.9
15°	1076.8	1068.3	1075.4	1069.7	1071.2
17.5°	1059.8	1051.3	1059.8	1052.7	1052.7
20°	1041.3	1032.8	1041.3	1032.8	1034.2
22.5°	1020.0	1012.9	1018.6	1008.6	1010.1
25°	997.3	988.8	994.4	984.5	985.9
27.5°	970.3	963.2	968.9	958.9	960.3
30°	943.3	936.2	941.9	930.5	933.4
32.5°	913.5	906.4	910.6	902.1	904.9
35°	882.2	876.5	879.4	869.4	873.7
37.5°	848.1	843.9	848.1	836.7	839.6
40°	812.6	809.8	814.0	802.7	804.1
42.5°	778.5	774.2	778.5	767.1	768.6
45°	740.1	738.7	738.7	728.8	731.6
47.5°	701.8	700.4	700.4	690.4	693.3
50°	662.0	662.0	660.6	650.6	653.5
52.5°	620.8	620.8	619.4	610.9	615.1
55°	578.2	579.6	576.8	568.2	572.5
57.5°	537.0	537.0	534.2	527.1	529.9
60°	494.4	493.0	490.1	483.0	485.9
62.5°	451.8	448.9	444.7	439.0	441.8
65°	406.3	402.0	399.2	394.9	396.4
67.5°	362.3	356.6	352.3	346.6	349.5
70°	314.0	309.7	305.4	301.2	304.0
72.5°	268.5	264.2	260.0	257.1	258.6
75°	223.0	220.2	215.9	213.1	214.5
77.5°	180.4	176.2	174.7	170.5	171.9
80°	136.4	135.0	133.5	129.3	130.7
82.5°	96.6	96.6	93.8	90.9	92.3
85°	59.7	59.7	56.8	54.0	55.4
87.5°	25.6	24.2	24.2	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)