

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: P395211

Luminaire Tested: **4FSN6-SL1-CA125-L8SCT3-3500K-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: P395211
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-CA125-L8SCT3-3500K-HI
Description: 4FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3500K LEDS AND CA125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4050.0 lumens
Efficiency: N/A
Efficacy: 112.2 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

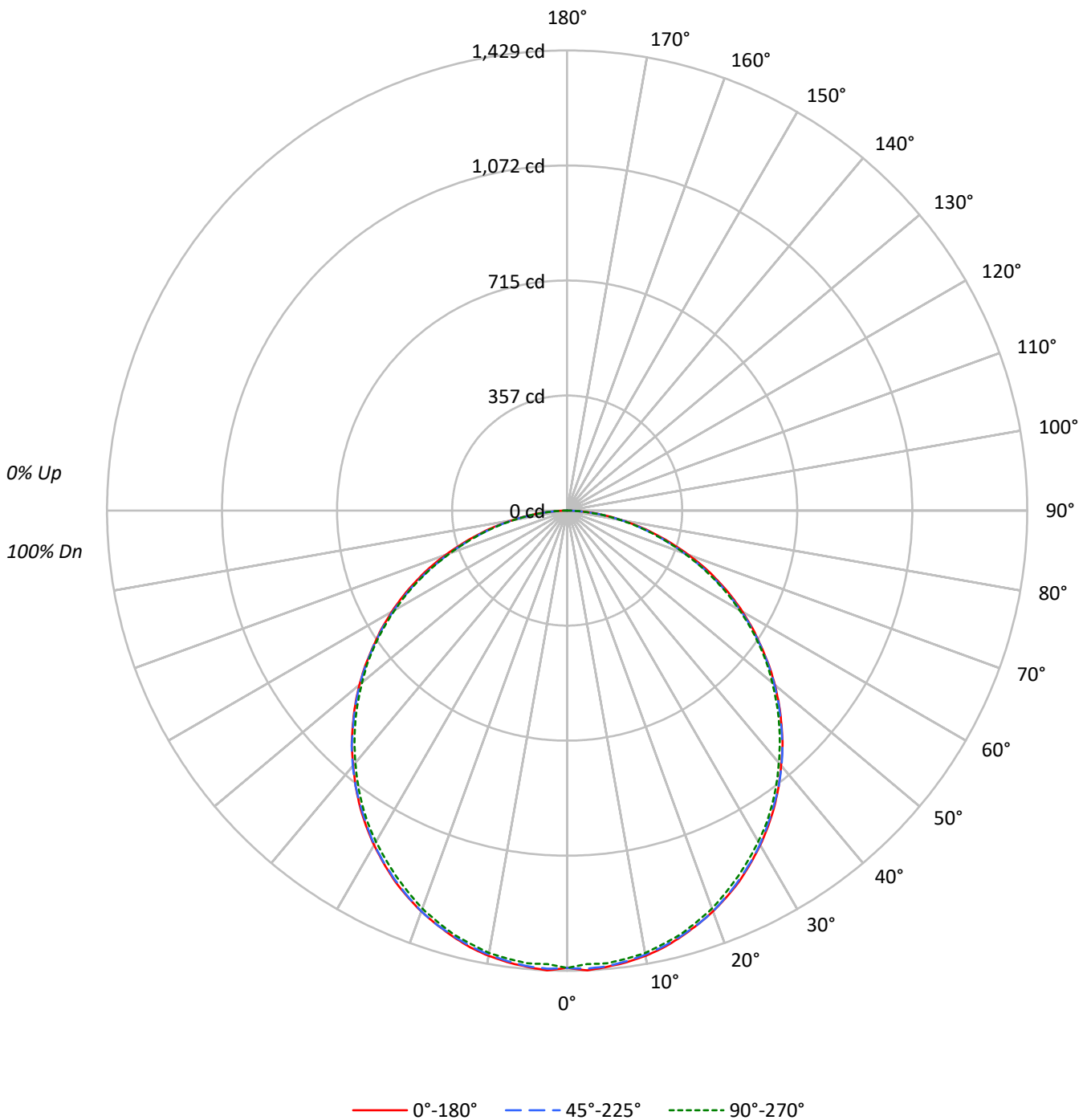
Input Watts (W): 36.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7644	7644	7644
5°	7683	7673	7625
10°	7673	7653	7624
15°	7632	7622	7592
20°	7586	7586	7534
25°	7533	7511	7447
30°	7457	7445	7378
35°	7373	7349	7301
40°	7262	7274	7186
45°	7166	7152	7083
50°	7051	7036	6960
55°	6901	6883	6833
60°	6768	6710	6652
65°	6581	6467	6421
70°	6283	6113	6085
75°	5899	5712	5675
80°	5377	5266	5151
85°	4687	4465	4353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	3.3
10°-20°	384.7	9.5
20°-30°	580.3	14.3
30°-40°	696.9	17.2
40°-50°	721.8	17.8
50°-60°	653.9	16.1
60°-70°	501.9	12.4
70°-80°	292.6	7.2
80°-90°	83.4	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°	1099.4	27.1
0°-40°	1796.3	44.4
0°-60°	3172.1	78.3
0°-90°	4050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1420	1420	1420	1420	1420	
5°	1422	1411	1420	1411	1411	135
15°	1370	1359	1368	1361	1362	387
25°	1268	1258	1265	1252	1254	584
35°	1122	1115	1118	1106	1111	701
45°	942	940	940	927	931	726
55°	736	737	734	723	728	658
65°	517	511	508	502	504	511
75°	284	280	275	271	273	301
85°	76	76	72	69	70	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1420.3	1420.3	1420.3	1420.3	1420.3
2.5°	1429.3	1416.7	1423.9	1416.7	1409.5
5°	1422.1	1411.3	1420.3	1411.3	1411.3
7.5°	1414.9	1404.0	1411.3	1402.2	1404.0
10°	1404.0	1393.2	1400.4	1393.2	1395.0
12.5°	1389.6	1376.9	1386.0	1378.8	1378.8
15°	1369.7	1358.9	1367.9	1360.7	1362.5
17.5°	1348.0	1337.2	1348.0	1339.0	1339.0
20°	1324.5	1313.7	1324.5	1313.7	1315.5
22.5°	1297.4	1288.4	1295.6	1283.0	1284.8
25°	1268.5	1257.7	1264.9	1252.3	1254.1
27.5°	1234.2	1225.2	1232.4	1219.7	1221.5
30°	1199.9	1190.8	1198.0	1183.6	1187.2
32.5°	1161.9	1152.9	1158.3	1147.5	1151.1
35°	1122.2	1114.9	1118.5	1105.9	1111.3
37.5°	1078.8	1073.4	1078.8	1064.3	1067.9
40°	1033.6	1030.0	1035.4	1021.0	1022.8
42.5°	990.2	984.8	990.2	975.8	977.6
45°	941.5	939.6	939.6	927.0	930.6
47.5°	892.7	890.9	890.9	878.2	881.8
50°	842.1	842.1	840.3	827.6	831.2
52.5°	789.7	789.7	787.9	777.0	782.4
55°	735.5	737.3	733.6	722.8	728.2
57.5°	683.1	683.1	679.4	670.4	674.0
60°	628.8	627.0	623.4	614.4	618.0
62.5°	574.6	571.0	565.6	558.4	562.0
65°	516.8	511.4	507.8	502.3	504.2
67.5°	460.8	453.6	448.1	440.9	444.5
70°	399.3	393.9	388.5	383.1	386.7
72.5°	341.5	336.1	330.7	327.1	328.9
75°	283.7	280.1	274.7	271.1	272.9
77.5°	229.5	224.1	222.3	216.8	218.6
80°	173.5	171.7	169.9	164.4	166.2
82.5°	122.9	122.9	119.3	115.6	117.5
85°	75.9	75.9	72.3	68.7	70.5
87.5°	32.5	30.7	30.7	28.9	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)