

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: P395214

Luminaire Tested: **4FSN6-SL1-CA125-L8SCT3-4000K-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: P395214  
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-L8SCT3-4000K-HI  
Description: 4FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 4000K LEDS AND CA125 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4097.0 lumens  
Efficiency: N/A  
Efficacy: 114.1 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

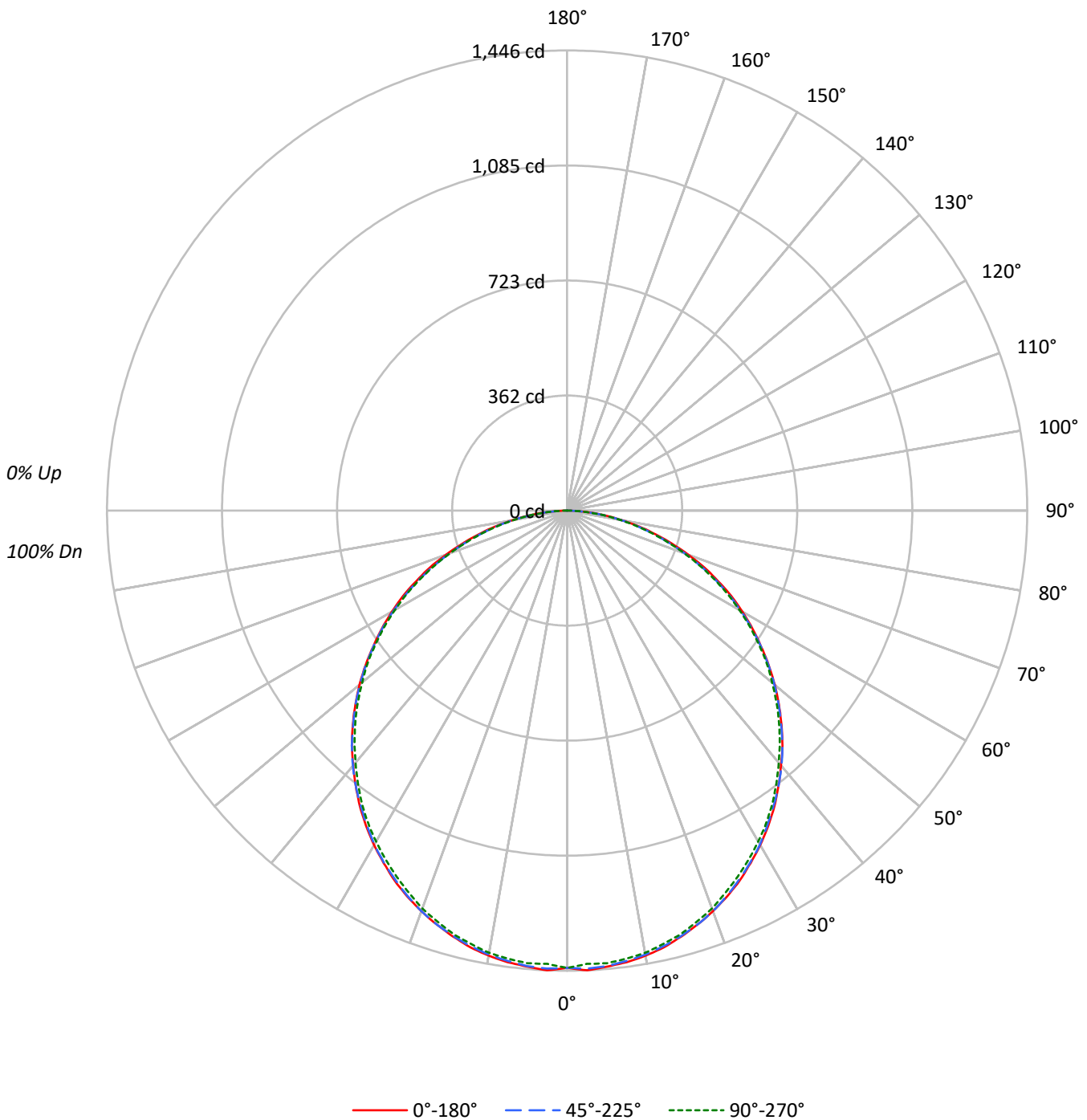
Input Watts (W): 35.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	7733	7733	7733
5°	7772	7762	7713
10°	7762	7742	7712
15°	7720	7710	7680
20°	7674	7674	7622
25°	7620	7599	7533
30°	7543	7532	7464
35°	7458	7434	7386
40°	7346	7359	7269
45°	7249	7235	7165
50°	7132	7117	7041
55°	6981	6964	6913
60°	6847	6789	6730
65°	6658	6542	6495
70°	6357	6184	6156
75°	5968	5779	5739
80°	5439	5325	5213
85°	4742	4514	4403



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.0	3.3
10°-20°	389.1	9.5
20°-30°	587.0	14.3
30°-40°	705.0	17.2
40°-50°	730.2	17.8
50°-60°	661.5	16.1
60°-70°	507.7	12.4
70°-80°	296.0	7.2
80°-90°	84.4	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°	1112.2	27.1
0°-40°	1817.2	44.4
0°-60°	3208.9	78.3
0°-90°	4097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4097.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1439	1428	1437	1428	1428	137
15°	1386	1375	1384	1376	1378	391
25°	1283	1272	1280	1267	1269	591
35°	1135	1128	1132	1119	1124	710
45°	952	951	951	938	941	735
55°	744	746	742	731	737	666
65°	523	517	514	508	510	517
75°	287	283	278	274	276	304
85°	77	77	73	70	71	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1445.9	1433.1	1440.5	1433.1	1425.8
5°	1438.6	1427.7	1436.8	1427.7	1427.7
7.5°	1431.3	1420.3	1427.7	1418.5	1420.3
10°	1420.3	1409.4	1416.7	1409.4	1411.2
12.5°	1405.7	1392.9	1402.1	1394.8	1394.8
15°	1385.6	1374.6	1383.8	1376.5	1378.3
17.5°	1363.7	1352.7	1363.7	1354.5	1354.5
20°	1339.9	1328.9	1339.9	1328.9	1330.8
22.5°	1312.5	1303.4	1310.7	1297.9	1299.7
25°	1283.2	1272.3	1279.6	1266.8	1268.6
27.5°	1248.5	1239.4	1246.7	1233.9	1235.7
30°	1213.8	1204.6	1212.0	1197.3	1201.0
32.5°	1175.4	1166.3	1171.7	1160.8	1164.4
35°	1135.2	1127.9	1131.5	1118.7	1124.2
37.5°	1091.3	1085.8	1091.3	1076.7	1080.3
40°	1045.6	1042.0	1047.4	1032.8	1034.6
42.5°	1001.7	996.3	1001.7	987.1	988.9
45°	952.4	950.6	950.6	937.8	941.4
47.5°	903.0	901.2	901.2	888.4	892.1
50°	851.8	851.8	850.0	837.2	840.9
52.5°	798.8	798.8	797.0	786.0	791.5
55°	744.0	745.8	742.2	731.2	736.7
57.5°	691.0	691.0	687.3	678.2	681.8
60°	636.1	634.3	630.7	621.5	625.2
62.5°	581.3	577.6	572.2	564.8	568.5
65°	522.8	517.3	513.7	508.2	510.0
67.5°	466.1	458.8	453.3	446.0	449.7
70°	404.0	398.5	393.0	387.5	391.2
72.5°	345.5	340.0	334.5	330.9	332.7
75°	287.0	283.3	277.9	274.2	276.0
77.5°	232.2	226.7	224.8	219.4	221.2
80°	175.5	173.7	171.8	166.3	168.2
82.5°	124.3	124.3	120.6	117.0	118.8
85°	76.8	76.8	73.1	69.5	71.3
87.5°	32.9	31.1	31.1	29.2	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)