

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: P395308

Luminaire Tested: **8FSN6-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: P395308  
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: 8FSN6-SL1-CP125-L8SCT3-3000K-LO  
Description: 8FT 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**

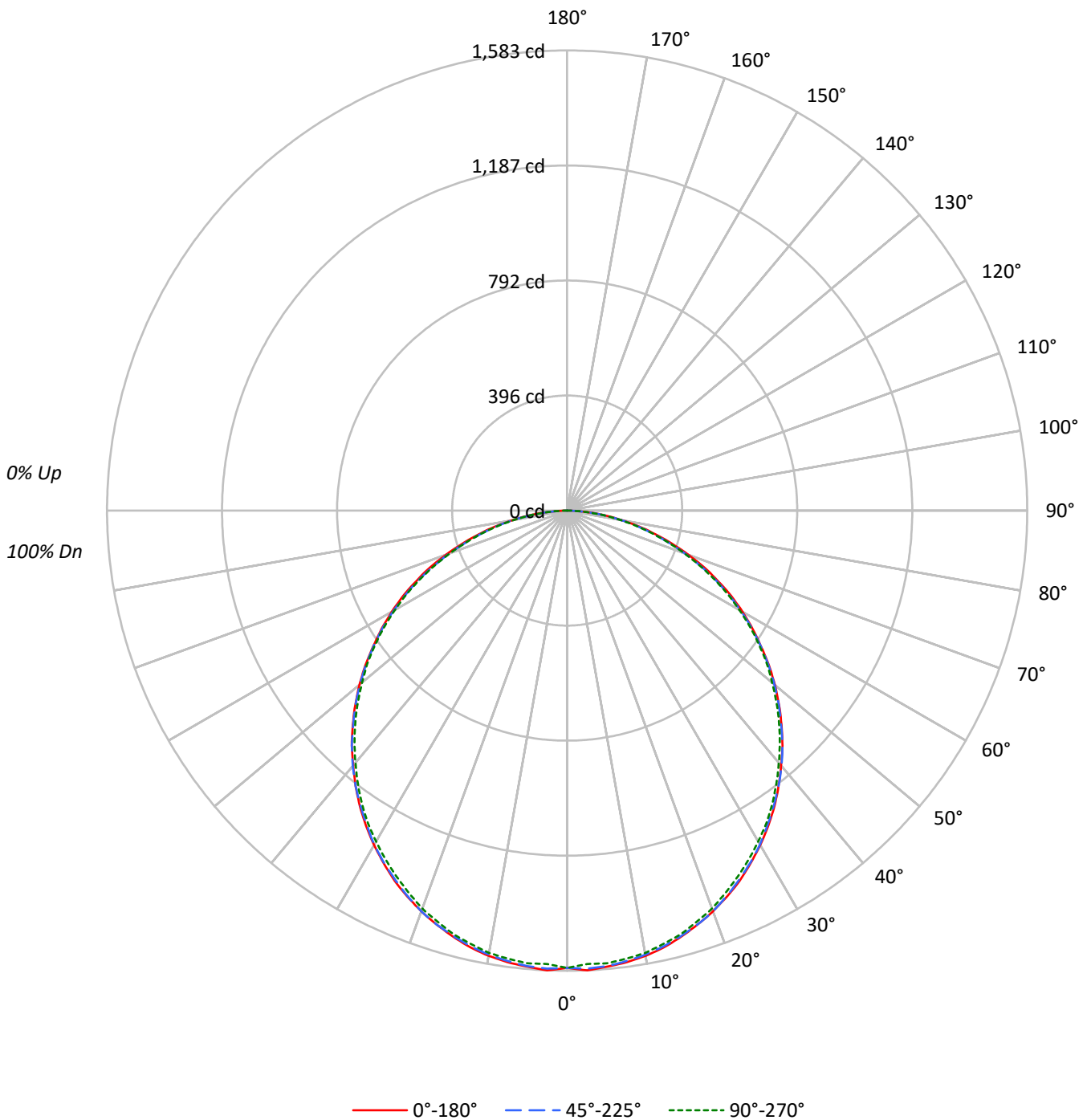
Lumens per Lamp: N/A  
Luminaire Lumens: 4486.0 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.6  
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°	4233	4233	4233
5°	4255	4250	4223
10°	4250	4239	4222
15°	4227	4221	4204
20°	4201	4201	4173
25°	4172	4160	4124
30°	4130	4123	4086
35°	4083	4070	4044
40°	4022	4029	3980
45°	3968	3961	3923
50°	3905	3896	3854
55°	3822	3812	3784
60°	3749	3716	3684
65°	3645	3581	3556
70°	3480	3386	3370
75°	3267	3163	3142
80°	2977	2915	2853
85°	2597	2473	2411



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.9	3.3
10°-20°	426.1	9.5
20°-30°	642.8	14.3
30°-40°	772.0	17.2
40°-50°	799.5	17.8
50°-60°	724.3	16.1
60°-70°	555.9	12.4
70°-80°	324.0	7.2
80°-90°	92.4	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°	1217.8	27.1
0°-40°	1989.7	44.4
0°-60°	3513.6	78.3
0°-90°	4486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4486.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1573	1573	1573	1573	1573	
5°	1575	1563	1573	1563	1563	150
15°	1517	1505	1515	1507	1509	428
25°	1405	1393	1401	1387	1389	647
35°	1243	1235	1239	1225	1231	777
45°	1043	1041	1041	1027	1031	805
55°	815	817	813	801	807	729
65°	572	566	562	556	558	566
75°	314	310	304	300	302	333
85°	84	84	80	76	78	96
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1573.2	1573.2	1573.2	1573.2	1573.2
2.5°	1583.2	1569.2	1577.2	1569.2	1561.2
5°	1575.2	1563.2	1573.2	1563.2	1563.2
7.5°	1567.2	1555.2	1563.2	1553.2	1555.2
10°	1555.2	1543.2	1551.2	1543.2	1545.2
12.5°	1539.2	1525.2	1535.2	1527.2	1527.2
15°	1517.2	1505.2	1515.2	1507.2	1509.2
17.5°	1493.2	1481.1	1493.2	1483.1	1483.1
20°	1467.1	1455.1	1467.1	1455.1	1457.1
22.5°	1437.1	1427.1	1435.1	1421.1	1423.1
25°	1405.1	1393.1	1401.1	1387.1	1389.1
27.5°	1367.1	1357.0	1365.1	1351.0	1353.0
30°	1329.0	1319.0	1327.0	1311.0	1315.0
32.5°	1287.0	1277.0	1283.0	1271.0	1275.0
35°	1243.0	1235.0	1239.0	1224.9	1231.0
37.5°	1194.9	1188.9	1194.9	1178.9	1182.9
40°	1144.9	1140.9	1146.9	1130.9	1132.9
42.5°	1096.8	1090.8	1096.8	1080.8	1082.8
45°	1042.8	1040.8	1040.8	1026.8	1030.8
47.5°	988.8	986.8	986.8	972.8	976.8
50°	932.7	932.7	930.7	916.7	920.7
52.5°	874.7	874.7	872.7	860.7	866.7
55°	814.6	816.6	812.6	800.6	806.6
57.5°	756.6	756.6	752.6	742.6	746.6
60°	696.5	694.5	690.5	680.5	684.5
62.5°	636.5	632.5	626.5	618.5	622.5
65°	572.4	566.4	562.4	556.4	558.4
67.5°	510.4	502.4	496.4	488.4	492.4
70°	442.3	436.3	430.3	424.3	428.3
72.5°	378.3	372.3	366.3	362.3	364.3
75°	314.2	310.2	304.2	300.2	302.2
77.5°	254.2	248.2	246.2	240.2	242.2
80°	192.1	190.1	188.1	182.1	184.1
82.5°	136.1	136.1	132.1	128.1	130.1
85°	84.1	84.1	80.1	76.1	78.1
87.5°	36.0	34.0	34.0	32.0	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)