

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: P395311

Luminaire Tested: **8FSN6-SL1-CP125-L8SCT3-3500K-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: P395311  
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-L8SCT3-3500K-LO  
Description: 8FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 3500K LEDS AND CP125 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4604.0 lumens  
Efficiency: N/A  
Efficacy: 119.3 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

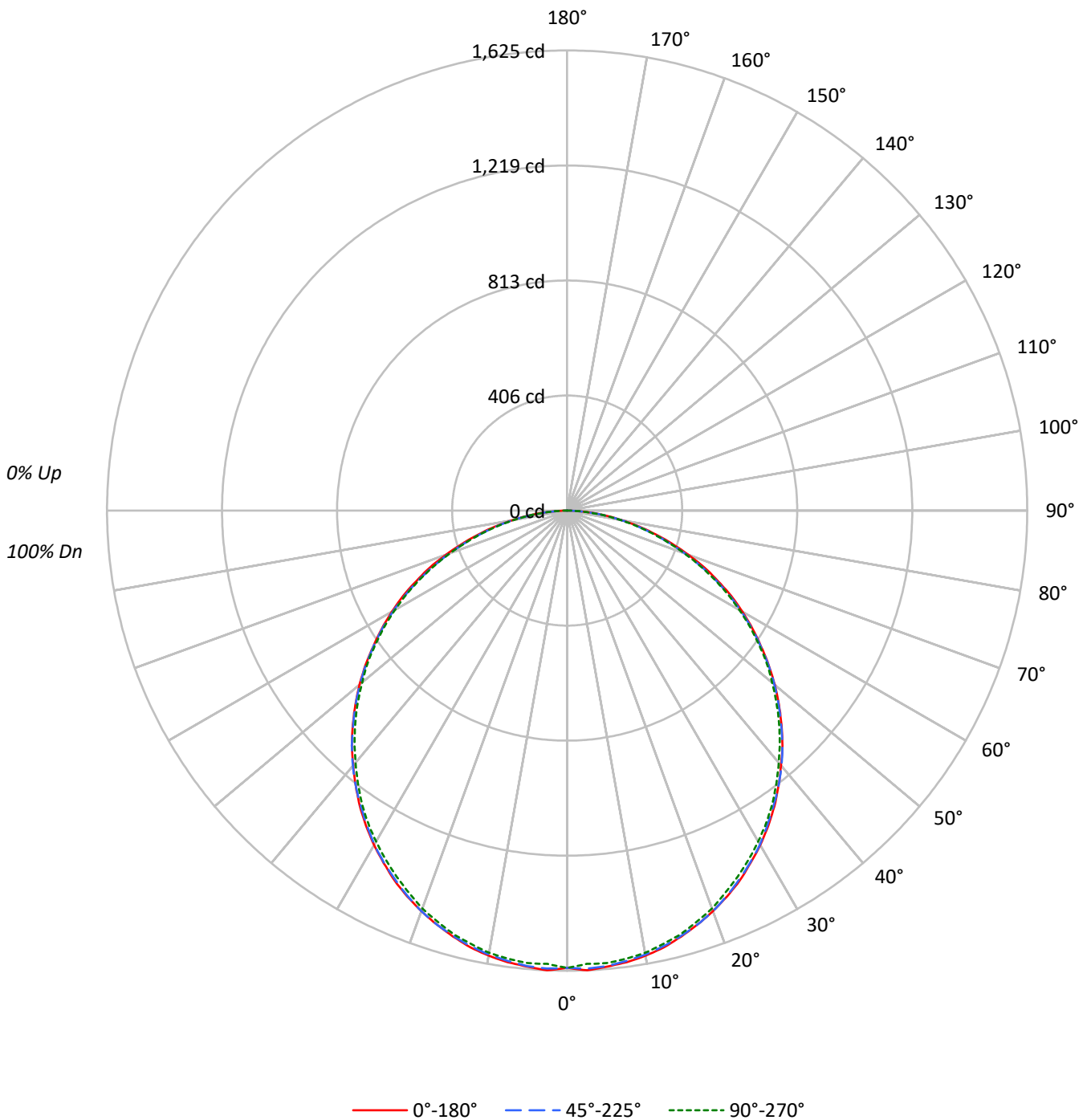
Input Watts (W): 38.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	4345	4345	4345
5°	4367	4361	4334
10°	4361	4350	4333
15°	4338	4332	4315
20°	4312	4312	4283
25°	4282	4269	4233
30°	4238	4232	4194
35°	4191	4177	4150
40°	4128	4135	4084
45°	4073	4065	4026
50°	4008	3999	3956
55°	3923	3913	3884
60°	3848	3814	3781
65°	3741	3675	3649
70°	3572	3475	3459
75°	3353	3246	3225
80°	3056	2992	2929
85°	2665	2538	2473



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.8	3.3
10°-20°	437.3	9.5
20°-30°	659.7	14.3
30°-40°	792.3	17.2
40°-50°	820.6	17.8
50°-60°	743.4	16.1
60°-70°	570.6	12.4
70°-80°	332.6	7.2
80°-90°	94.9	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°	1249.8	27.1
0°-40°	2042.1	44.4
0°-60°	3606.0	78.3
0°-90°	4604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4604.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1615	1615	1615	1615	1615	
5°	1617	1604	1615	1604	1604	154
15°	1557	1545	1555	1547	1549	439
25°	1442	1430	1438	1424	1426	664
35°	1276	1267	1272	1257	1263	797
45°	1070	1068	1068	1054	1058	826
55°	836	838	834	822	828	748
65°	588	581	577	571	573	581
75°	322	318	312	308	310	342
85°	86	86	82	78	80	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1614.6	1614.6	1614.6	1614.6	1614.6
2.5°	1624.9	1610.5	1618.7	1610.5	1602.3
5°	1616.7	1604.3	1614.6	1604.3	1604.3
7.5°	1608.4	1596.1	1604.3	1594.1	1596.1
10°	1596.1	1583.8	1592.0	1583.8	1585.8
12.5°	1579.7	1565.3	1575.6	1567.4	1567.4
15°	1557.1	1544.8	1555.0	1546.8	1548.9
17.5°	1532.4	1520.1	1532.4	1522.2	1522.2
20°	1505.7	1493.4	1505.7	1493.4	1495.5
22.5°	1474.9	1464.6	1472.9	1458.5	1460.5
25°	1442.0	1429.7	1437.9	1423.6	1425.6
27.5°	1403.0	1392.7	1401.0	1386.6	1388.6
30°	1364.0	1353.7	1361.9	1345.5	1349.6
32.5°	1320.8	1310.6	1316.7	1304.4	1308.5
35°	1275.7	1267.4	1271.5	1257.2	1263.3
37.5°	1226.4	1220.2	1226.4	1209.9	1214.0
40°	1175.0	1170.9	1177.1	1160.6	1162.7
42.5°	1125.7	1119.5	1125.7	1109.3	1111.3
45°	1070.2	1068.2	1068.2	1053.8	1057.9
47.5°	1014.8	1012.7	1012.7	998.3	1002.4
50°	957.3	957.3	955.2	940.8	944.9
52.5°	897.7	897.7	895.6	883.3	889.5
55°	836.1	838.1	834.0	821.7	827.8
57.5°	776.5	776.5	772.4	762.1	766.2
60°	714.9	712.8	708.7	698.4	702.5
62.5°	653.2	649.1	643.0	634.7	638.9
65°	587.5	581.3	577.2	571.1	573.1
67.5°	523.8	515.6	509.4	501.2	505.3
70°	454.0	447.8	441.7	435.5	439.6
72.5°	388.2	382.1	375.9	371.8	373.9
75°	322.5	318.4	312.2	308.1	310.2
77.5°	260.9	254.7	252.7	246.5	248.6
80°	197.2	195.1	193.1	186.9	189.0
82.5°	139.7	139.7	135.6	131.5	133.5
85°	86.3	86.3	82.2	78.1	80.1
87.5°	37.0	34.9	34.9	32.9	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)