

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: P395293

Luminaire Tested: **8FSN6-SL1-CA08-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: P395293  
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-CA08-L8SCT3-3500K-LO  
Description: 8FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 3500K LEDS AND CA08 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4743.0 lumens  
Efficiency: N/A  
Efficacy: 122.9 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

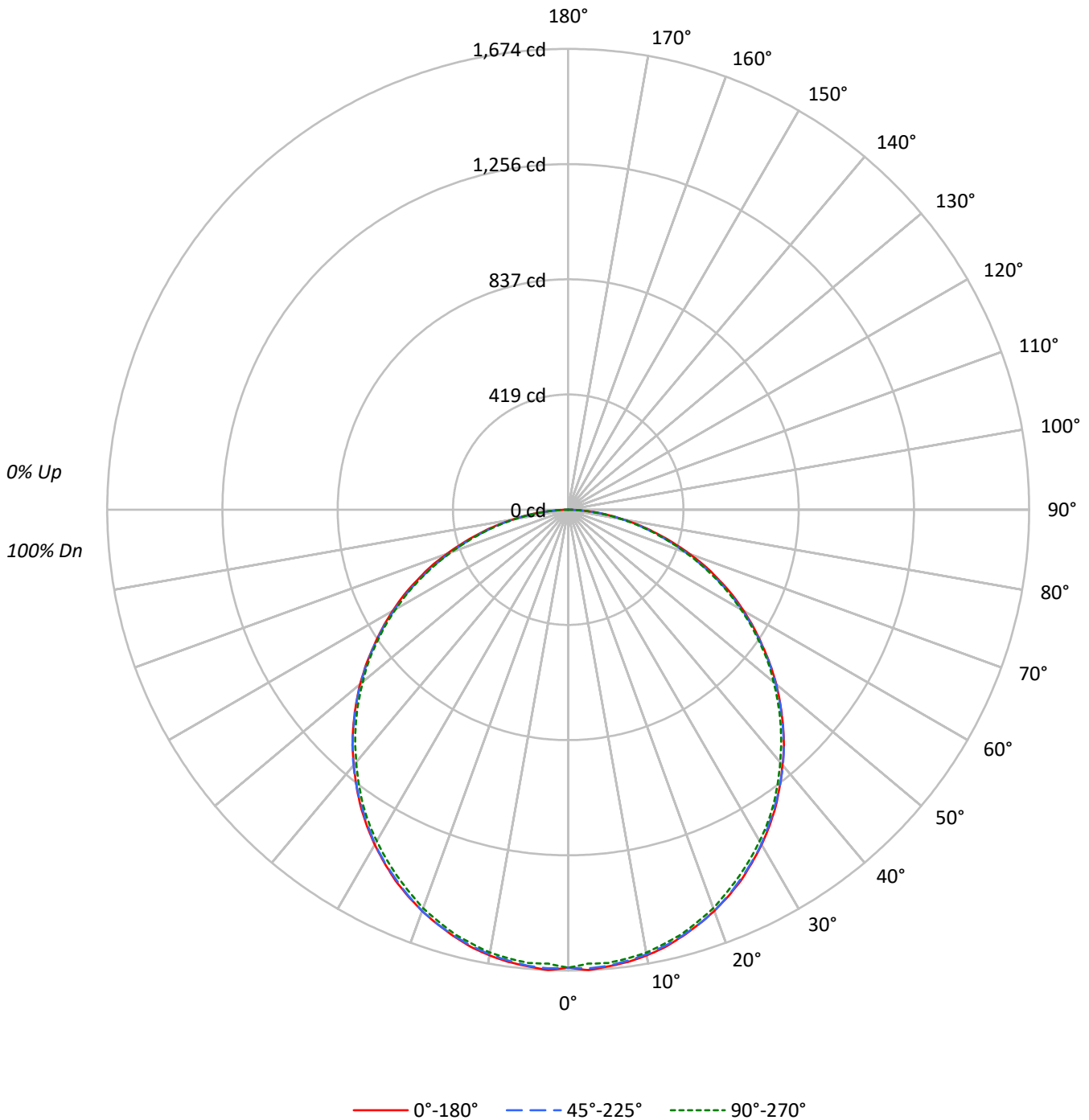
Input Watts (W): 38.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83				83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69				69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58				58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50				50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43				43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37				37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29				29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26				26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24				24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4476	4476	4476
5°	4499	4493	4465
10°	4493	4482	4464
15°	4469	4463	4445
20°	4442	4442	4412
25°	4411	4398	4361
30°	4366	4360	4320
35°	4317	4303	4276
40°	4252	4260	4208
45°	4196	4188	4147
50°	4129	4119	4075
55°	4041	4031	4001
60°	3963	3929	3895
65°	3854	3787	3759
70°	3680	3580	3563
75°	3454	3345	3322
80°	3149	3082	3017
85°	2745	2612	2547



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.5	3.3
10°-20°	450.5	9.5
20°-30°	679.6	14.3
30°-40°	816.2	17.2
40°-50°	845.3	17.8
50°-60°	765.8	16.1
60°-70°	587.8	12.4
70°-80°	342.6	7.2
80°-90°	97.7	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°	1287.5	27.1
0°-40°	2103.7	44.4
0°-60°	3714.9	78.3
0°-90°	4743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4743.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1663	1663	1663	1663	1663	
5°	1666	1653	1663	1653	1653	158
15°	1604	1591	1602	1594	1596	453
25°	1486	1473	1481	1466	1469	684
35°	1314	1306	1310	1295	1302	822
45°	1102	1100	1100	1086	1090	851
55°	861	863	859	846	853	771
65°	605	599	595	588	590	599
75°	332	328	322	317	320	352
85°	89	89	85	80	82	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1663.3	1663.3	1663.3	1663.3	1663.3
2.5°	1673.9	1659.1	1667.6	1659.1	1650.6
5°	1665.5	1652.8	1663.3	1652.8	1652.8
7.5°	1657.0	1644.3	1652.8	1642.2	1644.3
10°	1644.3	1631.6	1640.1	1631.6	1633.7
12.5°	1627.4	1612.6	1623.1	1614.7	1614.7
15°	1604.1	1591.4	1602.0	1593.5	1595.6
17.5°	1578.7	1566.0	1578.7	1568.1	1568.1
20°	1551.2	1538.5	1551.2	1538.5	1540.6
22.5°	1519.4	1508.9	1517.3	1502.5	1504.6
25°	1485.6	1472.9	1481.3	1466.5	1468.7
27.5°	1445.4	1434.8	1443.3	1428.4	1430.6
30°	1405.2	1394.6	1403.0	1386.1	1390.4
32.5°	1360.7	1350.1	1356.5	1343.8	1348.0
35°	1314.2	1305.7	1309.9	1295.1	1301.5
37.5°	1263.4	1257.0	1263.4	1246.4	1250.7
40°	1210.5	1206.2	1212.6	1195.7	1197.8
42.5°	1159.7	1153.3	1159.7	1142.8	1144.9
45°	1102.5	1100.4	1100.4	1085.6	1089.8
47.5°	1045.4	1043.3	1043.3	1028.5	1032.7
50°	986.2	986.2	984.0	969.2	973.5
52.5°	924.8	924.8	922.7	910.0	916.3
55°	861.3	863.4	859.2	846.5	852.8
57.5°	799.9	799.9	795.7	785.1	789.3
60°	736.4	734.3	730.1	719.5	723.7
62.5°	673.0	668.7	662.4	653.9	658.1
65°	605.2	598.9	594.7	588.3	590.4
67.5°	539.6	531.2	524.8	516.4	520.6
70°	467.7	461.3	455.0	448.6	452.9
72.5°	400.0	393.6	387.3	383.0	385.2
75°	332.2	328.0	321.7	317.4	319.5
77.5°	268.8	262.4	260.3	253.9	256.1
80°	203.2	201.0	198.9	192.6	194.7
82.5°	143.9	143.9	139.7	135.4	137.6
85°	88.9	88.9	84.6	80.4	82.5
87.5°	38.1	36.0	36.0	33.9	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)