

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: P395290

Luminaire Tested: **8FSN6-SL1-CA08-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: P395290  
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-L8SCT3-3000K-LO  
Description: 8FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 3000K LEDS AND CA08 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4621.0 lumens  
Efficiency: N/A  
Efficacy: 119.7 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

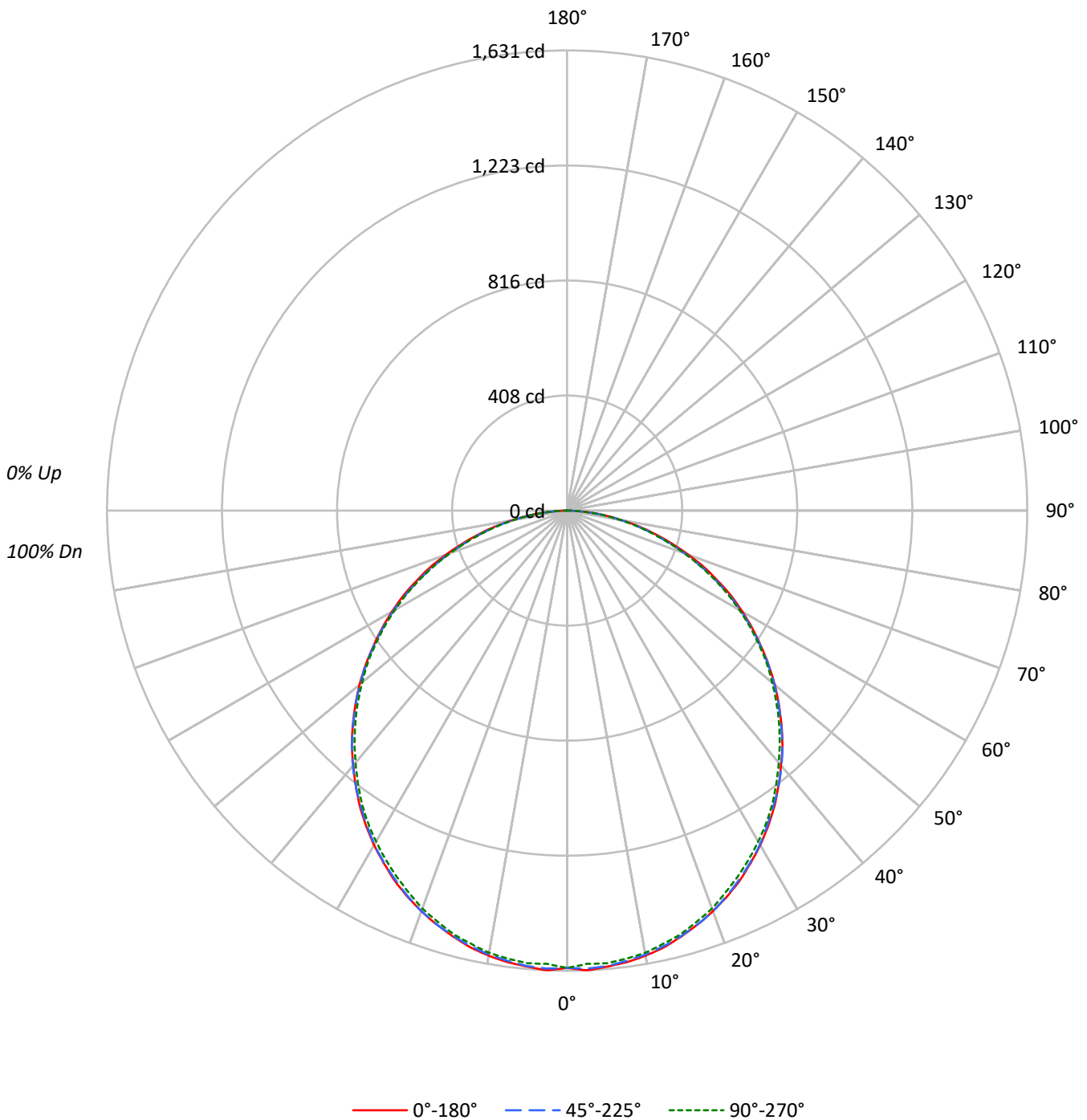
Input Watts (W): 38.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4361	4361	4361
5°	4383	4378	4350
10°	4377	4366	4349
15°	4354	4348	4331
20°	4328	4328	4298
25°	4298	4285	4249
30°	4254	4248	4209
35°	4206	4192	4165
40°	4143	4150	4099
45°	4088	4080	4041
50°	4022	4014	3970
55°	3937	3927	3898
60°	3862	3828	3795
65°	3755	3689	3663
70°	3585	3488	3471
75°	3366	3258	3237
80°	3067	3003	2940
85°	2674	2547	2482



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.4	3.3
10°-20°	438.9	9.5
20°-30°	662.1	14.3
30°-40°	795.2	17.2
40°-50°	823.6	17.8
50°-60°	746.1	16.1
60°-70°	572.7	12.4
70°-80°	333.8	7.2
80°-90°	95.2	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°	1254.4	27.1
0°-40°	2049.6	44.4
0°-60°	3619.3	78.3
0°-90°	4621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4621.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1621	1621	1621	1621	1621	
5°	1623	1610	1621	1610	1610	154
15°	1563	1550	1561	1552	1555	441
25°	1447	1435	1443	1429	1431	666
35°	1280	1272	1276	1262	1268	800
45°	1074	1072	1072	1058	1062	829
55°	839	841	837	825	831	751
65°	590	584	579	573	575	583
75°	324	320	313	309	311	343
85°	87	87	82	78	80	99
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1620.6	1620.6	1620.6	1620.6	1620.6
2.5°	1630.9	1616.4	1624.7	1616.4	1608.2
5°	1622.6	1610.3	1620.6	1610.3	1610.3
7.5°	1614.4	1602.0	1610.3	1599.9	1602.0
10°	1602.0	1589.6	1597.9	1589.6	1591.7
12.5°	1585.5	1571.1	1581.4	1573.1	1573.1
15°	1562.8	1550.5	1560.8	1552.5	1554.6
17.5°	1538.1	1525.7	1538.1	1527.8	1527.8
20°	1511.3	1498.9	1511.3	1498.9	1501.0
22.5°	1480.4	1470.0	1478.3	1463.9	1465.9
25°	1447.4	1435.0	1443.2	1428.8	1430.9
27.5°	1408.2	1397.9	1406.1	1391.7	1393.8
30°	1369.0	1358.7	1367.0	1350.5	1354.6
32.5°	1325.7	1315.4	1321.6	1309.2	1313.4
35°	1280.4	1272.1	1276.2	1261.8	1268.0
37.5°	1230.9	1224.7	1230.9	1214.4	1218.5
40°	1179.3	1175.2	1181.4	1164.9	1167.0
42.5°	1129.9	1123.7	1129.9	1113.4	1115.4
45°	1074.2	1072.1	1072.1	1057.7	1061.8
47.5°	1018.5	1016.5	1016.5	1002.0	1006.1
50°	960.8	960.8	958.7	944.3	948.4
52.5°	901.0	901.0	898.9	886.6	892.8
55°	839.1	841.2	837.1	824.7	830.9
57.5°	779.4	779.4	775.2	764.9	769.0
60°	717.5	715.4	711.3	701.0	705.1
62.5°	655.6	651.5	645.3	637.1	641.2
65°	589.7	583.5	579.4	573.2	575.2
67.5°	525.8	517.5	511.3	503.1	507.2
70°	455.7	449.5	443.3	437.1	441.2
72.5°	389.7	383.5	377.3	373.2	375.2
75°	323.7	319.6	313.4	309.3	311.3
77.5°	261.8	255.7	253.6	247.4	249.5
80°	197.9	195.9	193.8	187.6	189.7
82.5°	140.2	140.2	136.1	132.0	134.0
85°	86.6	86.6	82.5	78.3	80.4
87.5°	37.1	35.1	35.1	33.0	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)