

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: P395296

Luminaire Tested: **8FSN6-SL1-CA08-L8SCT3-4000K-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: P395296
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-L8SCT3-4000K-LO
Description: 8FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 4000K LEDS AND CA08 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4806.0 lumens
Efficiency: N/A
Efficacy: 123.2 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

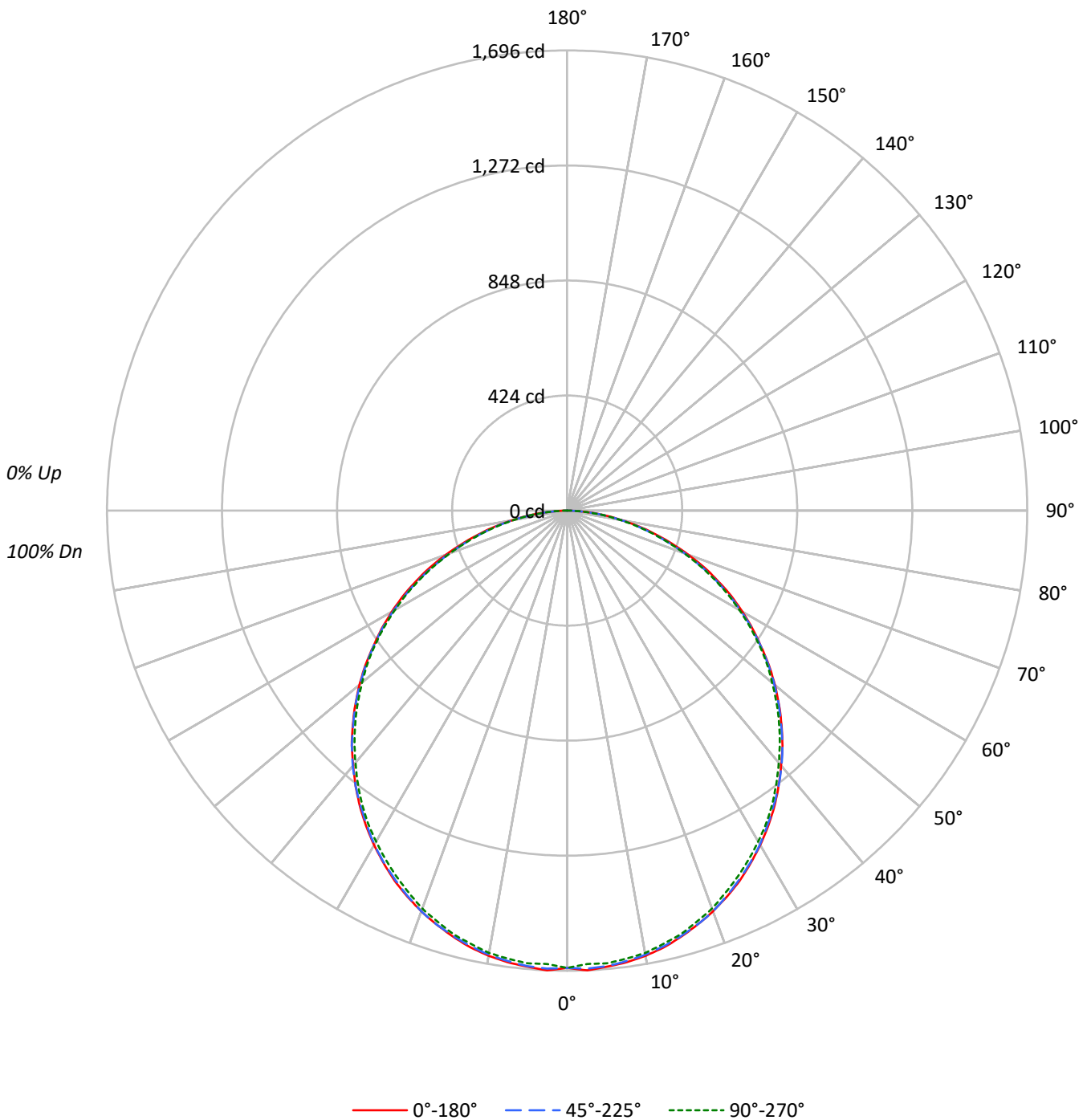
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4535	4535	4535
5°	4559	4553	4524
10°	4553	4541	4523
15°	4528	4522	4504
20°	4501	4501	4470
25°	4469	4457	4419
30°	4424	4418	4378
35°	4374	4360	4332
40°	4309	4316	4264
45°	4252	4243	4203
50°	4183	4174	4129
55°	4094	4084	4054
60°	4016	3982	3947
65°	3905	3837	3810
70°	3729	3627	3611
75°	3501	3388	3367
80°	3191	3124	3058
85°	2782	2649	2581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	3.3
10°-20°	456.5	9.5
20°-30°	688.6	14.3
30°-40°	827.0	17.2
40°-50°	856.6	17.8
50°-60°	776.0	16.1
60°-70°	595.6	12.4
70°-80°	347.2	7.2
80°-90°	99.0	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°	1304.6	27.1
0°-40°	2131.7	44.4
0°-60°	3764.2	78.3
0°-90°	4806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1685	1685	1685	1685	1685	
5°	1688	1675	1685	1675	1675	160
15°	1625	1612	1623	1615	1617	459
25°	1505	1492	1501	1486	1488	693
35°	1332	1323	1327	1312	1319	832
45°	1117	1115	1115	1100	1104	862
55°	873	875	871	858	864	781
65°	613	607	603	596	598	607
75°	337	332	326	322	324	357
85°	90	90	86	82	84	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1685.4	1685.4	1685.4	1685.4	1685.4
2.5°	1696.2	1681.1	1689.7	1681.1	1672.6
5°	1687.6	1674.7	1685.4	1674.7	1674.7
7.5°	1679.0	1666.1	1674.7	1664.0	1666.1
10°	1666.1	1653.3	1661.9	1653.3	1655.4
12.5°	1649.0	1634.0	1644.7	1636.1	1636.1
15°	1625.4	1612.5	1623.3	1614.7	1616.8
17.5°	1599.7	1586.8	1599.7	1588.9	1588.9
20°	1571.8	1558.9	1571.8	1558.9	1561.1
22.5°	1539.6	1528.9	1537.5	1522.5	1524.6
25°	1505.3	1492.4	1501.0	1486.0	1488.2
27.5°	1464.6	1453.9	1462.4	1447.4	1449.6
30°	1423.8	1413.1	1421.7	1404.5	1408.8
32.5°	1378.8	1368.1	1374.5	1361.6	1365.9
35°	1331.6	1323.0	1327.3	1312.3	1318.8
37.5°	1280.2	1273.7	1280.2	1263.0	1267.3
40°	1226.6	1222.3	1228.7	1211.5	1213.7
42.5°	1175.1	1168.7	1175.1	1157.9	1160.1
45°	1117.2	1115.0	1115.0	1100.0	1104.3
47.5°	1059.3	1057.2	1057.2	1042.1	1046.4
50°	999.3	999.3	997.1	982.1	986.4
52.5°	937.1	937.1	934.9	922.1	928.5
55°	872.7	874.9	870.6	857.7	864.2
57.5°	810.6	810.6	806.3	795.5	799.8
60°	746.2	744.1	739.8	729.1	733.4
62.5°	681.9	677.6	671.2	662.6	666.9
65°	613.3	606.8	602.6	596.1	598.3
67.5°	546.8	538.2	531.8	523.2	527.5
70°	473.9	467.5	461.0	454.6	458.9
72.5°	405.3	398.8	392.4	388.1	390.3
75°	336.7	332.4	325.9	321.6	323.8
77.5°	272.3	265.9	263.8	257.3	259.5
80°	205.9	203.7	201.6	195.1	197.3
82.5°	145.8	145.8	141.5	137.2	139.4
85°	90.1	90.1	85.8	81.5	83.6
87.5°	38.6	36.5	36.5	34.3	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)