

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: P395298

Luminaire Tested: **8FSN6-SL1-CA125-L8SCT3-3000K-HI**

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: P395298
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-CA125-L8SCT3-3000K-HI
Description: 8FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3000K LEDS AND CA125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7934.0 lumens
Efficiency: N/A
Efficacy: 102.6 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

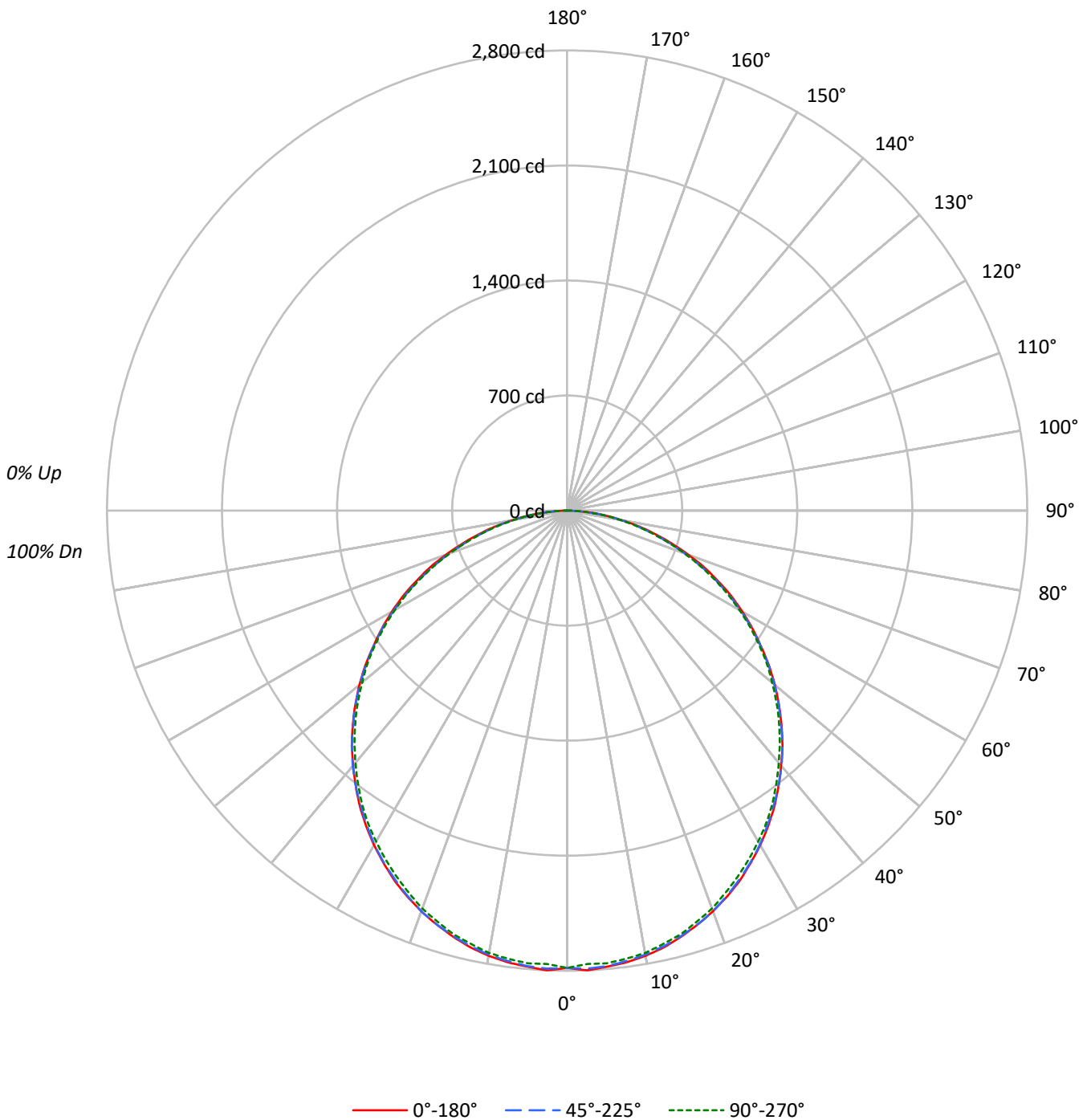
Input Watts (W): 77.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7487	7487	7487
5°	7525	7516	7468
10°	7516	7497	7468
15°	7475	7466	7436
20°	7431	7431	7380
25°	7379	7358	7294
30°	7304	7293	7227
35°	7222	7198	7152
40°	7113	7125	7038
45°	7019	7005	6938
50°	6906	6891	6817
55°	6760	6743	6693
60°	6630	6573	6516
65°	6446	6334	6288
70°	6155	5988	5961
75°	5779	5595	5557
80°	5266	5157	5047
85°	4591	4372	4264



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.4	3.3
10°-20°	753.6	9.5
20°-30°	1136.8	14.3
30°-40°	1365.3	17.2
40°-50°	1414.1	17.8
50°-60°	1281.1	16.1
60°-70°	983.2	12.4
70°-80°	573.1	7.2
80°-90°	163.5	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°	2153.8	27.1
0°-40°	3519.1	44.4
0°-60°	6214.2	78.3
0°-90°	7934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2782	2782	2782	2782	2782	
5°	2786	2765	2782	2765	2765	265
15°	2683	2662	2680	2666	2669	757
25°	2485	2464	2478	2453	2457	1144
35°	2198	2184	2191	2166	2177	1374
45°	1844	1841	1841	1816	1823	1423
55°	1441	1444	1437	1416	1427	1290
65°	1012	1002	995	984	988	1002
75°	556	549	538	531	534	590
85°	149	149	142	134	138	169
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2782.4	2782.4	2782.4	2782.4	2782.4
2.5°	2800.1	2775.3	2789.5	2775.3	2761.2
5°	2785.9	2764.7	2782.4	2764.7	2764.7
7.5°	2771.8	2750.6	2764.7	2747.0	2750.6
10°	2750.6	2729.3	2743.5	2729.3	2732.9
12.5°	2722.2	2697.5	2715.2	2701.0	2701.0
15°	2683.3	2662.1	2679.8	2665.6	2669.1
17.5°	2640.8	2619.6	2640.8	2623.1	2623.1
20°	2594.8	2573.6	2594.8	2573.6	2577.1
22.5°	2541.7	2524.0	2538.2	2513.4	2516.9
25°	2485.1	2463.8	2478.0	2453.2	2456.7
27.5°	2417.8	2400.1	2414.3	2389.5	2393.0
30°	2350.5	2332.8	2347.0	2318.7	2325.8
32.5°	2276.2	2258.5	2269.1	2247.9	2255.0
35°	2198.3	2184.2	2191.2	2166.5	2177.1
37.5°	2113.4	2102.7	2113.4	2085.0	2092.1
40°	2024.9	2017.8	2028.4	2000.1	2003.6
42.5°	1939.9	1929.3	1939.9	1911.6	1915.1
45°	1844.3	1840.8	1840.8	1816.0	1823.1
47.5°	1748.7	1745.2	1745.2	1720.4	1727.5
50°	1649.6	1649.6	1646.1	1621.3	1628.4
52.5°	1547.0	1547.0	1543.4	1522.2	1532.8
55°	1440.8	1444.3	1437.2	1416.0	1426.6
57.5°	1338.1	1338.1	1331.0	1313.3	1320.4
60°	1231.9	1228.4	1221.3	1203.6	1210.7
62.5°	1125.7	1118.6	1108.0	1093.8	1100.9
65°	1012.4	1001.8	994.7	984.1	987.6
67.5°	902.7	888.5	877.9	863.8	870.8
70°	782.3	771.7	761.1	750.5	757.6
72.5°	669.1	658.4	647.8	640.7	644.3
75°	555.8	548.7	538.1	531.0	534.5
77.5°	449.6	439.0	435.4	424.8	428.3
80°	339.8	336.3	332.8	322.1	325.7
82.5°	240.7	240.7	233.6	226.6	230.1
85°	148.7	148.7	141.6	134.5	138.1
87.5°	63.7	60.2	60.2	56.6	56.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)