

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: P395328

Luminaire Tested: **8FSN6-SL1-CP250-L8SCT3-3500K-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: P395328  
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-CP250-L8SCT3-3500K-HI  
Description: 8FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3500K LEDS AND CP250 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7737.0 lumens  
Efficiency: N/A  
Efficacy: 100.1 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

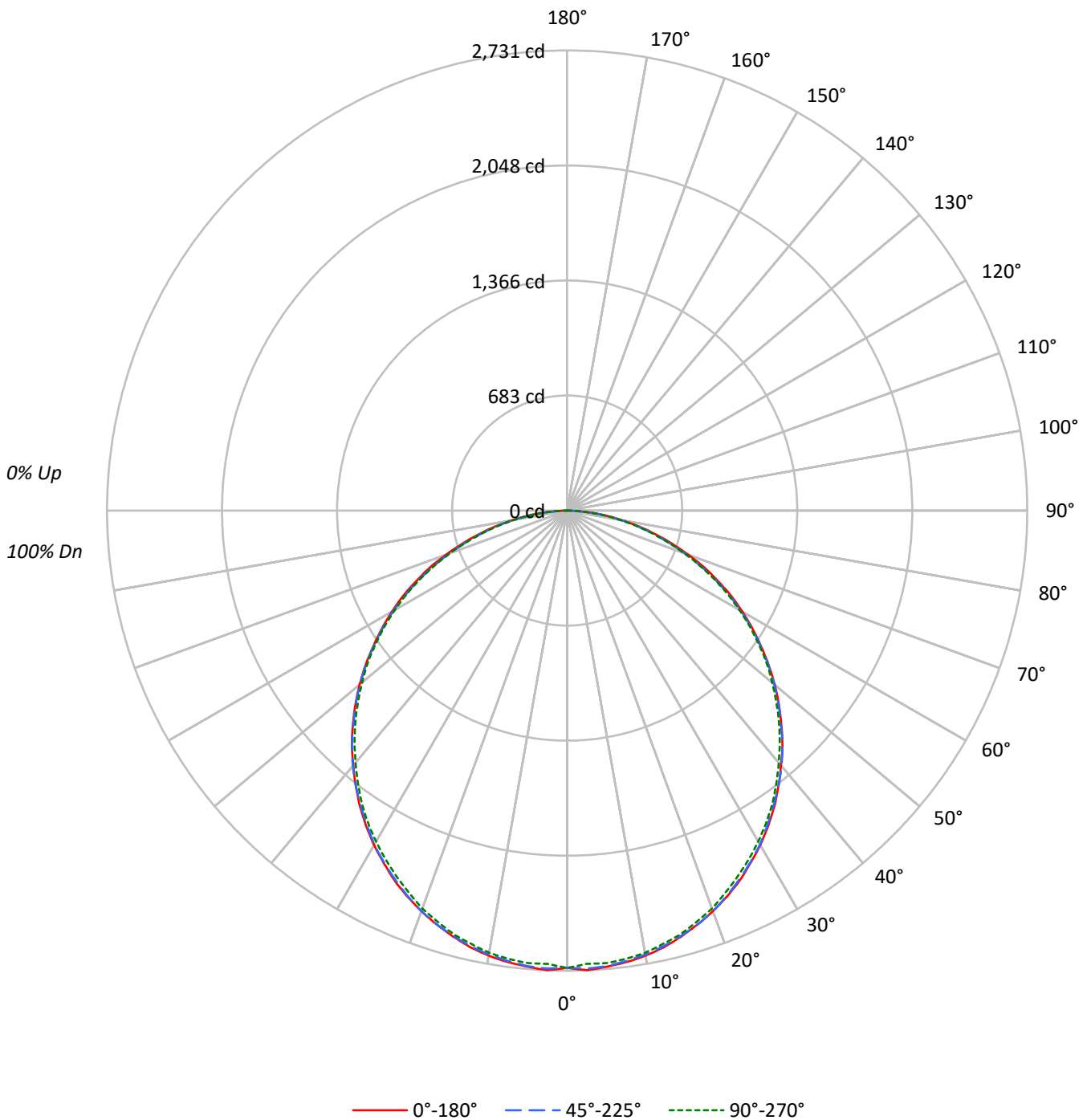
Input Watts (W): 77.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	7301	7301	7301
5°	7339	7329	7283
10°	7329	7311	7282
15°	7290	7280	7251
20°	7246	7246	7197
25°	7195	7175	7113
30°	7122	7112	7047
35°	7042	7020	6974
40°	6936	6948	6864
45°	6844	6831	6766
50°	6735	6720	6648
55°	6592	6575	6527
60°	6465	6410	6354
65°	6287	6176	6132
70°	6002	5840	5812
75°	5635	5455	5420
80°	5136	5029	4922
85°	4477	4264	4156



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.9	3.3
10°-20°	734.9	9.5
20°-30°	1108.6	14.3
30°-40°	1331.4	17.2
40°-50°	1378.9	17.8
50°-60°	1249.2	16.1
60°-70°	958.8	12.4
70°-80°	558.9	7.2
80°-90°	159.4	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°	2100.3	27.1
0°-40°	3431.7	44.4
0°-60°	6059.9	78.3
0°-90°	7737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7737.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2713	2713	2713	2713	2713	
5°	2717	2696	2713	2696	2696	258
15°	2617	2596	2613	2599	2603	739
25°	2423	2403	2416	2392	2396	1116
35°	2144	2130	2137	2113	2123	1340
45°	1798	1795	1795	1771	1778	1388
55°	1405	1408	1402	1381	1391	1258
65°	987	977	970	960	963	977
75°	542	535	525	518	521	575
85°	145	145	138	131	135	165
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2713.3	2713.3	2713.3	2713.3	2713.3
2.5°	2730.6	2706.4	2720.2	2706.4	2692.6
5°	2716.8	2696.1	2713.3	2696.1	2696.1
7.5°	2703.0	2682.3	2696.1	2678.8	2682.3
10°	2682.3	2661.5	2675.4	2661.5	2665.0
12.5°	2654.6	2630.5	2647.7	2633.9	2633.9
15°	2616.7	2596.0	2613.2	2599.4	2602.9
17.5°	2575.2	2554.5	2575.2	2558.0	2558.0
20°	2530.4	2509.7	2530.4	2509.7	2513.1
22.5°	2478.6	2461.3	2475.1	2451.0	2454.4
25°	2423.3	2402.6	2416.4	2392.3	2395.7
27.5°	2357.8	2340.5	2354.3	2330.1	2333.6
30°	2292.2	2274.9	2288.7	2261.1	2268.0
32.5°	2219.7	2202.4	2212.8	2192.1	2199.0
35°	2143.7	2129.9	2136.8	2112.7	2123.0
37.5°	2060.9	2050.5	2060.9	2033.3	2040.2
40°	1974.6	1967.7	1978.0	1950.4	1953.9
42.5°	1891.7	1881.4	1891.7	1864.1	1867.6
45°	1798.5	1795.1	1795.1	1770.9	1777.8
47.5°	1705.3	1701.9	1701.9	1677.7	1684.6
50°	1608.7	1608.7	1605.2	1581.0	1587.9
52.5°	1508.6	1508.6	1505.1	1484.4	1494.7
55°	1405.0	1408.4	1401.5	1380.8	1391.2
57.5°	1304.9	1304.9	1298.0	1280.7	1287.6
60°	1201.3	1197.9	1191.0	1173.7	1180.6
62.5°	1097.8	1090.9	1080.5	1066.7	1073.6
65°	987.3	976.9	970.0	959.7	963.1
67.5°	880.3	866.5	856.1	842.3	849.2
70°	762.9	752.6	742.2	731.8	738.7
72.5°	652.4	642.1	631.7	624.8	628.3
75°	542.0	535.1	524.7	517.8	521.3
77.5°	438.4	428.1	424.6	414.2	417.7
80°	331.4	327.9	324.5	314.1	317.6
82.5°	234.7	234.7	227.8	220.9	224.4
85°	145.0	145.0	138.1	131.2	134.6
87.5°	62.1	58.7	58.7	55.2	55.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)