

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: P395325

Luminaire Tested: **8FSN6-SL1-CP250-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: P395325  
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-L8SCT3-3000K-HI  
Description: 8FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3000K LEDS AND CP250 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7519.0 lumens  
Efficiency: N/A  
Efficacy: 97.3 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

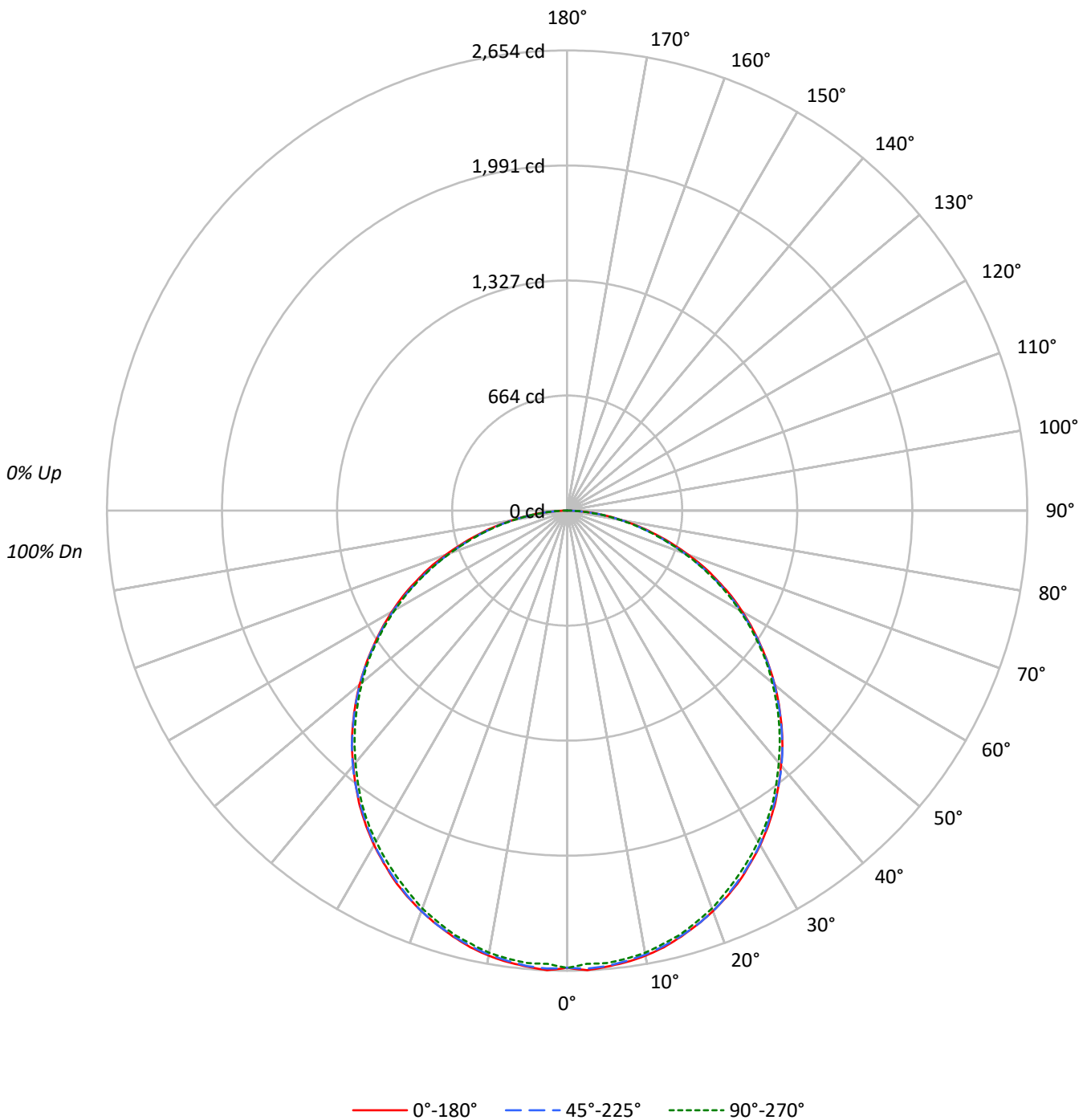
Input Watts (W): 77.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395325

CATALOG NUMBER: 8FSN6-SL1-CP250-L8SCT3-3000K-HI

### Luminous Intensity Polar Plot





TEST NUMBER: P395325

CATALOG NUMBER: 8FSN6-SL1-CP250-L8SCT3-3000K-HI

**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°	7096	7096	7096
5°	7132	7123	7078
10°	7123	7104	7077
15°	7084	7075	7047
20°	7042	7042	6994
25°	6993	6973	6913
30°	6922	6911	6849
35°	6844	6822	6778
40°	6741	6753	6670
45°	6652	6639	6575
50°	6545	6531	6460
55°	6406	6390	6343
60°	6283	6229	6175
65°	6110	6003	5960
70°	5833	5675	5648
75°	5476	5302	5267
80°	4991	4888	4782
85°	4350	4143	4039



TEST NUMBER: P395325

CATALOG NUMBER: 8FSN6-SL1-CP250-L8SCT3-3000K-HI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.6	3.3
10°-20°	714.2	9.5
20°-30°	1077.3	14.3
30°-40°	1293.9	17.2
40°-50°	1340.1	17.8
50°-60°	1214.0	16.1
60°-70°	931.8	12.4
70°-80°	543.1	7.2
80°-90°	154.9	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°	2041.1	27.1
0°-40°	3335.0	44.4
0°-60°	5889.1	78.3
0°-90°	7519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7519.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2637	2637	2637	2637	2637	
5°	2640	2620	2637	2620	2620	251
15°	2543	2523	2540	2526	2530	718
25°	2355	2335	2348	2325	2328	1084
35°	2083	2070	2077	2053	2063	1302
45°	1748	1744	1744	1721	1728	1349
55°	1365	1369	1362	1342	1352	1222
65°	960	949	943	933	936	949
75°	527	520	510	503	507	559
85°	141	141	134	128	131	161
90°	0	0	0	0	0	



TEST NUMBER: P395325

CATALOG NUMBER: 8FSN6-SL1-CP250-L8SCT3-3000K-HI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2636.9	2636.9	2636.9	2636.9	2636.9
2.5°	2653.6	2630.2	2643.6	2630.2	2616.7
5°	2640.2	2620.1	2636.9	2620.1	2620.1
7.5°	2626.8	2606.7	2620.1	2603.3	2606.7
10°	2606.7	2586.5	2600.0	2586.5	2589.9
12.5°	2579.8	2556.4	2573.1	2559.7	2559.7
15°	2542.9	2522.8	2539.6	2526.2	2529.5
17.5°	2502.7	2482.6	2502.7	2485.9	2485.9
20°	2459.1	2438.9	2459.1	2438.9	2442.3
22.5°	2408.7	2392.0	2405.4	2381.9	2385.3
25°	2355.1	2334.9	2348.4	2324.9	2328.2
27.5°	2291.3	2274.6	2288.0	2264.5	2267.8
30°	2227.6	2210.8	2224.2	2197.4	2204.1
32.5°	2157.1	2140.4	2150.4	2130.3	2137.0
35°	2083.3	2069.9	2076.6	2053.1	2063.2
37.5°	2002.8	1992.8	2002.8	1976.0	1982.7
40°	1918.9	1912.2	1922.3	1895.5	1898.8
42.5°	1838.4	1828.4	1838.4	1811.6	1814.9
45°	1747.9	1744.5	1744.5	1721.0	1727.7
47.5°	1657.3	1653.9	1653.9	1630.4	1637.1
50°	1563.3	1563.3	1560.0	1536.5	1543.2
52.5°	1466.0	1466.0	1462.7	1442.6	1452.6
55°	1365.4	1368.8	1362.0	1341.9	1352.0
57.5°	1268.1	1268.1	1261.4	1244.6	1251.3
60°	1167.5	1164.1	1157.4	1140.6	1147.3
62.5°	1066.8	1060.1	1050.1	1036.6	1043.3
65°	959.5	949.4	942.7	932.6	936.0
67.5°	855.5	842.1	832.0	818.6	825.3
70°	741.4	731.3	721.3	711.2	717.9
72.5°	634.1	624.0	613.9	607.2	610.6
75°	526.7	520.0	509.9	503.2	506.6
77.5°	426.1	416.0	412.6	402.6	405.9
80°	322.1	318.7	315.4	305.3	308.6
82.5°	228.1	228.1	221.4	214.7	218.1
85°	140.9	140.9	134.2	127.5	130.8
87.5°	60.4	57.0	57.0	53.7	53.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)