

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: P395295

Luminaire Tested: **8FSN6-SL1-CA08-L8SCT3-4000K-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: P395295
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-HI
Description: 8FT FSN LINEAR LED FIXTURE WITH HIGH 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: 8280.0 lumens
Efficiency: N/A
Efficacy: 105.2 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

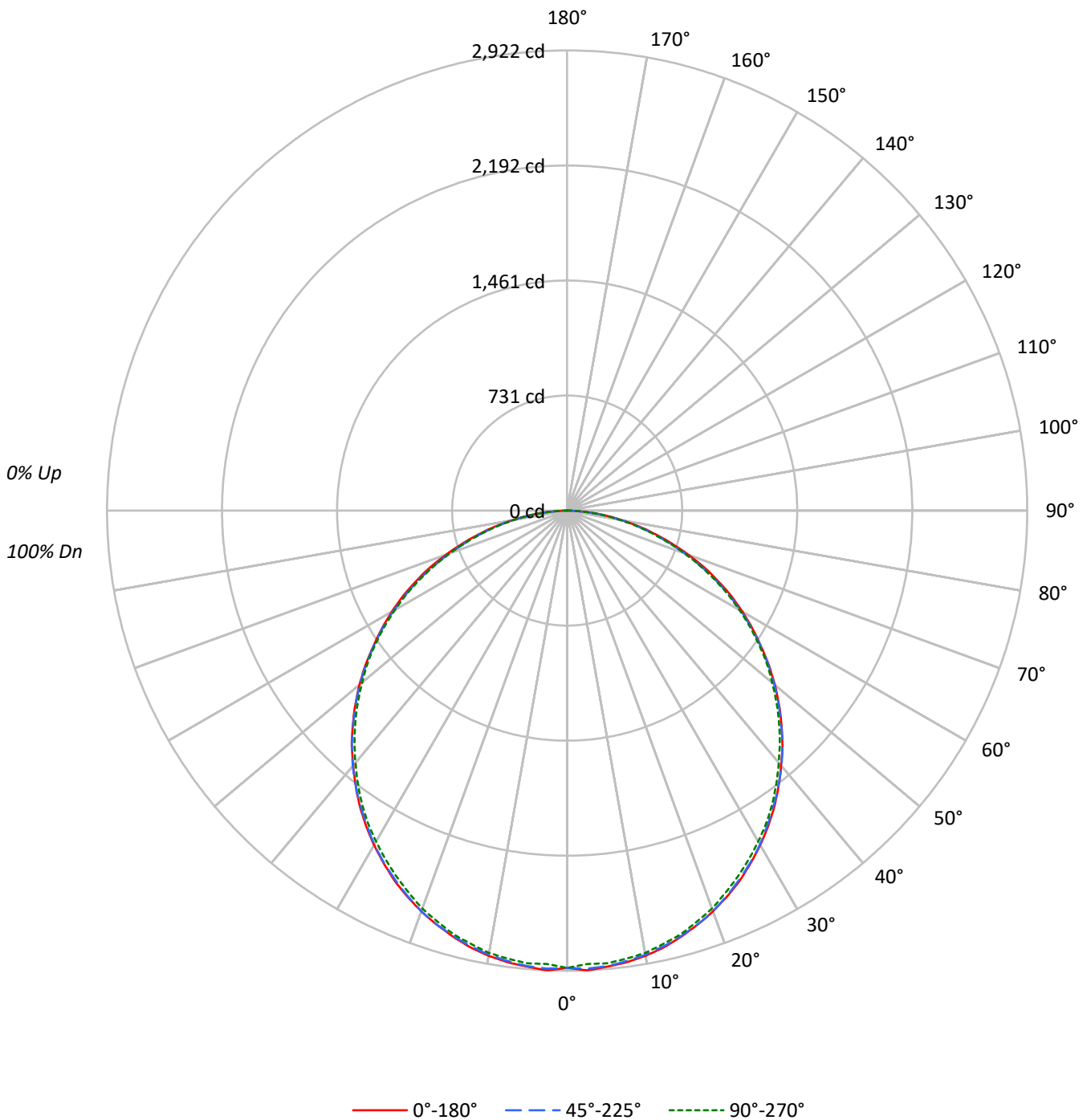
Input Watts (W): 78.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395295

CATALOG NUMBER: 8FSN6-SL1-CA08-L8SCT3-4000K-HI

Luminous Intensity Polar Plot





TEST NUMBER: P395295

CATALOG NUMBER: 8FSN6-SL1-CA08-L8SCT3-4000K-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°	7814	7814	7814
5°	7854	7844	7794
10°	7844	7823	7793
15°	7801	7791	7760
20°	7755	7755	7702
25°	7700	7678	7613
30°	7622	7611	7542
35°	7537	7512	7464
40°	7423	7436	7345
45°	7325	7311	7241
50°	7207	7192	7114
55°	7054	7037	6985
60°	6919	6859	6800
65°	6728	6610	6563
70°	6423	6249	6220
75°	6030	5838	5800
80°	5497	5382	5267
85°	4792	4563	4449



TEST NUMBER: P395295

CATALOG NUMBER: 8FSN6-SL1-CA08-L8SCT3-4000K-HI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.9	3.3
10°-20°	786.4	9.5
20°-30°	1186.4	14.3
30°-40°	1424.8	17.2
40°-50°	1475.7	17.8
50°-60°	1336.9	16.1
60°-70°	1026.1	12.4
70°-80°	598.1	7.2
80°-90°	170.6	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°	2247.7	27.1
0°-40°	3672.5	44.4
0°-60°	6485.2	78.3
0°-90°	8280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2904	2904	2904	2904	2904	
5°	2907	2885	2904	2885	2885	276
15°	2800	2778	2797	2782	2786	790
25°	2593	2571	2586	2560	2564	1194
35°	2294	2279	2287	2261	2272	1434
45°	1925	1921	1921	1895	1903	1485
55°	1504	1507	1500	1478	1489	1346
65°	1057	1046	1038	1027	1031	1045
75°	580	573	562	554	558	615
85°	155	155	148	140	144	177
90°	0	0	0	0	0	



TEST NUMBER: P395295

CATALOG NUMBER: 8FSN6-SL1-CA08-L8SCT3-4000K-HI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2903.8	2903.8	2903.8	2903.8	2903.8
2.5°	2922.2	2896.4	2911.1	2896.4	2881.6
5°	2907.4	2885.3	2903.8	2885.3	2885.3
7.5°	2892.7	2870.5	2885.3	2866.8	2870.5
10°	2870.5	2848.3	2863.1	2848.3	2852.0
12.5°	2840.9	2815.1	2833.6	2818.8	2818.8
15°	2800.3	2778.1	2796.6	2781.8	2785.5
17.5°	2756.0	2733.8	2756.0	2737.5	2737.5
20°	2708.0	2685.8	2708.0	2685.8	2689.5
22.5°	2652.5	2634.1	2648.8	2623.0	2626.7
25°	2593.4	2571.3	2586.0	2560.2	2563.9
27.5°	2523.2	2504.8	2519.5	2493.7	2497.4
30°	2453.0	2434.6	2449.3	2419.8	2427.2
32.5°	2375.5	2357.0	2368.1	2345.9	2353.3
35°	2294.2	2279.4	2286.8	2260.9	2272.0
37.5°	2205.5	2194.4	2205.5	2176.0	2183.4
40°	2113.2	2105.8	2116.9	2087.3	2091.0
42.5°	2024.5	2013.4	2024.5	1994.9	1998.6
45°	1924.8	1921.1	1921.1	1895.2	1902.6
47.5°	1825.0	1821.3	1821.3	1795.4	1802.8
50°	1721.6	1721.6	1717.9	1692.0	1699.4
52.5°	1614.4	1614.4	1610.7	1588.6	1599.6
55°	1503.6	1507.3	1499.9	1477.7	1488.8
57.5°	1396.5	1396.5	1389.1	1370.6	1378.0
60°	1285.6	1281.9	1274.5	1256.1	1263.5
62.5°	1174.8	1167.4	1156.3	1141.6	1148.9
65°	1056.6	1045.5	1038.1	1027.0	1030.7
67.5°	942.1	927.3	916.2	901.4	908.8
70°	816.4	805.4	794.3	783.2	790.6
72.5°	698.2	687.1	676.1	668.7	672.4
75°	580.0	572.6	561.5	554.2	557.8
77.5°	469.2	458.1	454.4	443.3	447.0
80°	354.7	351.0	347.3	336.2	339.9
82.5°	251.2	251.2	243.8	236.4	240.1
85°	155.2	155.2	147.8	140.4	144.1
87.5°	66.5	62.8	62.8	59.1	59.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)