

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: P395289

Luminaire Tested: **8FSN6-SL1-CA08-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: P395289
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-L8SCT3-3000K-HI
Description: 8FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3000K LEDS AND CA08 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7981.0 lumens
Efficiency: N/A
Efficacy: 103.2 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

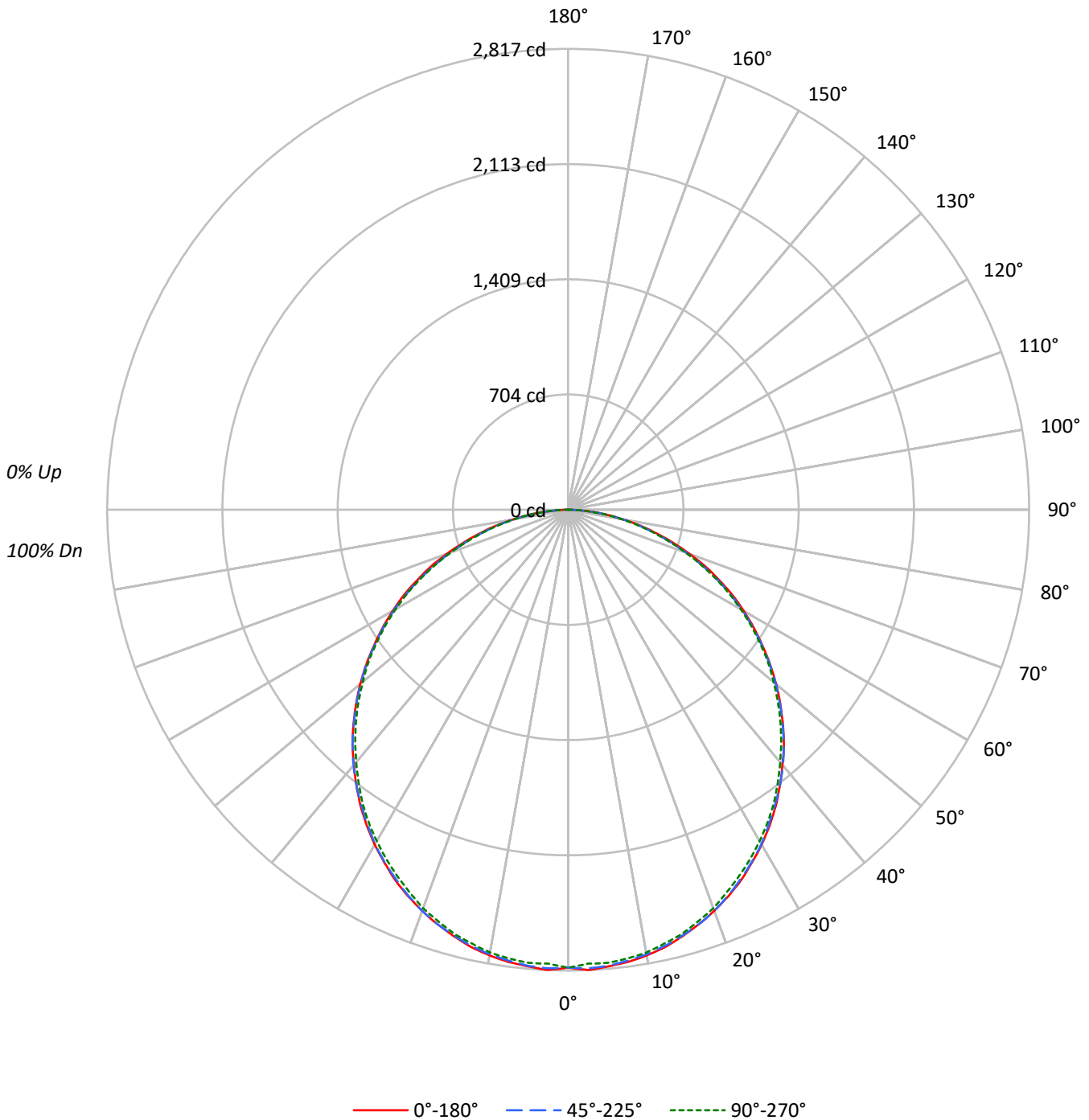
Input Watts (W): 77.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7532	7532	7532
5°	7570	7561	7512
10°	7560	7541	7512
15°	7520	7510	7480
20°	7475	7475	7424
25°	7422	7401	7338
30°	7347	7336	7269
35°	7264	7241	7194
40°	7155	7168	7080
45°	7060	7047	6979
50°	6947	6932	6857
55°	6800	6783	6733
60°	6669	6612	6554
65°	6485	6371	6326
70°	6192	6024	5995
75°	5813	5628	5591
80°	5297	5187	5077
85°	4619	4397	4289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.0	3.3
10°-20°	758.0	9.5
20°-30°	1143.5	14.3
30°-40°	1373.4	17.2
40°-50°	1422.4	17.8
50°-60°	1288.6	16.1
60°-70°	989.1	12.4
70°-80°	576.5	7.2
80°-90°	164.4	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°	2166.5	27.1
0°-40°	3539.9	44.4
0°-60°	6251.0	78.3
0°-90°	7981.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2799	2799	2799	2799	2799	
5°	2802	2781	2799	2781	2781	266
15°	2699	2678	2696	2681	2685	762
25°	2500	2478	2493	2468	2471	1151
35°	2211	2197	2204	2179	2190	1382
45°	1855	1852	1852	1827	1834	1431
55°	1449	1453	1446	1424	1435	1297
65°	1018	1008	1001	990	994	1008
75°	559	552	541	534	538	593
85°	150	150	142	135	139	170
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2798.9	2798.9	2798.9	2798.9	2798.9
2.5°	2816.7	2791.8	2806.0	2791.8	2777.5
5°	2802.5	2781.1	2798.9	2781.1	2781.1
7.5°	2788.2	2766.8	2781.1	2763.3	2766.8
10°	2766.8	2745.5	2759.7	2745.5	2749.0
12.5°	2738.4	2713.4	2731.2	2717.0	2717.0
15°	2699.2	2677.8	2695.6	2681.4	2684.9
17.5°	2656.5	2635.1	2656.5	2638.7	2638.7
20°	2610.2	2588.8	2610.2	2588.8	2592.4
22.5°	2556.7	2538.9	2553.2	2528.3	2531.8
25°	2499.8	2478.4	2492.7	2467.7	2471.3
27.5°	2432.1	2414.3	2428.6	2403.6	2407.2
30°	2364.5	2346.7	2360.9	2332.4	2339.5
32.5°	2289.7	2271.9	2282.6	2261.2	2268.3
35°	2211.3	2197.1	2204.2	2179.3	2190.0
37.5°	2125.9	2115.2	2125.9	2097.4	2104.5
40°	2036.9	2029.7	2040.4	2011.9	2015.5
42.5°	1951.4	1940.7	1951.4	1922.9	1926.5
45°	1855.2	1851.7	1851.7	1826.8	1833.9
47.5°	1759.1	1755.5	1755.5	1730.6	1737.7
50°	1659.4	1659.4	1655.8	1630.9	1638.0
52.5°	1556.1	1556.1	1552.6	1531.2	1541.9
55°	1449.3	1452.9	1445.7	1424.4	1435.1
57.5°	1346.0	1346.0	1338.9	1321.1	1328.2
60°	1239.2	1235.6	1228.5	1210.7	1217.8
62.5°	1132.4	1125.3	1114.6	1100.3	1107.4
65°	1018.4	1007.7	1000.6	989.9	993.5
67.5°	908.0	893.8	883.1	868.9	876.0
70°	787.0	776.3	765.6	754.9	762.0
72.5°	673.0	662.3	651.7	644.5	648.1
75°	559.1	551.9	541.3	534.1	537.7
77.5°	452.2	441.6	438.0	427.3	430.9
80°	341.8	338.3	334.7	324.0	327.6
82.5°	242.1	242.1	235.0	227.9	231.5
85°	149.6	149.6	142.4	135.3	138.9
87.5°	64.1	60.5	60.5	57.0	57.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)