

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: P395301

Luminaire Tested: **8FSN6-SL1-CA125-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: P395301
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-L8SCT3-3500K-HI
Description: 8FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3500K LEDS AND CA125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8164.0 lumens
Efficiency: N/A
Efficacy: 105.6 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

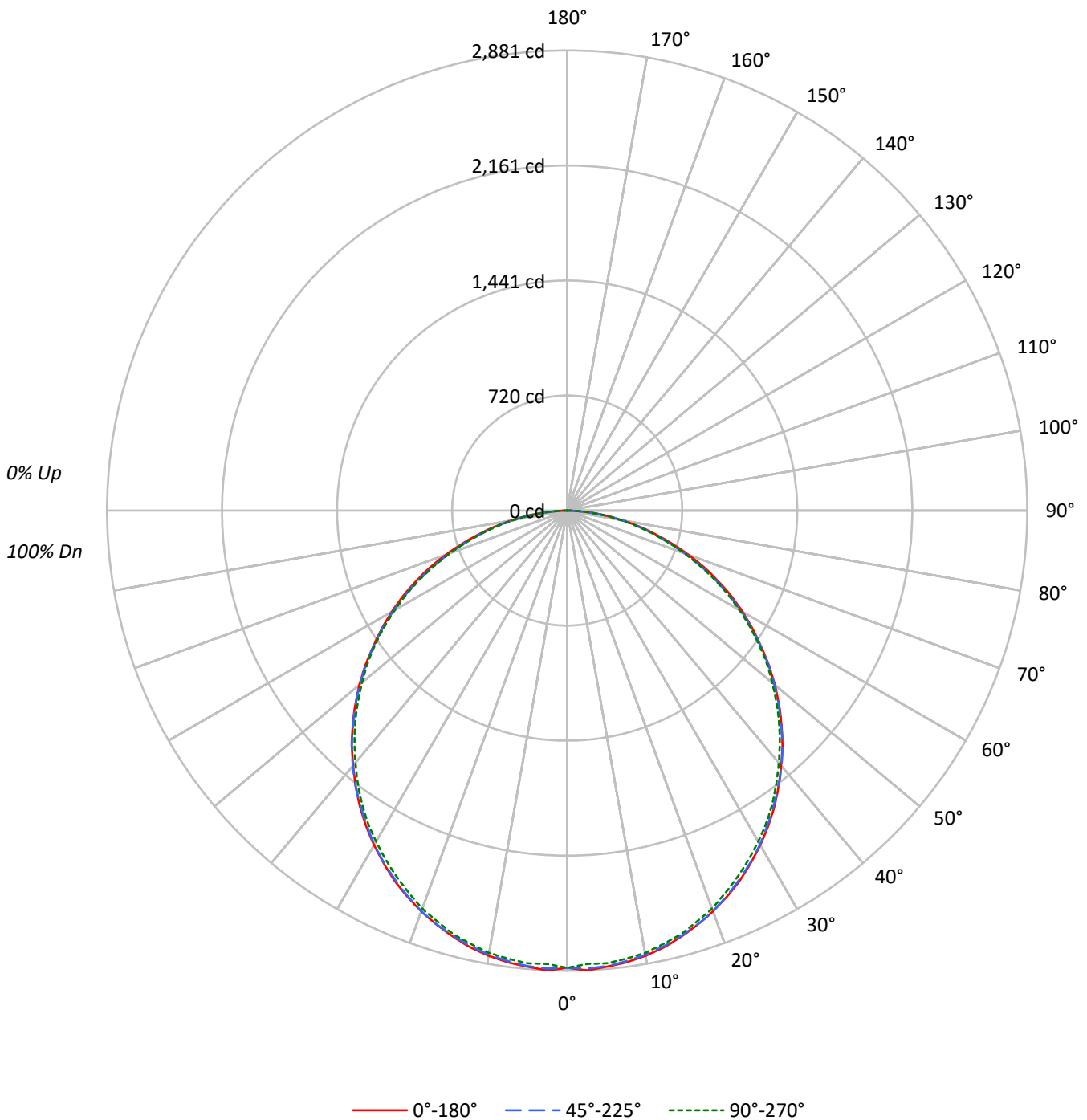
Input Watts (W): 77.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7705	7705	7705
5°	7744	7734	7685
10°	7734	7714	7684
15°	7692	7682	7651
20°	7646	7646	7594
25°	7592	7571	7506
30°	7516	7504	7436
35°	7431	7407	7359
40°	7319	7332	7242
45°	7222	7208	7139
50°	7106	7091	7015
55°	6955	6938	6887
60°	6822	6764	6705
65°	6634	6518	6471
70°	6334	6162	6133
75°	5946	5757	5718
80°	5419	5306	5193
85°	4724	4499	4387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.0	3.3
10°-20°	775.4	9.5
20°-30°	1169.8	14.3
30°-40°	1404.9	17.2
40°-50°	1455.0	17.8
50°-60°	1318.2	16.1
60°-70°	1011.8	12.4
70°-80°	589.7	7.2
80°-90°	168.2	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°	2216.2	27.1
0°-40°	3621.1	44.4
0°-60°	6394.3	78.3
0°-90°	8164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2863	2863	2863	2863	2863	
5°	2867	2845	2863	2845	2845	273
15°	2761	2739	2757	2743	2746	779
25°	2557	2535	2550	2524	2528	1177
35°	2262	2248	2255	2229	2240	1414
45°	1898	1894	1894	1869	1876	1464
55°	1482	1486	1479	1457	1468	1327
65°	1042	1031	1024	1013	1016	1031
75°	572	565	554	546	550	607
85°	153	153	146	138	142	174
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2863.1	2863.1	2863.1	2863.1	2863.1
2.5°	2881.3	2855.8	2870.4	2855.8	2841.2
5°	2866.7	2844.9	2863.1	2844.9	2844.9
7.5°	2852.1	2830.3	2844.9	2826.6	2830.3
10°	2830.3	2808.4	2823.0	2808.4	2812.1
12.5°	2801.1	2775.6	2793.9	2779.3	2779.3
15°	2761.1	2739.2	2757.4	2742.9	2746.5
17.5°	2717.4	2695.5	2717.4	2699.2	2699.2
20°	2670.0	2648.2	2670.0	2648.2	2651.8
22.5°	2615.4	2597.2	2611.7	2586.2	2589.9
25°	2557.1	2535.2	2549.8	2524.3	2528.0
27.5°	2487.9	2469.7	2484.2	2458.7	2462.4
30°	2418.7	2400.5	2415.0	2385.9	2393.2
32.5°	2342.2	2324.0	2334.9	2313.0	2320.3
35°	2262.0	2247.5	2254.8	2229.3	2240.2
37.5°	2174.6	2163.7	2174.6	2145.5	2152.8
40°	2083.6	2076.3	2087.2	2058.1	2061.7
42.5°	1996.1	1985.2	1996.1	1967.0	1970.6
45°	1897.8	1894.1	1894.1	1868.6	1875.9
47.5°	1799.4	1795.8	1795.8	1770.3	1777.6
50°	1697.4	1697.4	1693.8	1668.3	1675.6
52.5°	1591.8	1591.8	1588.2	1566.3	1577.2
55°	1482.5	1486.2	1478.9	1457.0	1468.0
57.5°	1376.9	1376.9	1369.6	1351.4	1358.7
60°	1267.6	1264.0	1256.7	1238.5	1245.8
62.5°	1158.3	1151.1	1140.1	1125.6	1132.8
65°	1041.8	1030.9	1023.6	1012.6	1016.3
67.5°	928.9	914.3	903.4	888.8	896.1
70°	805.0	794.1	783.2	772.2	779.5
72.5°	688.4	677.5	666.6	659.3	662.9
75°	571.9	564.6	553.7	546.4	550.0
77.5°	462.6	451.7	448.0	437.1	440.8
80°	349.7	346.0	342.4	331.5	335.1
82.5°	247.7	247.7	240.4	233.1	236.8
85°	153.0	153.0	145.7	138.4	142.1
87.5°	65.6	61.9	61.9	58.3	58.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)