

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: P395201

Luminaire Tested: **4FSN6-SL1-CA08-L8SCT3-3000K-MID**

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: P395201
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: 4FSN6-SL1-CA08-L8SCT3-3000K-MID
Description: 4FT FSN LINEAR LED FIXTURE WITH MID 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: 3201.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

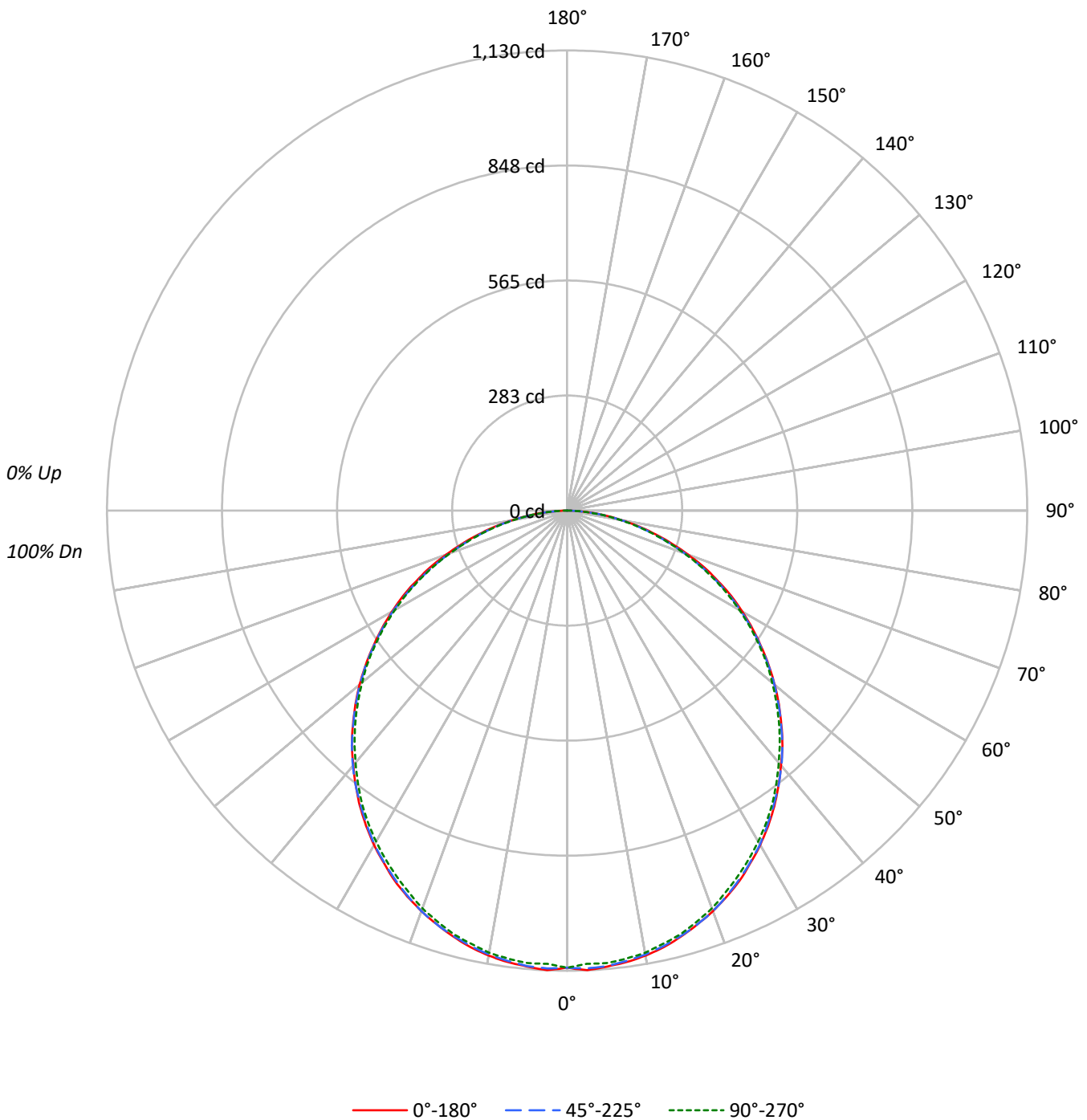
Input Watts (W): 27.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6042	6042	6042
5°	6072	6065	6026
10°	6064	6049	6026
15°	6032	6024	6000
20°	5996	5996	5955
25°	5954	5937	5886
30°	5893	5885	5831
35°	5827	5809	5771
40°	5739	5750	5680
45°	5664	5653	5598
50°	5572	5560	5501
55°	5454	5441	5401
60°	5350	5303	5257
65°	5202	5110	5075
70°	4966	4832	4809
75°	4662	4514	4485
80°	4249	4162	4073
85°	3705	3526	3440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	3.3
10°-20°	304.0	9.5
20°-30°	458.6	14.3
30°-40°	550.8	17.2
40°-50°	570.5	17.8
50°-60°	516.8	16.1
60°-70°	396.7	12.4
70°-80°	231.2	7.2
80°-90°	66.0	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°	868.9	27.1
0°-40°	1419.8	44.4
0°-60°	2507.1	78.3
0°-90°	3201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3201.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1123	1123	1123	1123	1123	
5°	1124	1115	1123	1115	1115	107
15°	1083	1074	1081	1075	1077	306
25°	1003	994	1000	990	991	462
35°	887	881	884	874	878	554
45°	744	743	743	733	736	574
55°	581	583	580	571	576	520
65°	408	404	401	397	398	404
75°	224	221	217	214	216	238
85°	60	60	57	54	56	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1122.6	1122.6	1122.6	1122.6	1122.6
2.5°	1129.7	1119.7	1125.4	1119.7	1114.0
5°	1124.0	1115.4	1122.6	1115.4	1115.4
7.5°	1118.3	1109.7	1115.4	1108.3	1109.7
10°	1109.7	1101.1	1106.9	1101.1	1102.6
12.5°	1098.3	1088.3	1095.4	1089.7	1089.7
15°	1082.6	1074.0	1081.2	1075.4	1076.9
17.5°	1065.4	1056.9	1065.4	1058.3	1058.3
20°	1046.9	1038.3	1046.9	1038.3	1039.7
22.5°	1025.5	1018.3	1024.0	1014.0	1015.5
25°	1002.6	994.0	999.7	989.7	991.2
27.5°	975.5	968.3	974.0	964.0	965.5
30°	948.3	941.2	946.9	935.5	938.3
32.5°	918.3	911.2	915.5	906.9	909.8
35°	886.9	881.2	884.1	874.1	878.3
37.5°	852.6	848.4	852.6	841.2	844.1
40°	816.9	814.1	818.4	806.9	808.4
42.5°	782.7	778.4	782.7	771.2	772.7
45°	744.1	742.7	742.7	732.7	735.5
47.5°	705.5	704.1	704.1	694.1	697.0
50°	665.5	665.5	664.1	654.1	657.0
52.5°	624.1	624.1	622.7	614.1	618.4
55°	581.3	582.7	579.9	571.3	575.6
57.5°	539.9	539.9	537.0	529.9	532.7
60°	497.0	495.6	492.7	485.6	488.4
62.5°	454.2	451.3	447.0	441.3	444.2
65°	408.5	404.2	401.3	397.0	398.5
67.5°	364.2	358.5	354.2	348.5	351.3
70°	315.6	311.3	307.1	302.8	305.6
72.5°	269.9	265.6	261.4	258.5	259.9
75°	224.2	221.4	217.1	214.2	215.7
77.5°	181.4	177.1	175.7	171.4	172.8
80°	137.1	135.7	134.3	130.0	131.4
82.5°	97.1	97.1	94.3	91.4	92.8
85°	60.0	60.0	57.1	54.3	55.7
87.5°	25.7	24.3	24.3	22.9	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)