

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: P395226

Luminaire Tested: **4FSN6-SL1-CP187-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: P395226
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-CP187-L8SCT3-3000K-HI
Description: 4FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3000K LEDS AND CP187 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3861.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

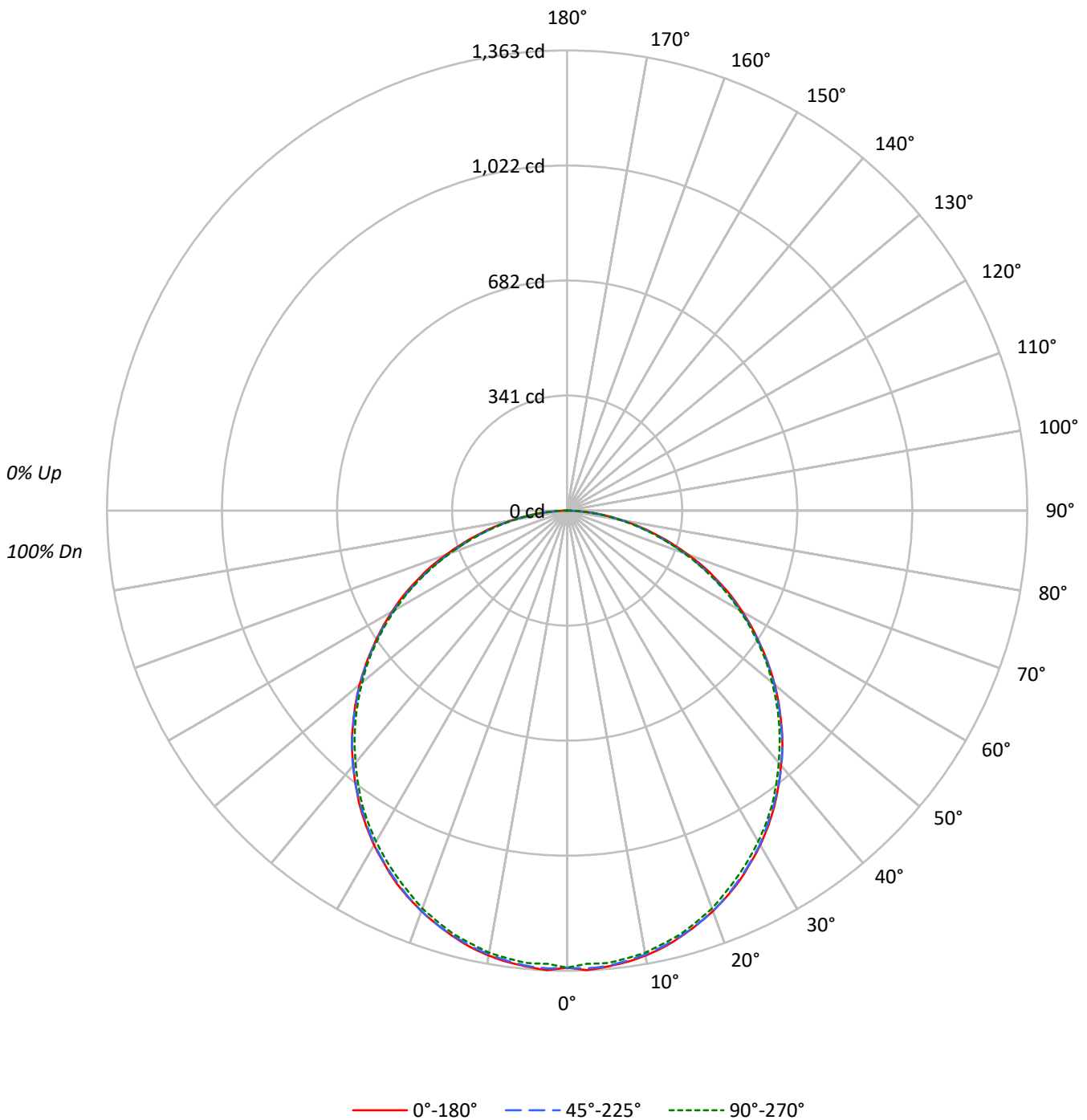
Input Watts (W): 36.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7287	7287	7287
5°	7325	7315	7269
10°	7315	7296	7268
15°	7276	7266	7237
20°	7232	7232	7183
25°	7181	7161	7099
30°	7109	7098	7034
35°	7029	7006	6961
40°	6923	6935	6850
45°	6831	6818	6753
50°	6722	6707	6635
55°	6579	6563	6514
60°	6453	6397	6342
65°	6274	6165	6120
70°	5991	5829	5802
75°	5625	5444	5409
80°	5126	5018	4912
85°	4471	4255	4150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	3.3
10°-20°	366.7	9.5
20°-30°	553.2	14.3
30°-40°	664.4	17.2
40°-50°	688.1	17.8
50°-60°	623.4	16.1
60°-70°	478.5	12.4
70°-80°	278.9	7.2
80°-90°	79.6	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°	1048.1	27.1
0°-40°	1712.5	44.4
0°-60°	3024.1	78.3
0°-90°	3861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3861.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1356	1345	1354	1345	1345	129
15°	1306	1296	1304	1297	1299	369
25°	1209	1199	1206	1194	1196	557
35°	1070	1063	1066	1054	1060	669
45°	898	896	896	884	887	692
55°	701	703	699	689	694	628
65°	493	488	484	479	481	487
75°	270	267	262	258	260	287
85°	72	72	69	66	67	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1362.6	1350.6	1357.5	1350.6	1343.7
5°	1355.8	1345.4	1354.0	1345.4	1345.4
7.5°	1348.9	1338.5	1345.4	1336.8	1338.5
10°	1338.5	1328.2	1335.1	1328.2	1329.9
12.5°	1324.7	1312.7	1321.3	1314.4	1314.4
15°	1305.8	1295.5	1304.1	1297.2	1298.9
17.5°	1285.1	1274.8	1285.1	1276.5	1276.5
20°	1262.7	1252.4	1262.7	1252.4	1254.1
22.5°	1236.9	1228.3	1235.2	1223.1	1224.8
25°	1209.3	1199.0	1205.9	1193.8	1195.5
27.5°	1176.6	1168.0	1174.9	1162.8	1164.5
30°	1143.9	1135.3	1142.1	1128.4	1131.8
32.5°	1107.7	1099.1	1104.2	1093.9	1097.4
35°	1069.8	1062.9	1066.3	1054.3	1059.5
37.5°	1028.4	1023.3	1028.4	1014.7	1018.1
40°	985.4	981.9	987.1	973.3	975.0
42.5°	944.0	938.9	944.0	930.3	932.0
45°	897.5	895.8	895.8	883.7	887.2
47.5°	851.0	849.3	849.3	837.2	840.7
50°	802.8	802.8	801.0	789.0	792.4
52.5°	752.8	752.8	751.1	740.8	745.9
55°	701.1	702.9	699.4	689.1	694.2
57.5°	651.2	651.2	647.7	639.1	642.6
60°	599.5	597.8	594.3	585.7	589.2
62.5°	547.8	544.4	539.2	532.3	535.8
65°	492.7	487.5	484.1	478.9	480.6
67.5°	439.3	432.4	427.2	420.3	423.8
70°	380.7	375.5	370.4	365.2	368.7
72.5°	325.6	320.4	315.3	311.8	313.5
75°	270.5	267.0	261.8	258.4	260.1
77.5°	218.8	213.6	211.9	206.7	208.4
80°	165.4	163.7	161.9	156.8	158.5
82.5°	117.1	117.1	113.7	110.3	112.0
85°	72.4	72.4	68.9	65.5	67.2
87.5°	31.0	29.3	29.3	27.6	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)