

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: P395202

Luminaire Tested: **4FSN6-SL1-CA08-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: P395202
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-L8SCT3-3500K-HI
Description: 4FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3500K LEDS AND CA08 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4074.0 lumens
Efficiency: N/A
Efficacy: 112.9 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

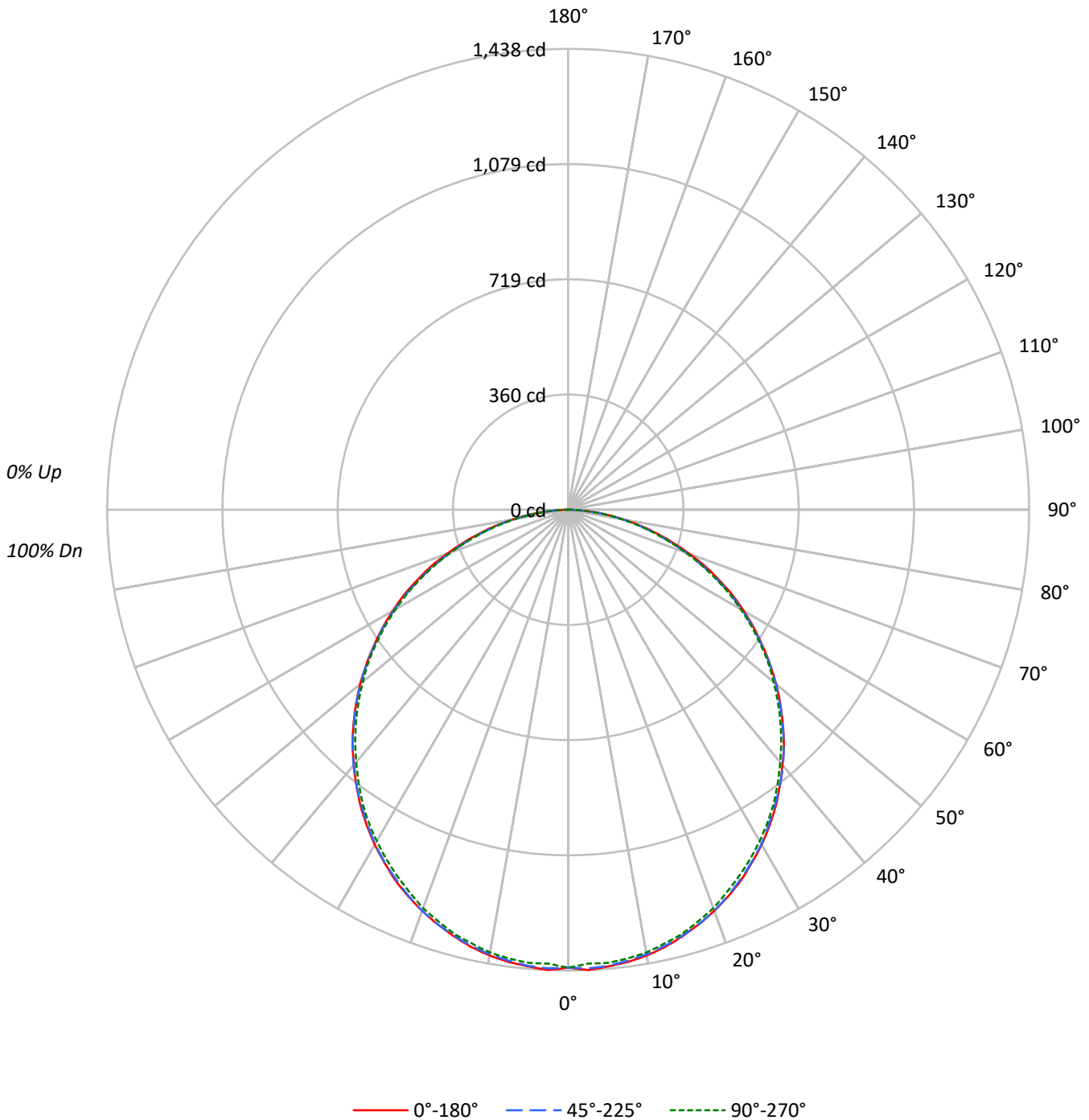
Input Watts (W): 36.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7689	7689	7689
5°	7728	7719	7669
10°	7719	7699	7669
15°	7677	7667	7637
20°	7631	7631	7579
25°	7577	7556	7491
30°	7501	7489	7421
35°	7416	7393	7345
40°	7305	7318	7228
45°	7208	7194	7125
50°	7093	7077	7001
55°	6942	6925	6873
60°	6809	6750	6692
65°	6621	6505	6458
70°	6321	6150	6121
75°	5935	5745	5708
80°	5408	5297	5182
85°	4712	4489	4378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	3.3
10°-20°	386.9	9.5
20°-30°	583.7	14.3
30°-40°	701.1	17.2
40°-50°	726.1	17.8
50°-60°	657.8	16.1
60°-70°	504.9	12.4
70°-80°	294.3	7.2
80°-90°	83.9	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°	1105.9	27.1
0°-40°	1807.0	44.4
0°-60°	3190.9	78.3
0°-90°	4074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1429	1429	1429	1429	1429	
5°	1430	1420	1429	1420	1420	136
15°	1378	1367	1376	1369	1371	389
25°	1276	1265	1272	1260	1262	588
35°	1129	1122	1125	1112	1118	706
45°	947	945	945	932	936	731
55°	740	742	738	727	732	662
65°	520	514	511	505	507	514
75°	285	282	276	273	274	303
85°	76	76	73	69	71	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1428.7	1428.7	1428.7	1428.7	1428.7
2.5°	1437.8	1425.1	1432.4	1425.1	1417.8
5°	1430.5	1419.6	1428.7	1419.6	1419.6
7.5°	1423.3	1412.4	1419.6	1410.6	1412.4
10°	1412.4	1401.5	1408.7	1401.5	1403.3
12.5°	1397.8	1385.1	1394.2	1386.9	1386.9
15°	1377.8	1366.9	1376.0	1368.7	1370.6
17.5°	1356.0	1345.1	1356.0	1346.9	1346.9
20°	1332.4	1321.5	1332.4	1321.5	1323.3
22.5°	1305.1	1296.0	1303.3	1290.6	1292.4
25°	1276.0	1265.1	1272.4	1259.7	1261.5
27.5°	1241.5	1232.4	1239.7	1227.0	1228.8
30°	1207.0	1197.9	1205.1	1190.6	1194.2
32.5°	1168.8	1159.7	1165.2	1154.3	1157.9
35°	1128.8	1121.5	1125.2	1112.4	1117.9
37.5°	1085.2	1079.7	1085.2	1070.6	1074.3
40°	1039.7	1036.1	1041.6	1027.0	1028.8
42.5°	996.1	990.7	996.1	981.6	983.4
45°	947.0	945.2	945.2	932.5	936.1
47.5°	898.0	896.1	896.1	883.4	887.0
50°	847.1	847.1	845.2	832.5	836.2
52.5°	794.3	794.3	792.5	781.6	787.1
55°	739.8	741.6	738.0	727.1	732.5
57.5°	687.1	687.1	683.5	674.4	678.0
60°	632.6	630.7	627.1	618.0	621.7
62.5°	578.0	574.4	568.9	561.7	565.3
65°	519.9	514.4	510.8	505.3	507.1
67.5°	463.5	456.2	450.8	443.5	447.2
70°	401.7	396.3	390.8	385.4	389.0
72.5°	343.5	338.1	332.6	329.0	330.8
75°	285.4	281.7	276.3	272.7	274.5
77.5°	230.9	225.4	223.6	218.1	219.9
80°	174.5	172.7	170.9	165.4	167.2
82.5°	123.6	123.6	120.0	116.3	118.2
85°	76.3	76.3	72.7	69.1	70.9
87.5°	32.7	30.9	30.9	29.1	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)