

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: P395205

Luminaire Tested: **4FSN6-SL1-CA08-L8SCT3-4000K-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: P395205
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-L8SCT3-4000K-HI
Description: 4FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 4000K LEDS AND CA08 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4121.0 lumens
Efficiency: N/A
Efficacy: 114.8 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

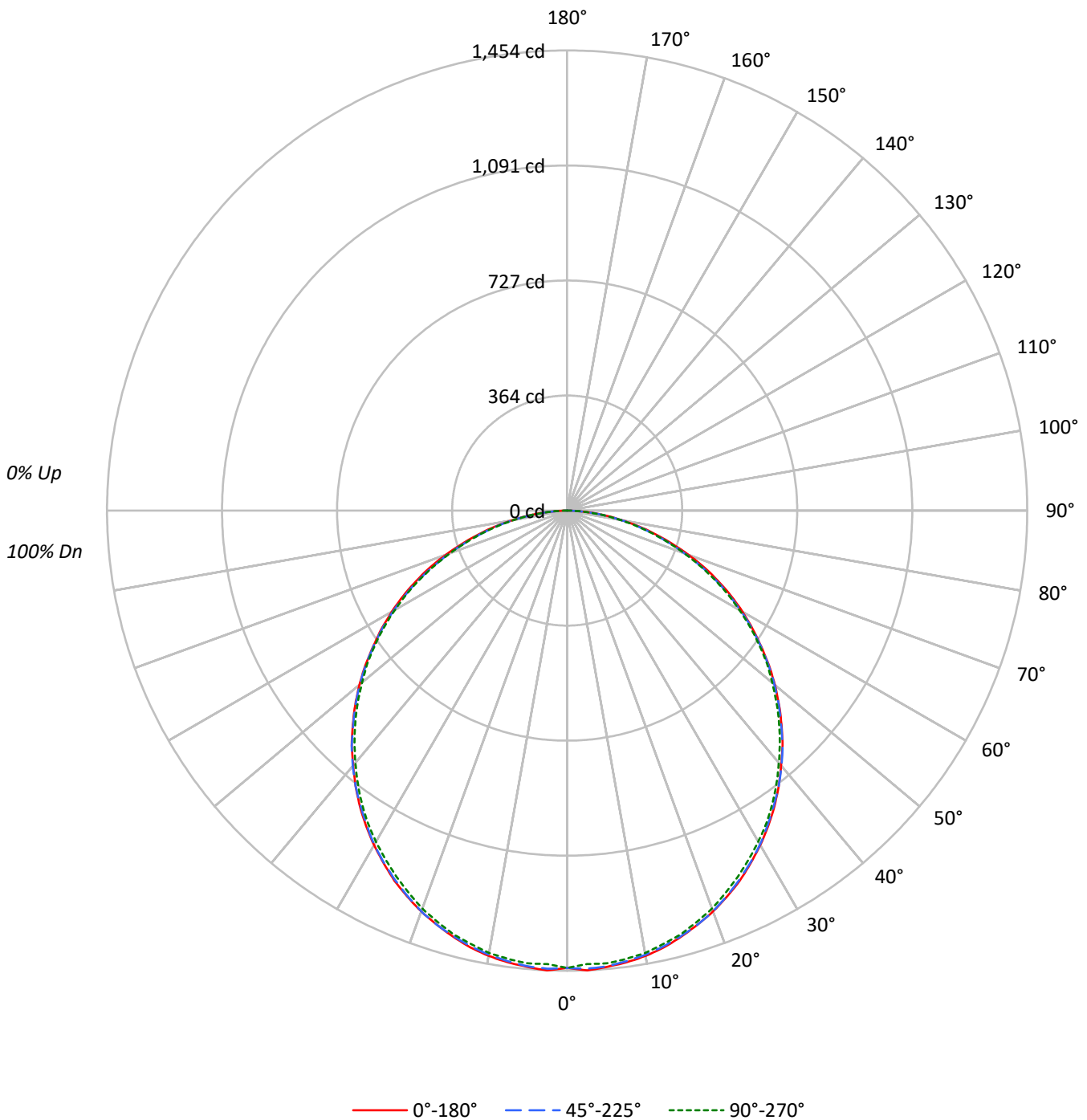
Input Watts (W): 35.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7778	7778	7778
5°	7818	7808	7758
10°	7808	7788	7758
15°	7765	7755	7725
20°	7719	7719	7667
25°	7665	7643	7578
30°	7587	7576	7507
35°	7502	7478	7430
40°	7389	7402	7312
45°	7292	7277	7207
50°	7174	7159	7082
55°	7021	7005	6953
60°	6888	6828	6768
65°	6697	6580	6533
70°	6395	6220	6192
75°	6003	5812	5772
80°	5470	5356	5244
85°	4767	4539	4428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	3.3
10°-20°	391.4	9.5
20°-30°	590.5	14.3
30°-40°	709.2	17.2
40°-50°	734.5	17.8
50°-60°	665.4	16.1
60°-70°	510.7	12.4
70°-80°	297.7	7.2
80°-90°	84.9	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°	1118.7	27.1
0°-40°	1827.8	44.4
0°-60°	3227.7	78.3
0°-90°	4121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1445	1445	1445	1445	1445	
5°	1447	1436	1445	1436	1436	138
15°	1394	1383	1392	1384	1386	393
25°	1291	1280	1287	1274	1276	594
35°	1142	1134	1138	1125	1131	714
45°	958	956	956	943	947	739
55°	748	750	746	736	741	670
65°	526	520	517	511	513	520
75°	289	285	280	276	278	306
85°	77	77	74	70	72	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1445.2	1445.2	1445.2	1445.2	1445.2
2.5°	1454.4	1441.5	1448.9	1441.5	1434.2
5°	1447.1	1436.0	1445.2	1436.0	1436.0
7.5°	1439.7	1428.7	1436.0	1426.8	1428.7
10°	1428.7	1417.6	1425.0	1417.6	1419.5
12.5°	1414.0	1401.1	1410.3	1402.9	1402.9
15°	1393.7	1382.7	1391.9	1384.5	1386.4
17.5°	1371.7	1360.6	1371.7	1362.5	1362.5
20°	1347.8	1336.7	1347.8	1336.7	1338.6
22.5°	1320.2	1311.0	1318.3	1305.5	1307.3
25°	1290.8	1279.7	1287.1	1274.2	1276.1
27.5°	1255.8	1246.6	1254.0	1241.1	1243.0
30°	1220.9	1211.7	1219.1	1204.3	1208.0
32.5°	1182.3	1173.1	1178.6	1167.6	1171.2
35°	1141.8	1134.5	1138.2	1125.3	1130.8
37.5°	1097.7	1092.2	1097.7	1083.0	1086.7
40°	1051.7	1048.1	1053.6	1038.9	1040.7
42.5°	1007.6	1002.1	1007.6	992.9	994.7
45°	958.0	956.1	956.1	943.2	946.9
47.5°	908.3	906.5	906.5	893.6	897.3
50°	856.8	856.8	855.0	842.1	845.8
52.5°	803.5	803.5	801.7	790.6	796.2
55°	748.3	750.2	746.5	735.5	741.0
57.5°	695.0	695.0	691.3	682.2	685.8
60°	639.9	638.0	634.3	625.2	628.8
62.5°	584.7	581.0	575.5	568.2	571.8
65°	525.9	520.3	516.7	511.2	513.0
67.5°	468.9	461.5	456.0	448.6	452.3
70°	406.4	400.8	395.3	389.8	393.5
72.5°	347.5	342.0	336.5	332.8	334.6
75°	288.7	285.0	279.5	275.8	277.6
77.5°	233.5	228.0	226.2	220.6	222.5
80°	176.5	174.7	172.8	167.3	169.2
82.5°	125.0	125.0	121.4	117.7	119.5
85°	77.2	77.2	73.5	69.9	71.7
87.5°	33.1	31.3	31.3	29.4	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)