

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: P395243

Luminaire Tested: **4FSN6-SL1-CP250-L8SCT3-4000K-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: P395243
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-CP250-L8SCT3-4000K-MID
Description: 4FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 4000K LEDS AND CP250 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3090.0 lumens
Efficiency: N/A
Efficacy: 112.4 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

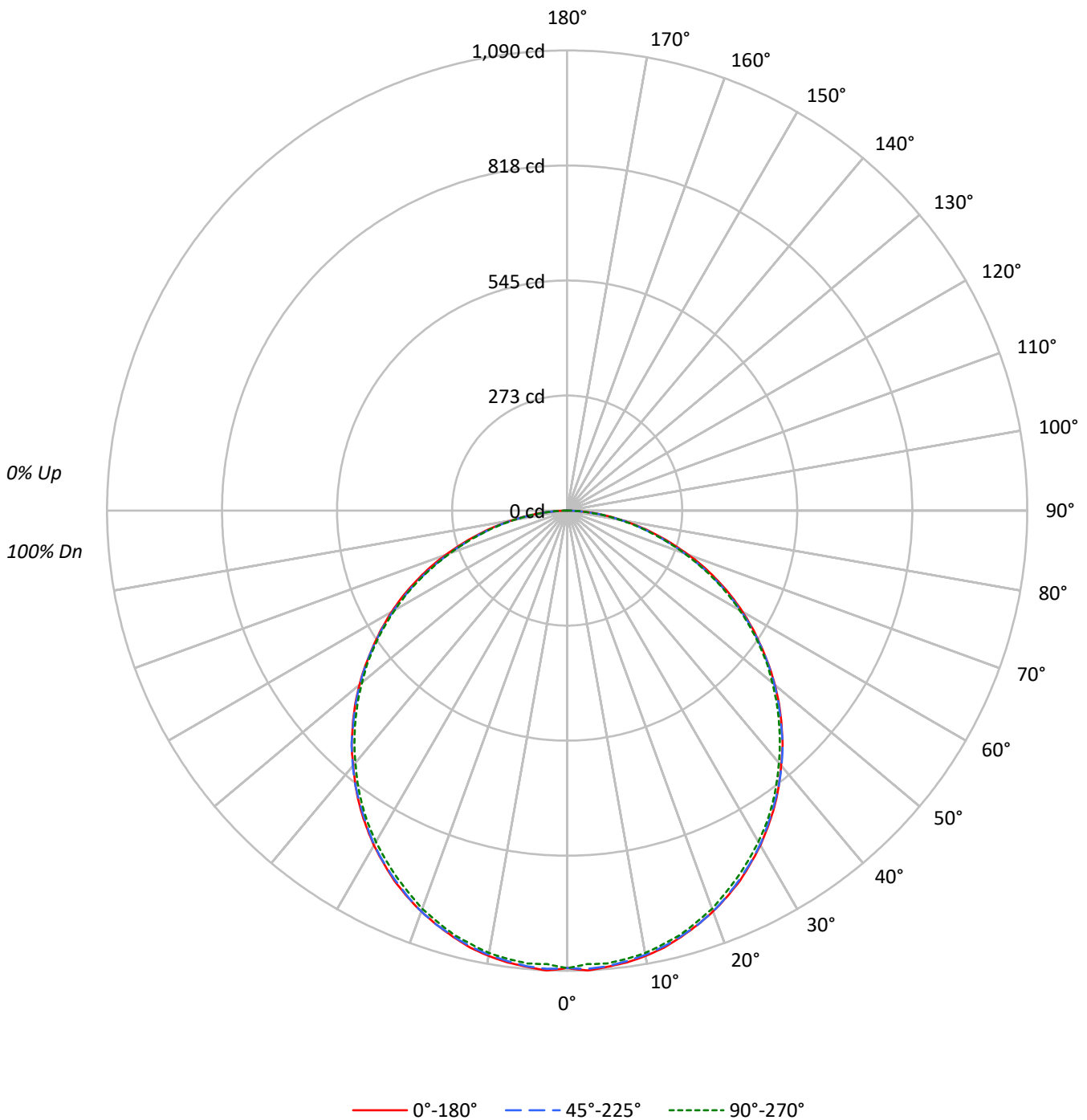
Input Watts (W): 27.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5832	5832	5832
5°	5862	5854	5817
10°	5854	5839	5816
15°	5823	5815	5792
20°	5788	5788	5749
25°	5747	5731	5682
30°	5689	5681	5629
35°	5625	5607	5571
40°	5540	5550	5482
45°	5467	5456	5404
50°	5380	5368	5310
55°	5265	5252	5213
60°	5165	5119	5075
65°	5021	4933	4899
70°	4795	4664	4642
75°	4502	4358	4329
80°	4104	4017	3930
85°	3575	3402	3322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	3.3
10°-20°	293.5	9.5
20°-30°	442.7	14.3
30°-40°	531.7	17.2
40°-50°	550.7	17.8
50°-60°	498.9	16.1
60°-70°	382.9	12.4
70°-80°	223.2	7.2
80°-90°	63.7	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°	838.8	27.1
0°-40°	1370.5	44.4
0°-60°	2420.2	78.3
0°-90°	3090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1084	1084	1084	1084	1084	
5°	1085	1077	1084	1077	1077	103
15°	1045	1037	1044	1038	1040	295
25°	968	960	965	955	957	446
35°	856	851	853	844	848	535
45°	718	717	717	707	710	554
55°	561	562	560	552	556	502
65°	394	390	387	383	385	390
75°	216	214	210	207	208	230
85°	58	58	55	52	54	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1083.6	1083.6	1083.6	1083.6	1083.6
2.5°	1090.5	1080.9	1086.4	1080.9	1075.4
5°	1085.0	1076.8	1083.6	1076.8	1076.8
7.5°	1079.5	1071.2	1076.8	1069.9	1071.2
10°	1071.2	1063.0	1068.5	1063.0	1064.3
12.5°	1060.2	1050.6	1057.5	1051.9	1051.9
15°	1045.0	1036.8	1043.7	1038.1	1039.5
17.5°	1028.5	1020.2	1028.5	1021.6	1021.6
20°	1010.6	1002.3	1010.6	1002.3	1003.7
22.5°	989.9	983.0	988.5	978.9	980.2
25°	967.8	959.6	965.1	955.4	956.8
27.5°	941.6	934.7	940.3	930.6	932.0
30°	915.4	908.6	914.1	903.0	905.8
32.5°	886.5	879.6	883.7	875.5	878.2
35°	856.2	850.6	853.4	843.8	847.9
37.5°	823.1	818.9	823.1	812.0	814.8
40°	788.6	785.9	790.0	779.0	780.3
42.5°	755.5	751.4	755.5	744.5	745.9
45°	718.3	716.9	716.9	707.3	710.0
47.5°	681.1	679.7	679.7	670.0	672.8
50°	642.5	642.5	641.1	631.4	634.2
52.5°	602.5	602.5	601.1	592.8	597.0
55°	561.1	562.5	559.7	551.5	555.6
57.5°	521.1	521.1	518.4	511.5	514.2
60°	479.8	478.4	475.6	468.8	471.5
62.5°	438.4	435.7	431.5	426.0	428.8
65°	394.3	390.2	387.4	383.3	384.7
67.5°	351.6	346.0	341.9	336.4	339.2
70°	304.7	300.6	296.4	292.3	295.0
72.5°	260.6	256.4	252.3	249.5	250.9
75°	216.5	213.7	209.6	206.8	208.2
77.5°	175.1	171.0	169.6	165.4	166.8
80°	132.4	131.0	129.6	125.5	126.8
82.5°	93.8	93.8	91.0	88.2	89.6
85°	57.9	57.9	55.1	52.4	53.8
87.5°	24.8	23.4	23.4	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)