

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: P395235

Luminaire Tested: **4FSN6-SL1-CP250-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: P395235
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-L8SCT3-3000K-HI
Description: 4FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3000K LEDS AND CP250 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3795.0 lumens
Efficiency: N/A
Efficacy: 105.1 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

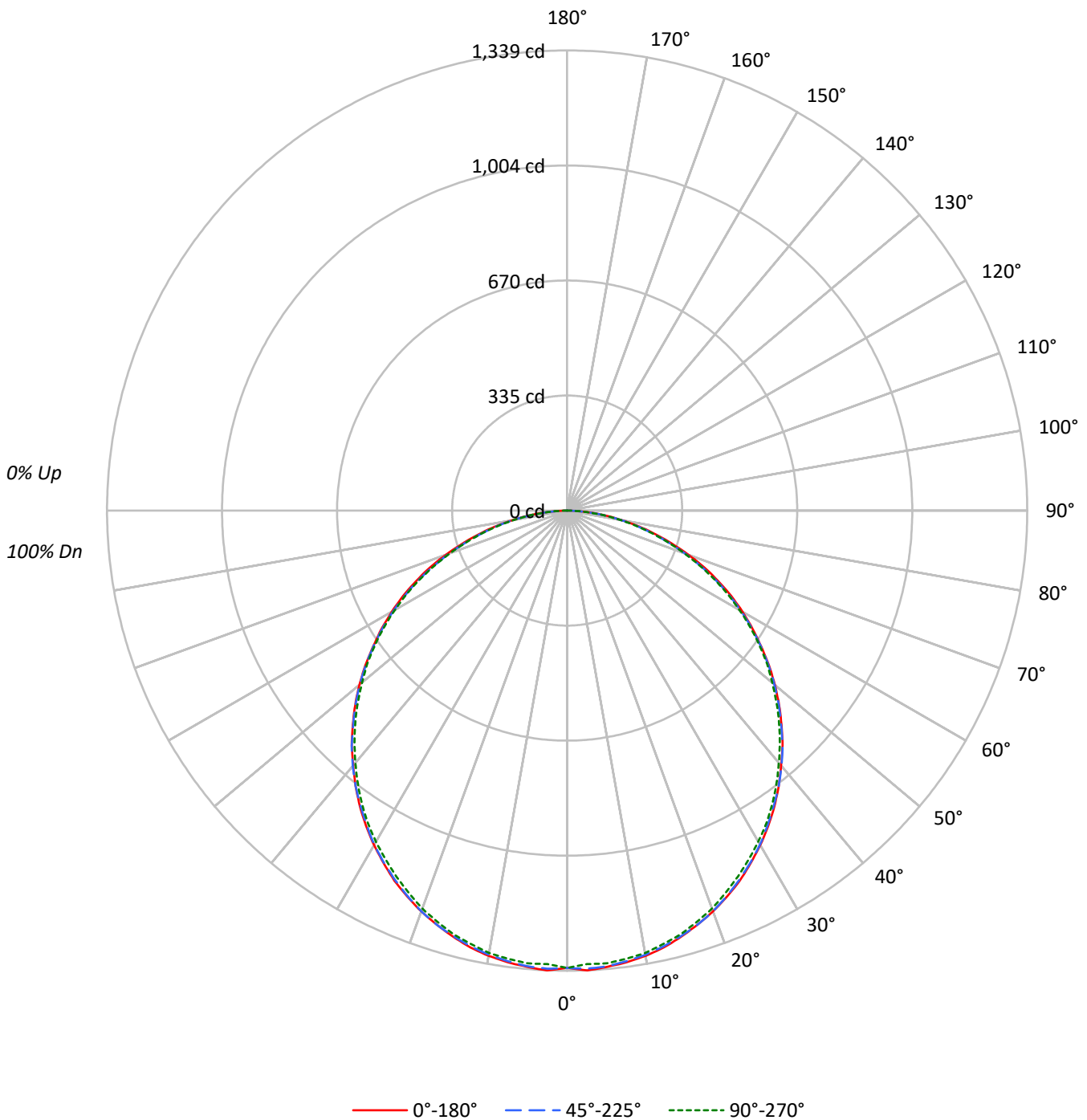
Input Watts (W): 36.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7163	7163	7163
5°	7199	7190	7144
10°	7190	7172	7144
15°	7151	7142	7114
20°	7108	7108	7060
25°	7059	7039	6978
30°	6987	6976	6914
35°	6909	6886	6842
40°	6804	6816	6733
45°	6715	6702	6637
50°	6606	6593	6522
55°	6466	6451	6403
60°	6342	6288	6233
65°	6167	6059	6016
70°	5888	5728	5703
75°	5527	5352	5317
80°	5040	4934	4829
85°	4390	4181	4076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	3.3
10°-20°	360.4	9.5
20°-30°	543.8	14.3
30°-40°	653.1	17.2
40°-50°	676.4	17.8
50°-60°	612.8	16.1
60°-70°	470.3	12.4
70°-80°	274.2	7.2
80°-90°	78.2	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°	1030.2	27.1
0°-40°	1683.2	44.4
0°-60°	2972.4	78.3
0°-90°	3795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1331	1331	1331	1331	1331	
5°	1333	1322	1331	1322	1322	127
15°	1284	1273	1282	1275	1277	362
25°	1189	1178	1185	1173	1175	547
35°	1052	1045	1048	1036	1041	657
45°	882	880	880	869	872	681
55°	689	691	688	677	682	617
65°	484	479	476	471	472	479
75°	266	262	257	254	256	282
85°	71	71	68	64	66	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1330.9	1330.9	1330.9	1330.9	1330.9
2.5°	1339.4	1327.5	1334.3	1327.5	1320.7
5°	1332.6	1322.4	1330.9	1322.4	1322.4
7.5°	1325.8	1315.6	1322.4	1314.0	1315.6
10°	1315.6	1305.5	1312.3	1305.5	1307.2
12.5°	1302.1	1290.2	1298.7	1291.9	1291.9
15°	1283.5	1273.3	1281.8	1275.0	1276.7
17.5°	1263.2	1253.0	1263.2	1254.7	1254.7
20°	1241.1	1231.0	1241.1	1231.0	1232.7
22.5°	1215.7	1207.3	1214.1	1202.2	1203.9
25°	1188.7	1178.5	1185.3	1173.4	1175.1
27.5°	1156.5	1148.0	1154.8	1142.9	1144.6
30°	1124.3	1115.8	1122.6	1109.1	1112.5
32.5°	1088.8	1080.3	1085.4	1075.2	1078.6
35°	1051.5	1044.7	1048.1	1036.3	1041.3
37.5°	1010.9	1005.8	1010.9	997.3	1000.7
40°	968.5	965.1	970.2	956.7	958.4
42.5°	927.9	922.8	927.9	914.3	916.0
45°	882.2	880.5	880.5	868.6	872.0
47.5°	836.5	834.8	834.8	822.9	826.3
50°	789.0	789.0	787.4	775.5	778.9
52.5°	739.9	739.9	738.3	728.1	733.2
55°	689.1	690.8	687.5	677.3	682.4
57.5°	640.0	640.0	636.7	628.2	631.6
60°	589.2	587.6	584.2	575.7	579.1
62.5°	538.4	535.1	530.0	523.2	526.6
65°	484.3	479.2	475.8	470.7	472.4
67.5°	431.8	425.0	419.9	413.2	416.5
70°	374.2	369.1	364.0	359.0	362.4
72.5°	320.0	314.9	309.9	306.5	308.2
75°	265.8	262.5	257.4	254.0	255.7
77.5°	215.0	210.0	208.3	203.2	204.9
80°	162.6	160.9	159.2	154.1	155.8
82.5°	115.1	115.1	111.8	108.4	110.1
85°	71.1	71.1	67.7	64.3	66.0
87.5°	30.5	28.8	28.8	27.1	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)