

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: P395241

Luminaire Tested: **4FSN6-SL1-CP250-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: P395241
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-HI
Description: 4FT FSN LINEAR LED FIXTURE WITH HIGH 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: 3883.0 lumens
Efficiency: N/A
Efficacy: 108.2 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

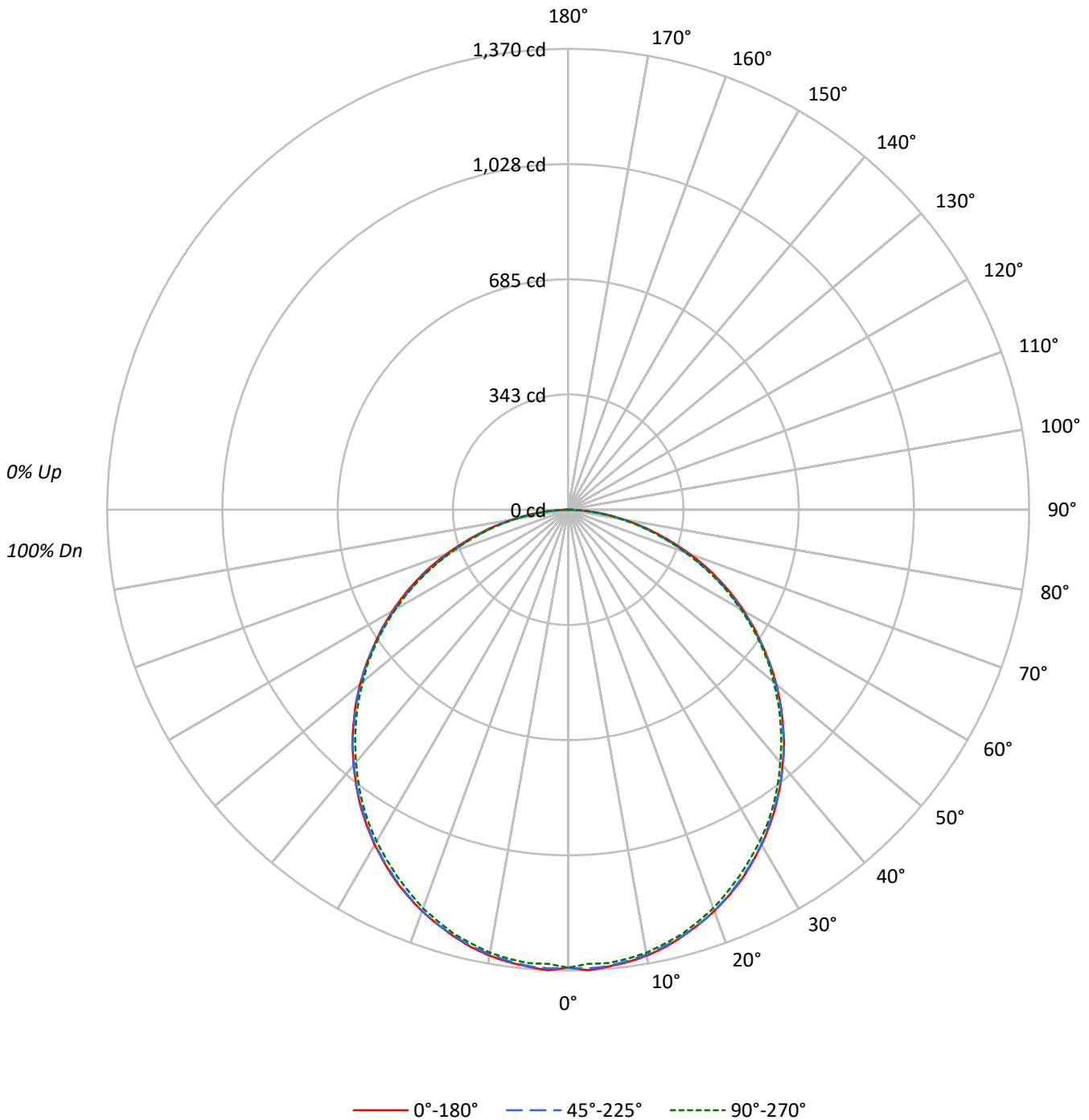
Input Watts (W): 35.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7329	7329	7329
5°	7366	7357	7310
10°	7357	7338	7309
15°	7317	7307	7278
20°	7273	7273	7224
25°	7222	7202	7140
30°	7149	7138	7074
35°	7069	7046	7001
40°	6962	6974	6889
45°	6870	6857	6791
50°	6759	6745	6673
55°	6616	6600	6551
60°	6490	6434	6378
65°	6310	6199	6156
70°	6025	5862	5835
75°	5656	5475	5440
80°	5154	5049	4940
85°	4495	4279	4174



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	3.3
10°-20°	368.8	9.5
20°-30°	556.4	14.3
30°-40°	668.2	17.2
40°-50°	692.1	17.8
50°-60°	627.0	16.1
60°-70°	481.2	12.4
70°-80°	280.5	7.2
80°-90°	80.0	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°	1054.1	27.1
0°-40°	1722.3	44.4
0°-60°	3041.3	78.3
0°-90°	3883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1364	1353	1362	1353	1353	130
15°	1313	1303	1312	1305	1306	371
25°	1216	1206	1213	1201	1202	560
35°	1076	1069	1072	1060	1066	673
45°	903	901	901	889	892	696
55°	705	707	703	693	698	631
65°	496	490	487	482	483	490
75°	272	268	263	260	262	289
85°	73	73	69	66	68	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.7	1361.7	1361.7	1361.7	1361.7
2.5°	1370.4	1358.3	1365.2	1358.3	1351.4
5°	1363.5	1353.1	1361.7	1353.1	1353.1
7.5°	1356.5	1346.2	1353.1	1344.4	1346.2
10°	1346.2	1335.8	1342.7	1335.8	1337.5
12.5°	1332.3	1320.2	1328.8	1321.9	1321.9
15°	1313.2	1302.8	1311.5	1304.6	1306.3
17.5°	1292.4	1282.1	1292.4	1283.8	1283.8
20°	1269.9	1259.5	1269.9	1259.5	1261.3
22.5°	1243.9	1235.3	1242.2	1230.1	1231.8
25°	1216.2	1205.8	1212.8	1200.6	1202.4
27.5°	1183.3	1174.6	1181.6	1169.4	1171.2
30°	1150.4	1141.7	1148.6	1134.8	1138.3
32.5°	1114.0	1105.3	1110.5	1100.1	1103.6
35°	1075.9	1069.0	1072.4	1060.3	1065.5
37.5°	1034.3	1029.1	1034.3	1020.4	1023.9
40°	991.0	987.5	992.7	978.9	980.6
42.5°	949.4	944.2	949.4	935.6	937.3
45°	902.6	900.9	900.9	888.8	892.2
47.5°	855.9	854.1	854.1	842.0	845.5
50°	807.3	807.3	805.6	793.5	797.0
52.5°	757.1	757.1	755.4	745.0	750.2
55°	705.1	706.9	703.4	693.0	698.2
57.5°	654.9	654.9	651.4	642.8	646.2
60°	602.9	601.2	597.7	589.1	592.5
62.5°	550.9	547.5	542.3	535.3	538.8
65°	495.5	490.3	486.8	481.6	483.4
67.5°	441.8	434.9	429.7	422.7	426.2
70°	382.9	377.7	372.5	367.3	370.8
72.5°	327.4	322.2	317.0	313.6	315.3
75°	272.0	268.5	263.3	259.9	261.6
77.5°	220.0	214.8	213.1	207.9	209.6
80°	166.3	164.6	162.9	157.7	159.4
82.5°	117.8	117.8	114.3	110.9	112.6
85°	72.8	72.8	69.3	65.8	67.6
87.5°	31.2	29.5	29.5	27.7	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)