

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: P395332

Luminaire Tested: **8FSN6-SL1-CP250-L8SCT3-4000K-LO**

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: P395332
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: 8FSN6-SL1-CP250-L8SCT3-4000K-LO
Description: 8FT FSN LINEAR LED FIXTURE WITH LOW 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: 4528.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

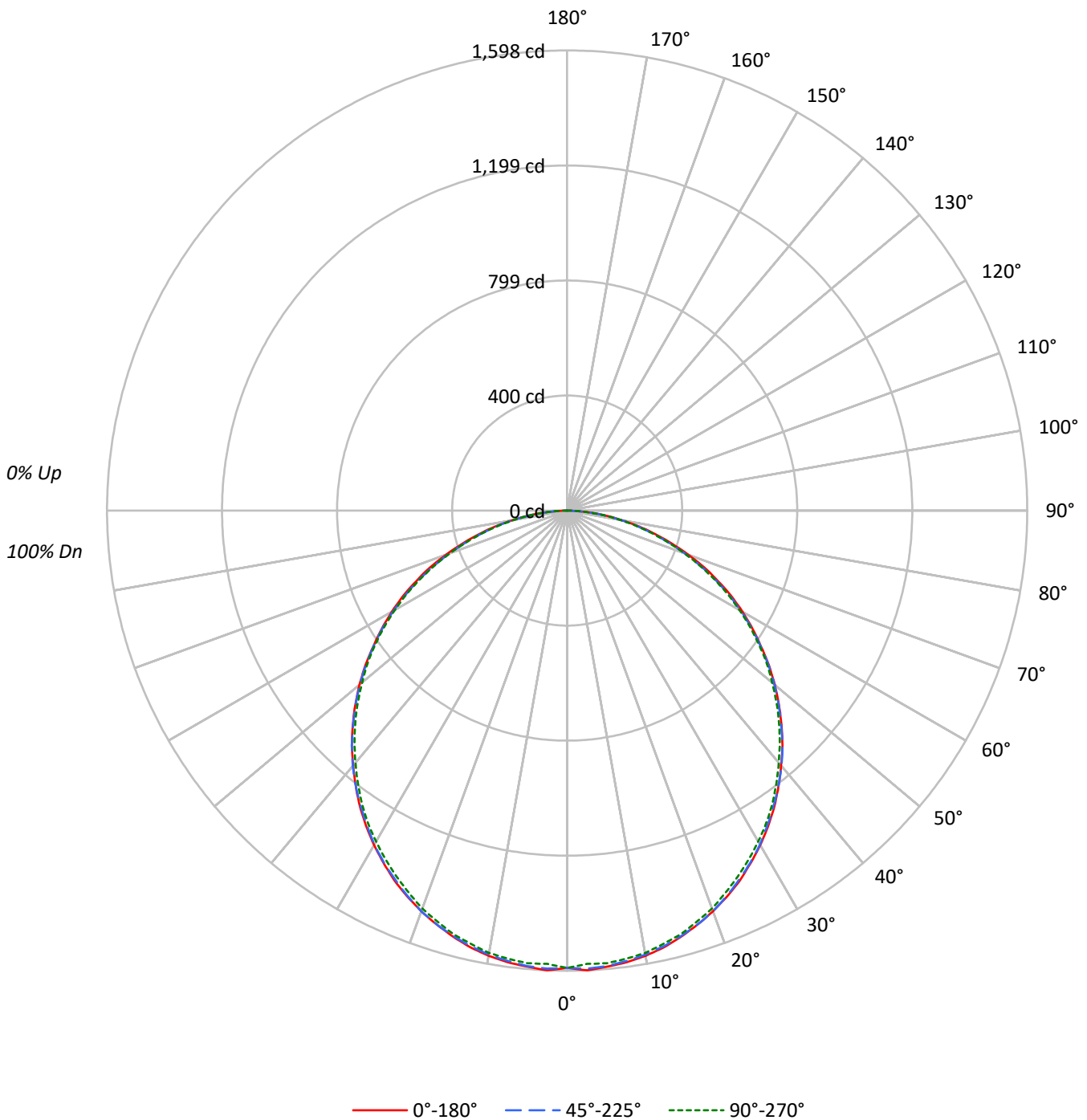
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4273	4273	4273
5°	4295	4289	4262
10°	4289	4278	4262
15°	4266	4261	4244
20°	4241	4241	4212
25°	4211	4199	4163
30°	4168	4162	4124
35°	4121	4108	4082
40°	4059	4066	4017
45°	4006	3998	3959
50°	3942	3933	3890
55°	3858	3848	3820
60°	3784	3751	3718
65°	3679	3615	3589
70°	3513	3418	3401
75°	3298	3193	3172
80°	3005	2943	2881
85°	2621	2495	2433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	3.3
10°-20°	430.1	9.5
20°-30°	648.8	14.3
30°-40°	779.2	17.2
40°-50°	807.0	17.8
50°-60°	731.1	16.1
60°-70°	561.1	12.4
70°-80°	327.1	7.2
80°-90°	93.3	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°	1229.2	27.1
0°-40°	2008.4	44.4
0°-60°	3546.5	78.3
0°-90°	4528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4528.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1590	1578	1588	1578	1578	151
15°	1531	1519	1529	1521	1523	432
25°	1418	1406	1414	1400	1402	653
35°	1255	1246	1251	1236	1242	784
45°	1053	1050	1050	1036	1040	812
55°	822	824	820	808	814	736
65°	578	572	568	562	564	572
75°	317	313	307	303	305	336
85°	85	85	81	77	79	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1587.9	1587.9	1587.9	1587.9	1587.9
2.5°	1598.0	1583.9	1592.0	1583.9	1575.8
5°	1590.0	1577.8	1587.9	1577.8	1577.8
7.5°	1581.9	1569.8	1577.8	1567.7	1569.8
10°	1569.8	1557.6	1565.7	1557.6	1559.7
12.5°	1553.6	1539.5	1549.6	1541.5	1541.5
15°	1531.4	1519.3	1529.4	1521.3	1523.3
17.5°	1507.1	1495.0	1507.1	1497.0	1497.0
20°	1480.9	1468.7	1480.9	1468.7	1470.8
22.5°	1450.6	1440.5	1448.5	1434.4	1436.4
25°	1418.2	1406.1	1414.2	1400.1	1402.1
27.5°	1379.9	1369.8	1377.8	1363.7	1365.7
30°	1341.5	1331.4	1339.4	1323.3	1327.3
32.5°	1299.0	1288.9	1295.0	1282.9	1286.9
35°	1254.6	1246.5	1250.6	1236.4	1242.5
37.5°	1206.1	1200.0	1206.1	1189.9	1194.0
40°	1155.6	1151.6	1157.6	1141.5	1143.5
42.5°	1107.1	1101.1	1107.1	1091.0	1093.0
45°	1052.6	1050.5	1050.5	1036.4	1040.4
47.5°	998.0	996.0	996.0	981.9	985.9
50°	941.5	941.5	939.4	925.3	929.3
52.5°	882.9	882.9	880.8	868.7	874.8
55°	822.3	824.3	820.2	808.1	814.2
57.5°	763.7	763.7	759.6	749.5	753.6
60°	703.1	701.0	697.0	686.9	690.9
62.5°	642.5	638.4	632.3	624.3	628.3
65°	577.8	571.7	567.7	561.6	563.7
67.5°	515.2	507.1	501.0	492.9	497.0
70°	446.5	440.4	434.4	428.3	432.3
72.5°	381.8	375.8	369.7	365.7	367.7
75°	317.2	313.1	307.1	303.0	305.1
77.5°	256.6	250.5	248.5	242.4	244.5
80°	193.9	191.9	189.9	183.8	185.9
82.5°	137.4	137.4	133.3	129.3	131.3
85°	84.9	84.9	80.8	76.8	78.8
87.5°	36.4	34.3	34.3	32.3	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)