

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: P395326

Luminaire Tested: **8FSN6-SL1-CP250-L8SCT3-3000K-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: P395326
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-L8SCT3-3000K-LO
Description: 8FT FSN LINEAR LED FIXTURE WITH LOW 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: 4354.0 lumens
Efficiency: N/A
Efficacy: 112.8 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

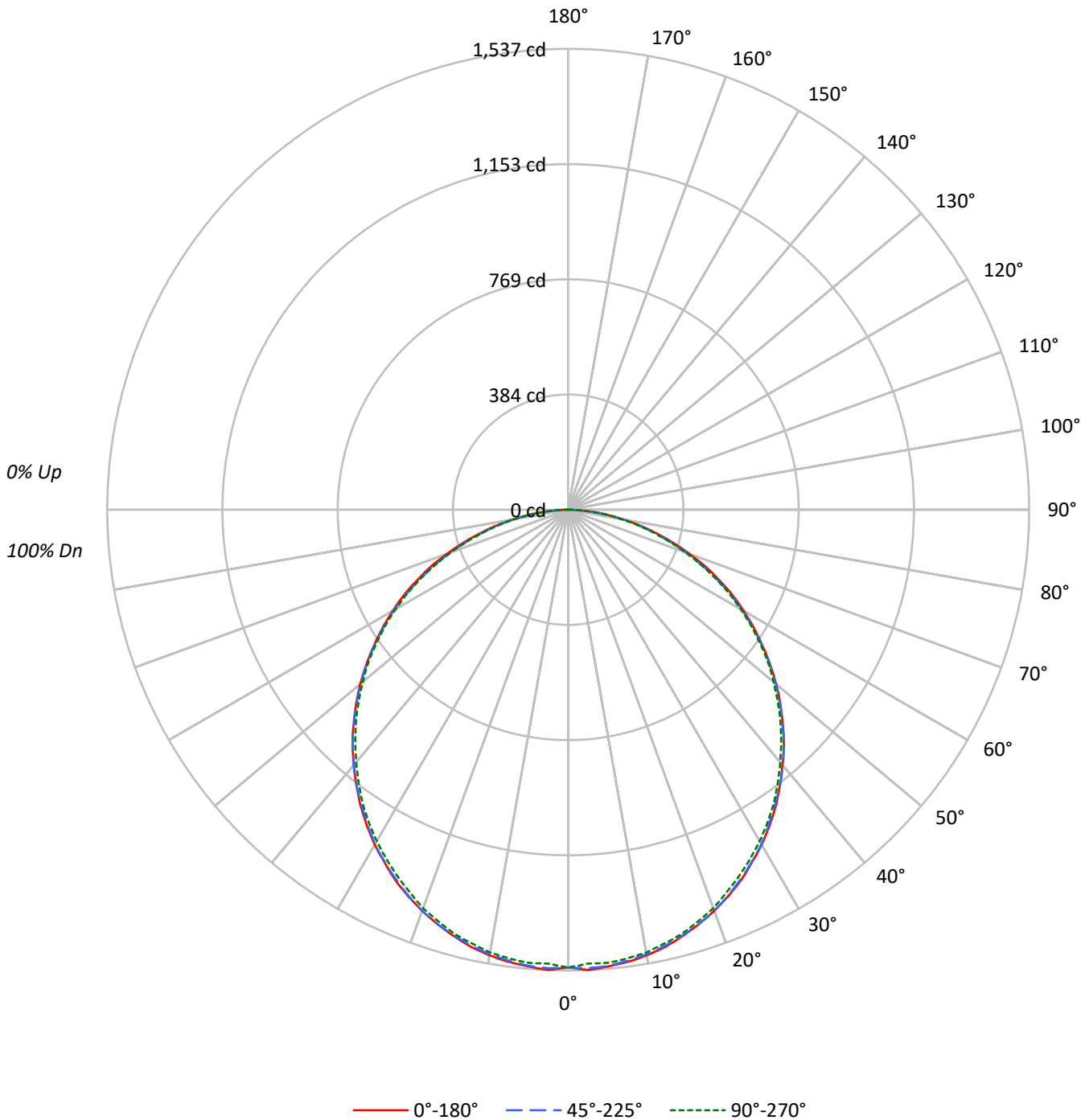
Input Watts (W): 38.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4109	4109	4109
5°	4130	4125	4098
10°	4124	4114	4098
15°	4102	4097	4081
20°	4078	4078	4050
25°	4049	4038	4003
30°	4008	4002	3966
35°	3963	3950	3925
40°	3903	3910	3862
45°	3852	3844	3808
50°	3790	3782	3741
55°	3710	3700	3673
60°	3638	3607	3576
65°	3538	3476	3451
70°	3378	3286	3271
75°	3171	3070	3049
80°	2890	2830	2769
85°	2519	2399	2340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	3.3
10°-20°	413.5	9.5
20°-30°	623.9	14.3
30°-40°	749.2	17.2
40°-50°	776.0	17.8
50°-60°	703.0	16.1
60°-70°	539.6	12.4
70°-80°	314.5	7.2
80°-90°	89.7	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°	1181.9	27.1
0°-40°	1931.2	44.4
0°-60°	3410.2	78.3
0°-90°	4354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1527	1527	1527	1527	1527	
5°	1529	1517	1527	1517	1517	145
15°	1472	1461	1471	1463	1465	416
25°	1364	1352	1360	1346	1348	628
35°	1206	1199	1202	1189	1195	754
45°	1012	1010	1010	997	1000	781
55°	791	793	789	777	783	708
65°	556	550	546	540	542	550
75°	305	301	295	291	293	324
85°	82	82	78	74	76	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1536.6	1523.0	1530.8	1523.0	1515.3
5°	1528.9	1517.2	1526.9	1517.2	1517.2
7.5°	1521.1	1509.4	1517.2	1507.5	1509.4
10°	1509.4	1497.8	1505.6	1497.8	1499.7
12.5°	1493.9	1480.3	1490.0	1482.2	1482.2
15°	1472.5	1460.9	1470.6	1462.8	1464.8
17.5°	1449.2	1437.6	1449.2	1439.5	1439.5
20°	1424.0	1412.3	1424.0	1412.3	1414.2
22.5°	1394.8	1385.1	1392.9	1379.3	1381.2
25°	1363.7	1352.1	1359.9	1346.3	1348.2
27.5°	1326.8	1317.1	1324.9	1311.3	1313.2
30°	1289.9	1280.2	1288.0	1272.4	1276.3
32.5°	1249.1	1239.4	1245.2	1233.6	1237.5
35°	1206.4	1198.6	1202.5	1188.9	1194.7
37.5°	1159.8	1153.9	1159.8	1144.2	1148.1
40°	1111.2	1107.3	1113.1	1097.6	1099.5
42.5°	1064.6	1058.7	1064.6	1049.0	1051.0
45°	1012.1	1010.2	1010.2	996.6	1000.5
47.5°	959.7	957.7	957.7	944.1	948.0
50°	905.3	905.3	903.3	889.7	893.6
52.5°	848.9	848.9	847.0	835.3	841.2
55°	790.7	792.6	788.7	777.1	782.9
57.5°	734.3	734.3	730.4	720.7	724.6
60°	676.0	674.1	670.2	660.5	664.4
62.5°	617.8	613.9	608.0	600.3	604.2
65°	555.6	549.8	545.9	540.1	542.0
67.5°	495.4	487.6	481.8	474.0	477.9
70°	429.3	423.5	417.7	411.8	415.7
72.5°	367.2	361.3	355.5	351.6	353.6
75°	305.0	301.1	295.3	291.4	293.3
77.5°	246.7	240.9	238.9	233.1	235.1
80°	186.5	184.6	182.6	176.8	178.7
82.5°	132.1	132.1	128.2	124.3	126.3
85°	81.6	81.6	77.7	73.8	75.8
87.5°	35.0	33.0	33.0	31.1	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)