

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: P395329

Luminaire Tested: **8FSN6-SL1-CP250-L8SCT3-3500K-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: P395329  
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-L8SCT3-3500K-LO  
Description: 8FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 3500K LEDS AND CP250 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4468.0 lumens  
Efficiency: N/A  
Efficacy: 115.8 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

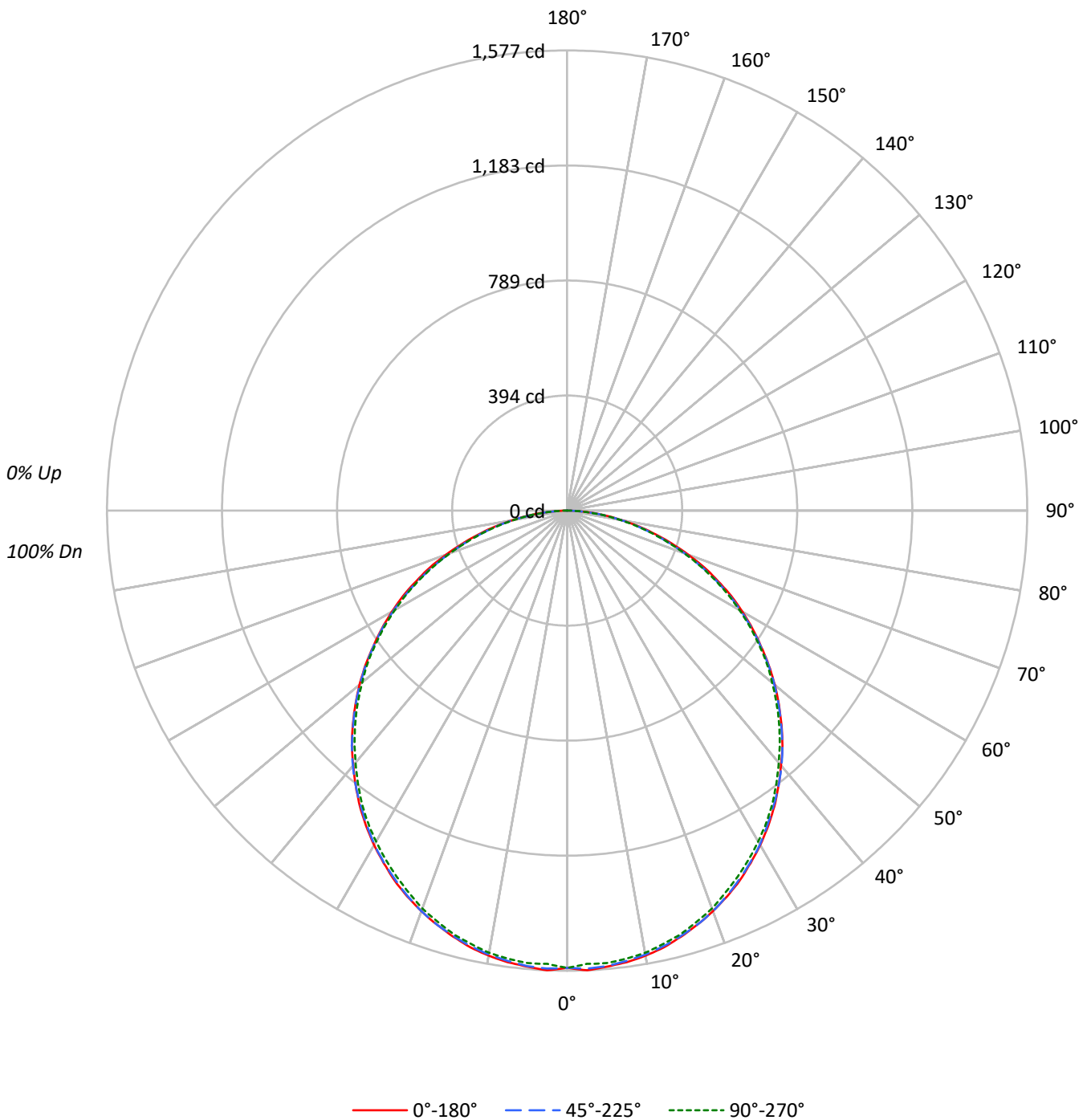
Input Watts (W): 38.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4216	4216	4216
5°	4238	4233	4206
10°	4233	4222	4205
15°	4210	4204	4187
20°	4184	4184	4156
25°	4155	4143	4108
30°	4113	4107	4070
35°	4067	4054	4028
40°	4006	4013	3964
45°	3953	3945	3907
50°	3889	3881	3839
55°	3807	3797	3769
60°	3733	3702	3669
65°	3630	3567	3542
70°	3467	3372	3356
75°	3254	3150	3130
80°	2966	2904	2842
85°	2584	2461	2399



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.3	3.3
10°-20°	424.4	9.5
20°-30°	640.2	14.3
30°-40°	768.9	17.2
40°-50°	796.3	17.8
50°-60°	721.4	16.1
60°-70°	553.7	12.4
70°-80°	322.7	7.2
80°-90°	92.1	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°	1212.9	27.1
0°-40°	1981.7	44.4
0°-60°	3499.5	78.3
0°-90°	4468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4468.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1569	1557	1567	1557	1557	149
15°	1511	1499	1509	1501	1503	426
25°	1399	1388	1396	1382	1384	644
35°	1238	1230	1234	1220	1226	774
45°	1039	1037	1037	1023	1027	801
55°	811	813	809	797	803	726
65°	570	564	560	554	556	564
75°	313	309	303	299	301	332
85°	84	84	80	76	78	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1566.9	1566.9	1566.9	1566.9	1566.9
2.5°	1576.9	1562.9	1570.9	1562.9	1554.9
5°	1568.9	1556.9	1566.9	1556.9	1556.9
7.5°	1560.9	1549.0	1556.9	1547.0	1549.0
10°	1549.0	1537.0	1545.0	1537.0	1539.0
12.5°	1533.0	1519.1	1529.0	1521.1	1521.1
15°	1511.1	1499.1	1509.1	1501.1	1503.1
17.5°	1487.2	1475.2	1487.2	1477.2	1477.2
20°	1461.2	1449.3	1461.2	1449.3	1451.3
22.5°	1431.3	1421.4	1429.4	1415.4	1417.4
25°	1399.4	1387.5	1395.5	1381.5	1383.5
27.5°	1361.6	1351.6	1359.6	1345.6	1347.6
30°	1323.7	1313.7	1321.7	1305.8	1309.7
32.5°	1281.8	1271.9	1277.8	1265.9	1269.9
35°	1238.0	1230.0	1234.0	1220.0	1226.0
37.5°	1190.1	1184.1	1190.1	1174.2	1178.2
40°	1140.3	1136.3	1142.3	1126.3	1128.3
42.5°	1092.4	1086.5	1092.4	1076.5	1078.5
45°	1038.6	1036.6	1036.6	1022.7	1026.7
47.5°	984.8	982.8	982.8	968.8	972.8
50°	929.0	929.0	927.0	913.0	917.0
52.5°	871.2	871.2	869.2	857.2	863.2
55°	811.4	813.4	809.4	797.4	803.4
57.5°	753.5	753.5	749.6	739.6	743.6
60°	693.7	691.7	687.8	677.8	681.8
62.5°	633.9	630.0	624.0	616.0	620.0
65°	570.1	564.2	560.2	554.2	556.2
67.5°	508.3	500.4	494.4	486.4	490.4
70°	440.6	434.6	428.6	422.6	426.6
72.5°	376.8	370.8	364.8	360.8	362.8
75°	313.0	309.0	303.0	299.0	301.0
77.5°	253.2	247.2	245.2	239.2	241.2
80°	191.4	189.4	187.4	181.4	183.4
82.5°	135.6	135.6	131.6	127.6	129.6
85°	83.7	83.7	79.7	75.8	77.7
87.5°	35.9	33.9	33.9	31.9	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)