

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: P395302

Luminaire Tested: **8FSN6-SL1-CA125-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: P395302
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-CA125-L8SCT3-3500K-LO
Description: 8FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 3500K LEDS AND CA125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4715.0 lumens
Efficiency: N/A
Efficacy: 122.2 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

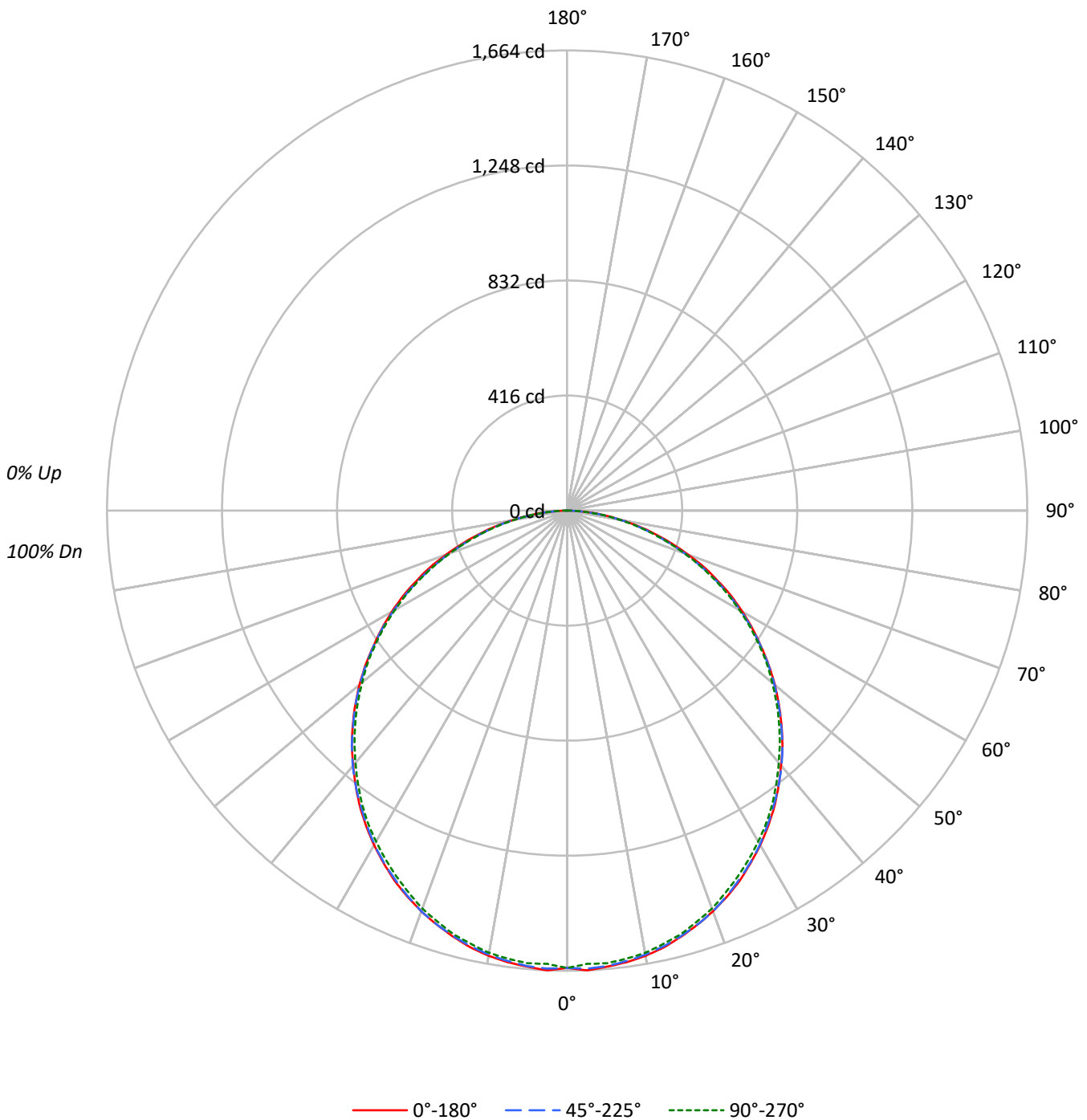
Input Watts (W): 38.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4450	4450	4450
5°	4472	4467	4438
10°	4467	4455	4438
15°	4442	4437	4419
20°	4416	4416	4386
25°	4385	4372	4335
30°	4341	4334	4295
35°	4292	4278	4250
40°	4227	4234	4183
45°	4171	4163	4123
50°	4104	4095	4051
55°	4017	4007	3978
60°	3940	3906	3872
65°	3831	3764	3737
70°	3658	3559	3542
75°	3434	3325	3303
80°	3130	3064	2999
85°	2729	2597	2532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	3.3
10°-20°	447.8	9.5
20°-30°	675.6	14.3
30°-40°	811.4	17.2
40°-50°	840.3	17.8
50°-60°	761.3	16.1
60°-70°	584.3	12.4
70°-80°	340.6	7.2
80°-90°	97.1	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°	1279.9	27.1
0°-40°	2091.3	44.4
0°-60°	3692.9	78.3
0°-90°	4715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4715.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1656	1643	1654	1643	1643	157
15°	1595	1582	1592	1584	1586	450
25°	1477	1464	1473	1458	1460	680
35°	1306	1298	1302	1288	1294	817
45°	1096	1094	1094	1079	1083	846
55°	856	858	854	842	848	766
65°	602	595	591	585	587	595
75°	330	326	320	316	318	350
85°	88	88	84	80	82	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.5	1653.5	1653.5	1653.5	1653.5
2.5°	1664.0	1649.3	1657.7	1649.3	1640.9
5°	1655.6	1643.0	1653.5	1643.0	1643.0
7.5°	1647.2	1634.6	1643.0	1632.5	1634.6
10°	1634.6	1622.0	1630.4	1622.0	1624.1
12.5°	1617.8	1603.0	1613.6	1605.1	1605.1
15°	1594.6	1582.0	1592.5	1584.1	1586.2
17.5°	1569.4	1556.8	1569.4	1558.9	1558.9
20°	1542.0	1529.4	1542.0	1529.4	1531.5
22.5°	1510.5	1500.0	1508.4	1493.6	1495.7
25°	1476.8	1464.2	1472.6	1457.9	1460.0
27.5°	1436.8	1426.3	1434.7	1420.0	1422.1
30°	1396.9	1386.4	1394.8	1377.9	1382.1
32.5°	1352.7	1342.2	1348.5	1335.9	1340.1
35°	1306.4	1298.0	1302.2	1287.5	1293.8
37.5°	1255.9	1249.6	1255.9	1239.1	1243.3
40°	1203.3	1199.1	1205.4	1188.6	1190.7
42.5°	1152.8	1146.5	1152.8	1136.0	1138.1
45°	1096.0	1093.9	1093.9	1079.2	1083.4
47.5°	1039.2	1037.1	1037.1	1022.4	1026.6
50°	980.3	980.3	978.2	963.5	967.7
52.5°	919.3	919.3	917.2	904.6	910.9
55°	856.2	858.3	854.1	841.5	847.8
57.5°	795.2	795.2	791.0	780.5	784.7
60°	732.1	730.0	725.8	715.3	719.5
62.5°	669.0	664.8	658.5	650.0	654.3
65°	601.7	595.4	591.1	584.8	586.9
67.5°	536.4	528.0	521.7	513.3	517.5
70°	464.9	458.6	452.3	446.0	450.2
72.5°	397.6	391.3	385.0	380.8	382.9
75°	330.3	326.1	319.8	315.6	317.7
77.5°	267.2	260.9	258.8	252.4	254.6
80°	202.0	199.9	197.7	191.4	193.5
82.5°	143.1	143.1	138.8	134.6	136.7
85°	88.4	88.4	84.1	79.9	82.0
87.5°	37.9	35.8	35.8	33.7	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)