

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: P395204

Luminaire Tested: **4FSN6-SL1-CA08-L8SCT3-3500K-MID**

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: P395204
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-CA08-L8SCT3-3500K-MID
Description: 4FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 3500K LEDS AND CA08 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3257.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

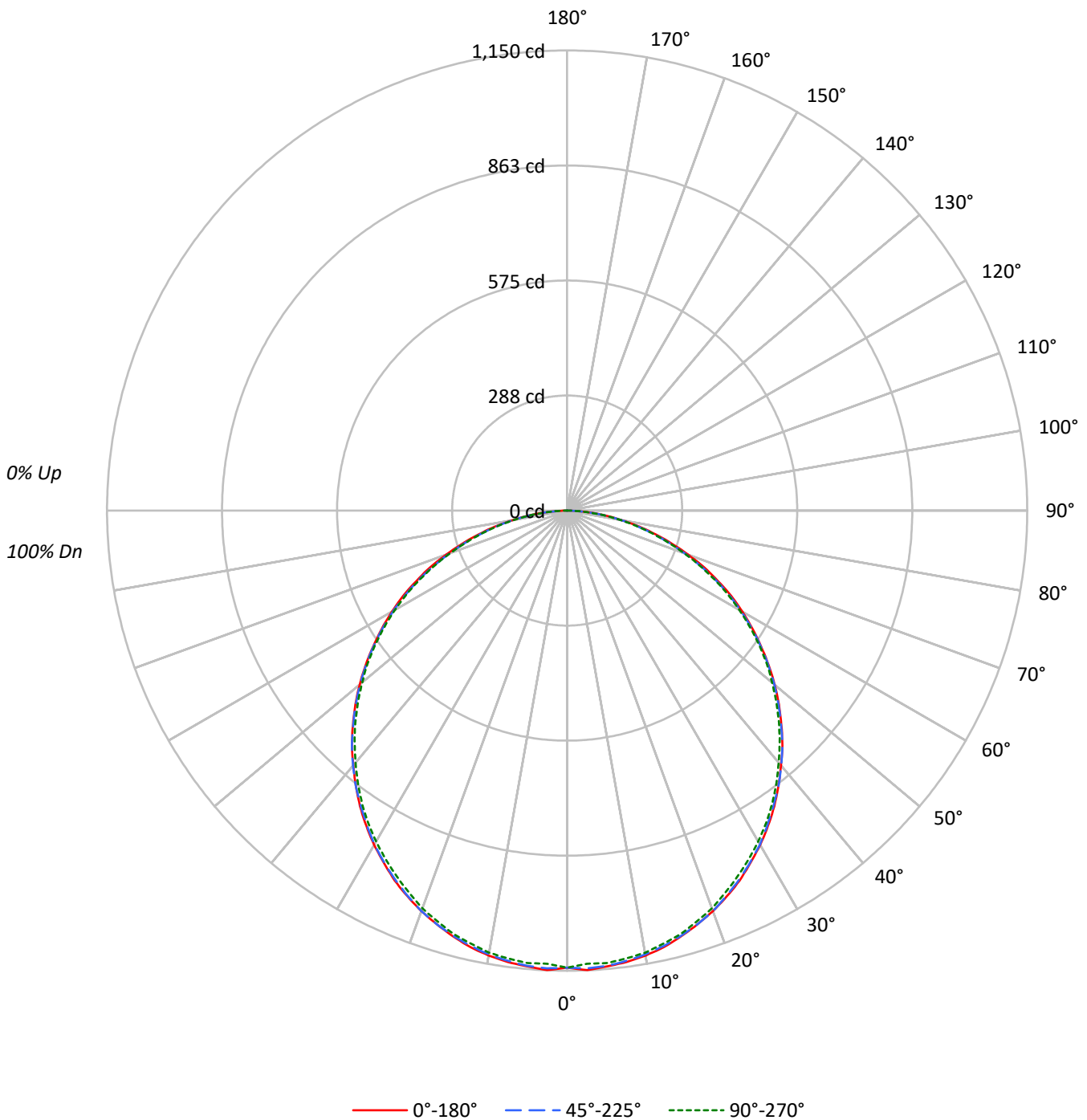
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6147	6147	6147
5°	6179	6171	6131
10°	6171	6155	6131
15°	6137	6130	6105
20°	6101	6101	6059
25°	6058	6040	5989
30°	5996	5988	5933
35°	5929	5910	5872
40°	5840	5850	5779
45°	5762	5752	5696
50°	5670	5658	5597
55°	5550	5536	5495
60°	5443	5397	5350
65°	5293	5200	5163
70°	5054	4916	4894
75°	4745	4593	4562
80°	4324	4234	4144
85°	3767	3588	3501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	3.3
10°-20°	309.3	9.5
20°-30°	466.7	14.3
30°-40°	560.5	17.2
40°-50°	580.5	17.8
50°-60°	525.9	16.1
60°-70°	403.6	12.4
70°-80°	235.3	7.2
80°-90°	67.1	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°	884.1	27.1
0°-40°	1444.6	44.4
0°-60°	2551.0	78.3
0°-90°	3257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1144	1135	1142	1135	1135	109
15°	1102	1093	1100	1094	1096	311
25°	1020	1011	1017	1007	1008	470
35°	902	897	900	889	894	564
45°	757	756	756	746	748	584
55°	592	593	590	581	586	529
65°	416	411	408	404	405	411
75°	228	225	221	218	219	242
85°	61	61	58	55	57	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.2	1142.2	1142.2	1142.2	1142.2
2.5°	1149.5	1139.3	1145.1	1139.3	1133.5
5°	1143.7	1134.9	1142.2	1134.9	1134.9
7.5°	1137.9	1129.1	1134.9	1127.7	1129.1
10°	1129.1	1120.4	1126.2	1120.4	1121.9
12.5°	1117.5	1107.3	1114.6	1108.8	1108.8
15°	1101.5	1092.8	1100.1	1094.3	1095.7
17.5°	1084.1	1075.4	1084.1	1076.8	1076.8
20°	1065.2	1056.5	1065.2	1056.5	1057.9
22.5°	1043.4	1036.1	1041.9	1031.8	1033.2
25°	1020.1	1011.4	1017.2	1007.1	1008.5
27.5°	992.5	985.3	991.1	980.9	982.4
30°	964.9	957.7	963.5	951.8	954.7
32.5°	934.4	927.1	931.5	922.8	925.7
35°	902.4	896.6	899.5	889.4	893.7
37.5°	867.6	863.2	867.6	855.9	858.8
40°	831.2	828.3	832.7	821.1	822.5
42.5°	796.4	792.0	796.4	784.7	786.2
45°	757.1	755.7	755.7	745.5	748.4
47.5°	717.9	716.4	716.4	706.3	709.2
50°	677.2	677.2	675.7	665.6	668.5
52.5°	635.0	635.0	633.6	624.9	629.2
55°	591.5	592.9	590.0	581.3	585.6
57.5°	549.3	549.3	546.4	539.1	542.0
60°	505.7	504.3	501.4	494.1	497.0
62.5°	462.1	459.2	454.9	449.0	451.9
65°	415.6	411.3	408.3	404.0	405.4
67.5°	370.6	364.8	360.4	354.6	357.5
70°	321.2	316.8	312.4	308.1	311.0
72.5°	274.7	270.3	265.9	263.0	264.5
75°	228.2	225.2	220.9	218.0	219.4
77.5°	184.6	180.2	178.7	174.4	175.8
80°	139.5	138.1	136.6	132.2	133.7
82.5°	98.8	98.8	95.9	93.0	94.5
85°	61.0	61.0	58.1	55.2	56.7
87.5°	26.2	24.7	24.7	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)