

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: P395297

Luminaire Tested: **8FSN6-SL1-CA08-L8SCT3-4000K-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: P395297
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-CA08-L8SCT3-4000K-MID
Description: 8FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 4000K LEDS AND CA08 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7034.0 lumens
Efficiency: N/A
Efficacy: 112.7 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

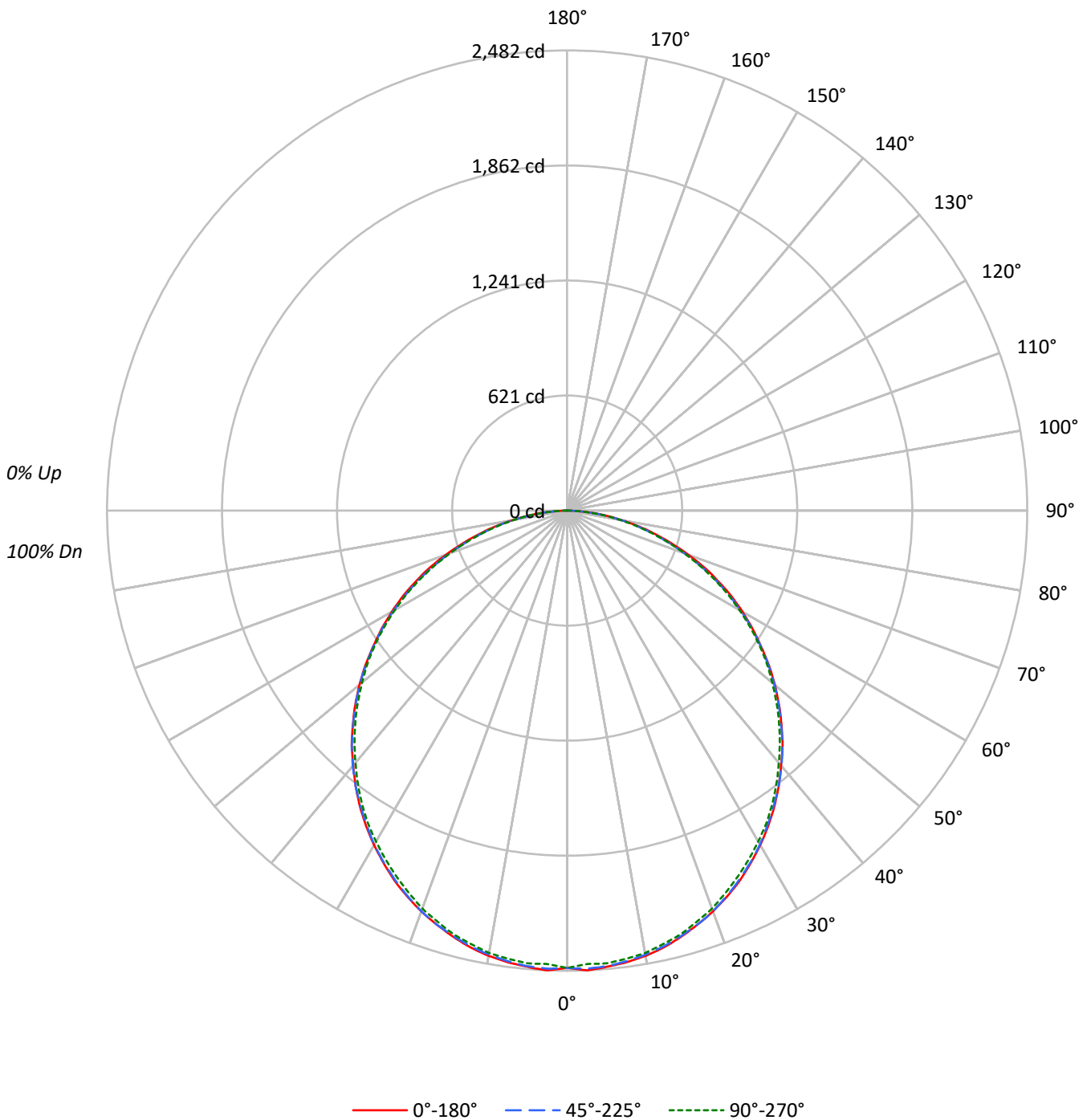
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6638	6638	6638
5°	6672	6663	6621
10°	6663	6646	6620
15°	6627	6619	6593
20°	6588	6588	6543
25°	6542	6523	6467
30°	6475	6466	6407
35°	6402	6382	6341
40°	6306	6317	6240
45°	6223	6211	6151
50°	6123	6110	6044
55°	5993	5978	5934
60°	5878	5827	5776
65°	5715	5615	5575
70°	5457	5309	5284
75°	5123	4959	4927
80°	4669	4572	4474
85°	4069	3875	3779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.5	3.3
10°-20°	668.1	9.5
20°-30°	1007.8	14.3
30°-40°	1210.4	17.2
40°-50°	1253.7	17.8
50°-60°	1135.7	16.1
60°-70°	871.7	12.4
70°-80°	508.1	7.2
80°-90°	144.9	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°	1909.5	27.1
0°-40°	3119.9	44.4
0°-60°	5509.3	78.3
0°-90°	7034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2467	2467	2467	2467	2467	
5°	2470	2451	2467	2451	2451	235
15°	2379	2360	2376	2363	2366	671
25°	2203	2184	2197	2175	2178	1014
35°	1949	1936	1943	1921	1930	1218
45°	1635	1632	1632	1610	1616	1262
55°	1277	1280	1274	1255	1265	1143
65°	898	888	882	872	876	888
75°	493	486	477	471	474	523
85°	132	132	126	119	122	150
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2466.8	2466.8	2466.8	2466.8	2466.8
2.5°	2482.5	2460.5	2473.1	2460.5	2448.0
5°	2469.9	2451.1	2466.8	2451.1	2451.1
7.5°	2457.4	2438.5	2451.1	2435.4	2438.5
10°	2438.5	2419.7	2432.3	2419.7	2422.8
12.5°	2413.4	2391.5	2407.2	2394.6	2394.6
15°	2378.9	2360.1	2375.8	2363.2	2366.4
17.5°	2341.2	2322.4	2341.2	2325.6	2325.6
20°	2300.4	2281.6	2300.4	2281.6	2284.8
22.5°	2253.4	2237.7	2250.2	2228.3	2231.4
25°	2203.2	2184.3	2196.9	2174.9	2178.1
27.5°	2143.5	2127.8	2140.4	2118.4	2121.6
30°	2083.9	2068.2	2080.8	2055.7	2061.9
32.5°	2018.0	2002.3	2011.7	1992.9	1999.2
35°	1948.9	1936.4	1942.7	1920.7	1930.1
37.5°	1873.6	1864.2	1873.6	1848.5	1854.8
40°	1795.2	1788.9	1798.3	1773.2	1776.3
42.5°	1719.8	1710.4	1719.8	1694.7	1697.9
45°	1635.1	1632.0	1632.0	1610.0	1616.3
47.5°	1550.4	1547.2	1547.2	1525.3	1531.5
50°	1462.5	1462.5	1459.4	1437.4	1443.7
52.5°	1371.5	1371.5	1368.3	1349.5	1358.9
55°	1277.3	1280.5	1274.2	1255.4	1264.8
57.5°	1186.3	1186.3	1180.0	1164.3	1170.6
60°	1092.2	1089.0	1082.7	1067.1	1073.3
62.5°	998.0	991.7	982.3	969.8	976.0
65°	897.6	888.2	881.9	872.5	875.6
67.5°	800.3	787.7	778.3	765.8	772.0
70°	693.6	684.2	674.8	665.3	671.6
72.5°	593.2	583.7	574.3	568.1	571.2
75°	492.7	486.5	477.0	470.8	473.9
77.5°	398.6	389.2	386.0	376.6	379.7
80°	301.3	298.1	295.0	285.6	288.7
82.5°	213.4	213.4	207.1	200.9	204.0
85°	131.8	131.8	125.5	119.3	122.4
87.5°	56.5	53.4	53.4	50.2	50.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)