

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: P395315

Luminaire Tested: **8FSN6-SL1-CP125-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: P395315
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-CP125-L8SCT3-4000K-MID
Description: 8FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 4000K LEDS AND CP125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6828.0 lumens
Efficiency: N/A
Efficacy: 109.4 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

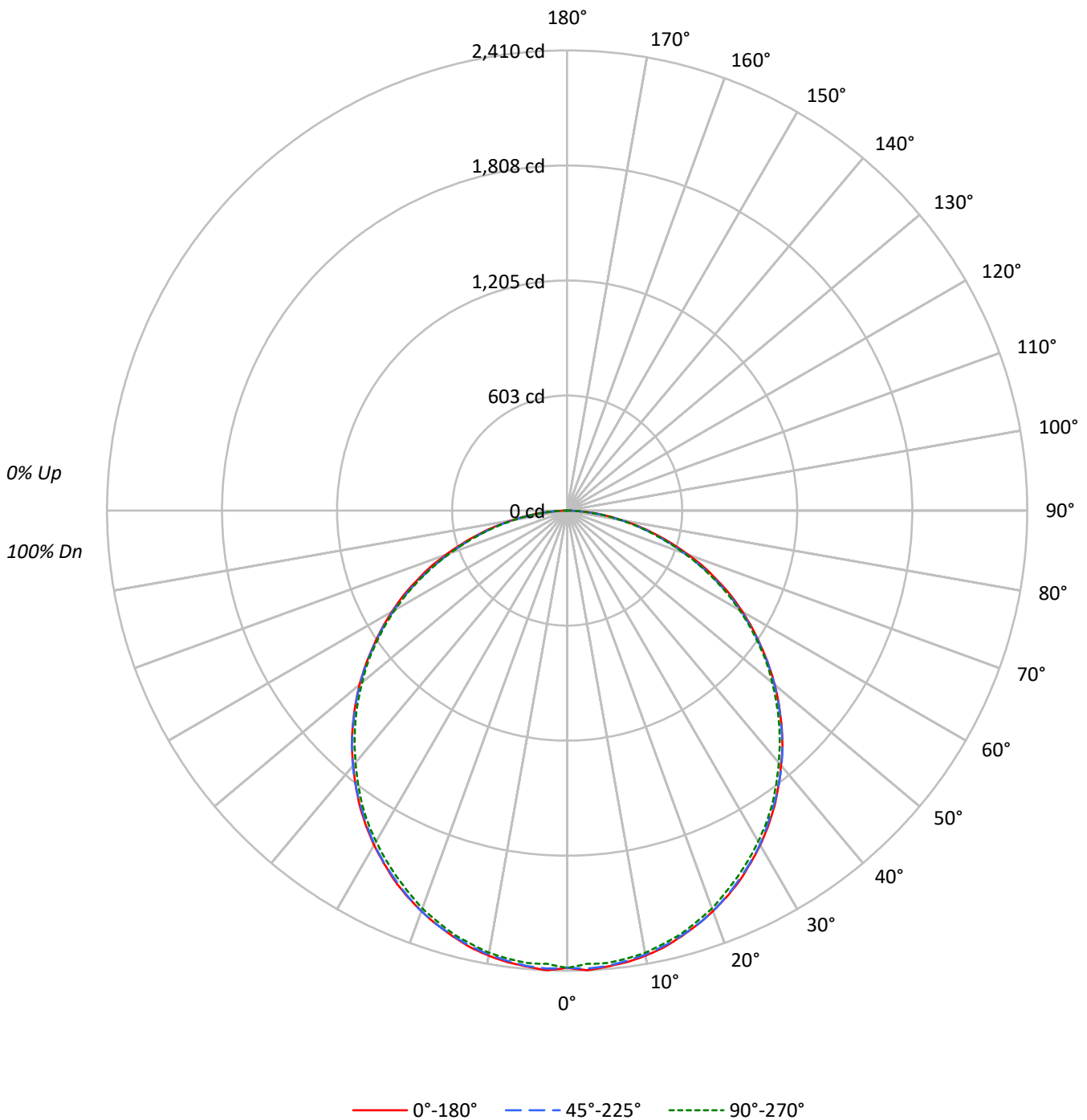
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6444	6444	6444
5°	6477	6468	6427
10°	6468	6451	6427
15°	6433	6425	6400
20°	6395	6395	6351
25°	6350	6332	6278
30°	6286	6276	6219
35°	6215	6195	6155
40°	6121	6132	6057
45°	6040	6029	5971
50°	5943	5930	5867
55°	5817	5803	5760
60°	5706	5656	5607
65°	5548	5451	5412
70°	5297	5153	5129
75°	4973	4815	4783
80°	4533	4438	4344
85°	3952	3764	3668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.7	3.3
10°-20°	648.5	9.5
20°-30°	978.3	14.3
30°-40°	1175.0	17.2
40°-50°	1216.9	17.8
50°-60°	1102.5	16.1
60°-70°	846.2	12.4
70°-80°	493.2	7.2
80°-90°	140.7	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°	1853.5	27.1
0°-40°	3028.5	44.4
0°-60°	5347.9	78.3
0°-90°	6828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2394	2394	2394	2394	2394	
5°	2398	2379	2394	2379	2379	228
15°	2309	2291	2306	2294	2297	652
25°	2139	2120	2132	2111	2114	985
35°	1892	1880	1886	1864	1874	1183
45°	1587	1584	1584	1563	1569	1225
55°	1240	1243	1237	1219	1228	1110
65°	871	862	856	847	850	862
75°	478	472	463	457	460	507
85°	128	128	122	116	119	146
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2394.5	2394.5	2394.5	2394.5	2394.5
2.5°	2409.8	2388.4	2400.6	2388.4	2376.3
5°	2397.6	2379.3	2394.5	2379.3	2379.3
7.5°	2385.4	2367.1	2379.3	2364.1	2367.1
10°	2367.1	2348.8	2361.0	2348.8	2351.9
12.5°	2342.8	2321.4	2336.7	2324.5	2324.5
15°	2309.2	2291.0	2306.2	2294.0	2297.1
17.5°	2272.7	2254.4	2272.7	2257.4	2257.4
20°	2233.1	2214.8	2233.1	2214.8	2217.8
22.5°	2187.4	2172.1	2184.3	2163.0	2166.1
25°	2138.6	2120.4	2132.5	2111.2	2114.3
27.5°	2080.8	2065.5	2077.7	2056.4	2059.4
30°	2022.9	2007.6	2019.8	1995.5	2001.5
32.5°	1958.9	1943.7	1952.8	1934.5	1940.6
35°	1891.9	1879.7	1885.8	1864.5	1873.6
37.5°	1818.8	1809.6	1818.8	1794.4	1800.5
40°	1742.6	1736.5	1745.6	1721.3	1724.3
42.5°	1669.5	1660.3	1669.5	1645.1	1648.2
45°	1587.2	1584.2	1584.2	1562.8	1568.9
47.5°	1505.0	1501.9	1501.9	1480.6	1486.7
50°	1419.7	1419.7	1416.6	1395.3	1401.4
52.5°	1331.3	1331.3	1328.3	1310.0	1319.1
55°	1239.9	1243.0	1236.9	1218.6	1227.7
57.5°	1151.6	1151.6	1145.5	1130.2	1136.3
60°	1060.2	1057.1	1051.0	1035.8	1041.9
62.5°	968.8	962.7	953.6	941.4	947.5
65°	871.3	862.2	856.1	846.9	850.0
67.5°	776.9	764.7	755.5	743.3	749.4
70°	673.3	664.1	655.0	645.9	651.9
72.5°	575.8	566.6	557.5	551.4	554.5
75°	478.3	472.2	463.1	457.0	460.0
77.5°	386.9	377.8	374.7	365.6	368.6
80°	292.5	289.4	286.4	277.2	280.3
82.5°	207.2	207.2	201.1	195.0	198.0
85°	128.0	128.0	121.9	115.8	118.8
87.5°	54.8	51.8	51.8	48.7	48.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)