

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: P395330

Luminaire Tested: **8FSN6-SL1-CP250-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: P395330
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-MID
Description: 8FT FSN LINEAR LED FIXTURE WITH MID 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: 6527.0 lumens
Efficiency: N/A
Efficacy: 112.5 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

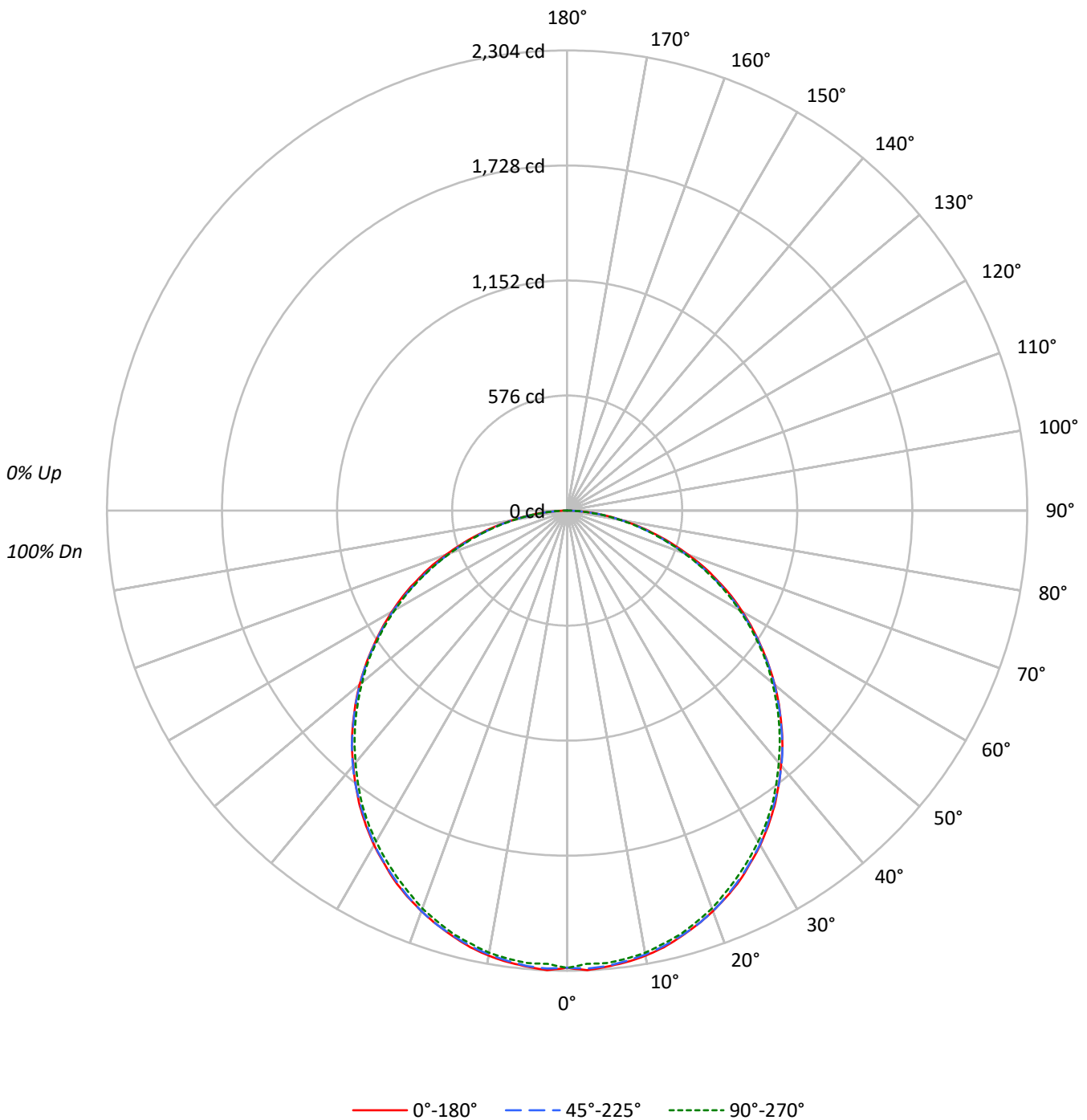
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6160	6160	6160
5°	6191	6183	6144
10°	6183	6167	6143
15°	6150	6142	6117
20°	6113	6113	6071
25°	6070	6053	6001
30°	6009	6000	5945
35°	5941	5922	5884
40°	5852	5862	5790
45°	5774	5763	5708
50°	5681	5669	5608
55°	5561	5547	5506
60°	5454	5407	5360
65°	5303	5210	5174
70°	5064	4926	4903
75°	4754	4603	4572
80°	4333	4241	4152
85°	3776	3597	3507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.7	3.3
10°-20°	619.9	9.5
20°-30°	935.2	14.3
30°-40°	1123.2	17.2
40°-50°	1163.3	17.8
50°-60°	1053.9	16.1
60°-70°	808.9	12.4
70°-80°	471.5	7.2
80°-90°	134.5	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°	1771.8	27.1
0°-40°	2895.0	44.4
0°-60°	5112.2	78.3
0°-90°	6527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6527.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2289	2289	2289	2289	2289	
5°	2292	2274	2289	2274	2274	218
15°	2207	2190	2204	2193	2196	623
25°	2044	2027	2038	2018	2021	941
35°	1808	1797	1803	1782	1791	1131
45°	1517	1514	1514	1494	1500	1171
55°	1185	1188	1182	1165	1174	1061
65°	833	824	818	810	812	824
75°	457	451	443	437	440	485
85°	122	122	116	111	114	139
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2289.0	2289.0	2289.0	2289.0	2289.0
2.5°	2303.5	2283.2	2294.8	2283.2	2271.5
5°	2291.9	2274.4	2289.0	2274.4	2274.4
7.5°	2280.2	2262.8	2274.4	2259.9	2262.8
10°	2262.8	2245.3	2256.9	2245.3	2248.2
12.5°	2239.5	2219.1	2233.7	2222.0	2222.0
15°	2207.4	2190.0	2204.5	2192.9	2195.8
17.5°	2172.5	2155.0	2172.5	2157.9	2157.9
20°	2134.6	2117.2	2134.6	2117.2	2120.1
22.5°	2091.0	2076.4	2088.0	2067.7	2070.6
25°	2044.4	2026.9	2038.5	2018.1	2021.1
27.5°	1989.0	1974.5	1986.1	1965.7	1968.6
30°	1933.7	1919.1	1930.8	1907.5	1913.3
32.5°	1872.5	1858.0	1866.7	1849.2	1855.1
35°	1808.5	1796.8	1802.6	1782.3	1791.0
37.5°	1738.6	1729.8	1738.6	1715.3	1721.1
40°	1665.8	1659.9	1668.7	1645.4	1648.3
42.5°	1595.9	1587.1	1595.9	1572.6	1575.5
45°	1517.3	1514.3	1514.3	1494.0	1499.8
47.5°	1438.6	1435.7	1435.7	1415.3	1421.1
50°	1357.1	1357.1	1354.2	1333.8	1339.6
52.5°	1272.6	1272.6	1269.7	1252.2	1261.0
55°	1185.3	1188.2	1182.3	1164.9	1173.6
57.5°	1100.8	1100.8	1095.0	1080.4	1086.2
60°	1013.4	1010.5	1004.7	990.1	996.0
62.5°	926.1	920.3	911.5	899.9	905.7
65°	832.9	824.2	818.3	809.6	812.5
67.5°	742.6	731.0	722.2	710.6	716.4
70°	643.6	634.9	626.1	617.4	623.2
72.5°	550.4	541.7	532.9	527.1	530.0
75°	457.2	451.4	442.7	436.8	439.7
77.5°	369.8	361.1	358.2	349.5	352.4
80°	279.6	276.7	273.7	265.0	267.9
82.5°	198.0	198.0	192.2	186.4	189.3
85°	122.3	122.3	116.5	110.7	113.6
87.5°	52.4	49.5	49.5	46.6	46.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)