

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: P395307

Luminaire Tested: **8FSN6-SL1-CP125-L8SCT3-3000K-HI**

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: P395307
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-L8SCT3-3000K-HI
Description: 8FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3000K LEDS AND CP125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7747.0 lumens
Efficiency: N/A
Efficacy: 100.2 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

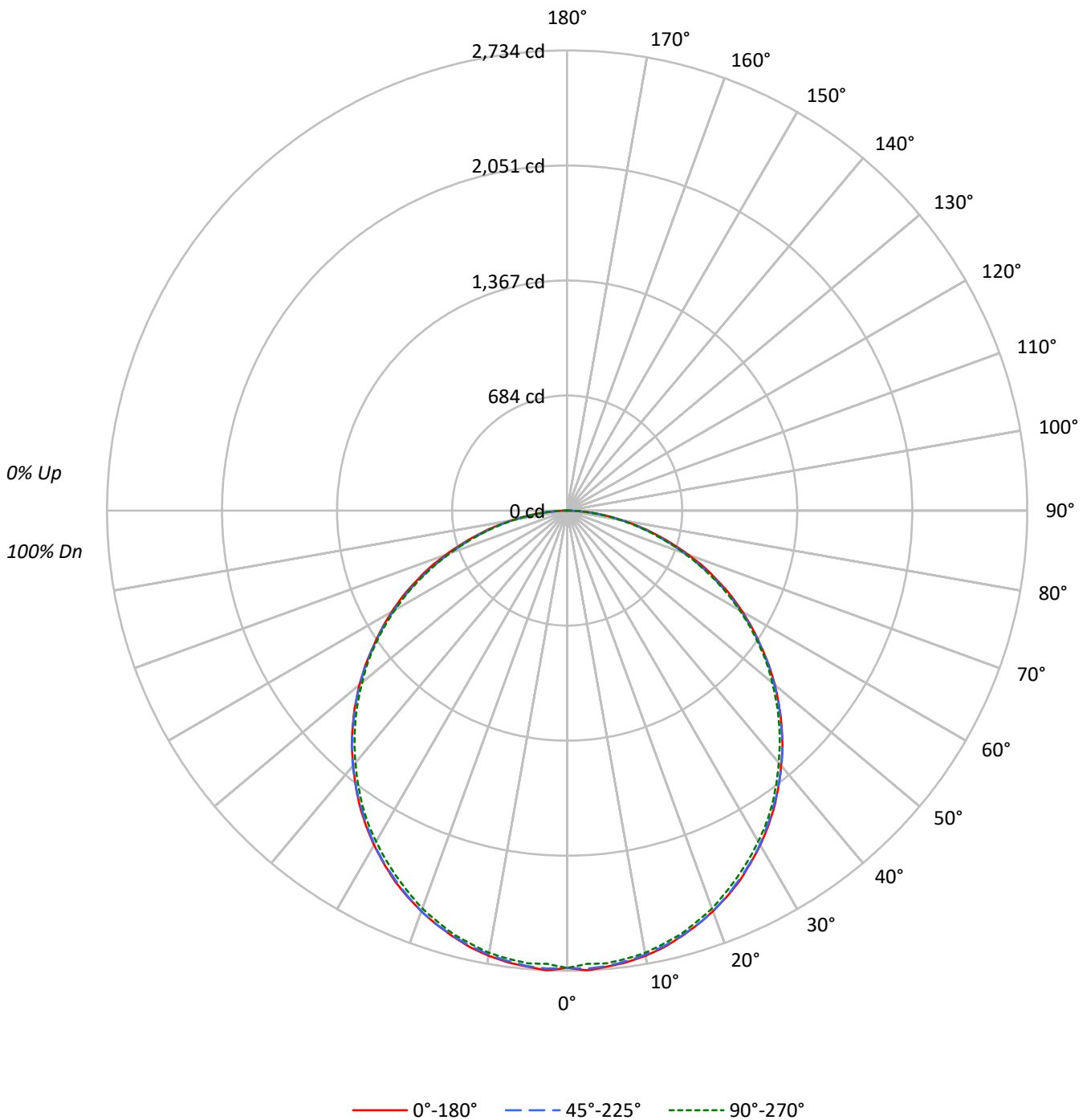
Input Watts (W): 77.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7311	7311	7311
5°	7348	7339	7292
10°	7339	7320	7291
15°	7299	7290	7261
20°	7255	7255	7206
25°	7205	7184	7122
30°	7132	7121	7056
35°	7051	7029	6983
40°	6945	6957	6872
45°	6854	6840	6774
50°	6743	6729	6656
55°	6600	6584	6535
60°	6474	6418	6362
65°	6295	6185	6141
70°	6010	5847	5820
75°	5643	5463	5426
80°	5142	5035	4928
85°	4483	4270	4162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.2	3.3
10°-20°	735.8	9.5
20°-30°	1110.0	14.3
30°-40°	1333.1	17.2
40°-50°	1380.7	17.8
50°-60°	1250.9	16.1
60°-70°	960.1	12.4
70°-80°	559.6	7.2
80°-90°	159.6	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°	2103.0	27.1
0°-40°	3436.1	44.4
0°-60°	6067.7	78.3
0°-90°	7747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2717	2717	2717	2717	2717	
5°	2720	2700	2717	2700	2700	259
15°	2620	2599	2617	2603	2606	739
25°	2426	2406	2420	2395	2399	1117
35°	2146	2133	2140	2115	2126	1342
45°	1801	1797	1797	1773	1780	1389
55°	1407	1410	1403	1383	1393	1259
65°	989	978	971	961	964	978
75°	543	536	525	518	522	576
85°	145	145	138	131	135	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2716.8	2716.8	2716.8	2716.8	2716.8
2.5°	2734.1	2709.9	2723.7	2709.9	2696.1
5°	2720.3	2699.5	2716.8	2699.5	2699.5
7.5°	2706.5	2685.7	2699.5	2682.3	2685.7
10°	2685.7	2665.0	2678.8	2665.0	2668.4
12.5°	2658.1	2633.9	2651.2	2637.3	2637.3
15°	2620.0	2599.3	2616.6	2602.8	2606.2
17.5°	2578.6	2557.8	2578.6	2561.3	2561.3
20°	2533.6	2512.9	2533.6	2512.9	2516.4
22.5°	2481.8	2464.5	2478.3	2454.1	2457.6
25°	2426.5	2405.7	2419.6	2395.4	2398.8
27.5°	2360.8	2343.5	2357.4	2333.2	2336.6
30°	2295.1	2277.9	2291.7	2264.0	2270.9
32.5°	2222.5	2205.3	2215.6	2194.9	2201.8
35°	2146.5	2132.7	2139.6	2115.4	2125.8
37.5°	2063.5	2053.2	2063.5	2035.9	2042.8
40°	1977.1	1970.2	1980.6	1952.9	1956.4
42.5°	1894.2	1883.8	1894.2	1866.5	1870.0
45°	1800.9	1797.4	1797.4	1773.2	1780.1
47.5°	1707.5	1704.1	1704.1	1679.9	1686.8
50°	1610.7	1610.7	1607.3	1583.1	1590.0
52.5°	1510.5	1510.5	1507.0	1486.3	1496.7
55°	1406.8	1410.3	1403.3	1382.6	1393.0
57.5°	1306.6	1306.6	1299.7	1282.4	1289.3
60°	1202.9	1199.4	1192.5	1175.2	1182.1
62.5°	1099.2	1092.3	1081.9	1068.1	1075.0
65°	988.6	978.2	971.3	960.9	964.4
67.5°	881.4	867.6	857.2	843.4	850.3
70°	763.9	753.5	743.2	732.8	739.7
72.5°	653.3	642.9	632.5	625.6	629.1
75°	542.7	535.8	525.4	518.5	521.9
77.5°	439.0	428.6	425.2	414.8	418.2
80°	331.8	328.4	324.9	314.5	318.0
82.5°	235.0	235.0	228.1	221.2	224.7
85°	145.2	145.2	138.3	131.3	134.8
87.5°	62.2	58.8	58.8	55.3	55.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)