

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: P556093

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-80-96-EDD**

Issue Date: 7/16/2021

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: P556093  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FUSL-12-2-LD4-3STD-50-UNV-80-96-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

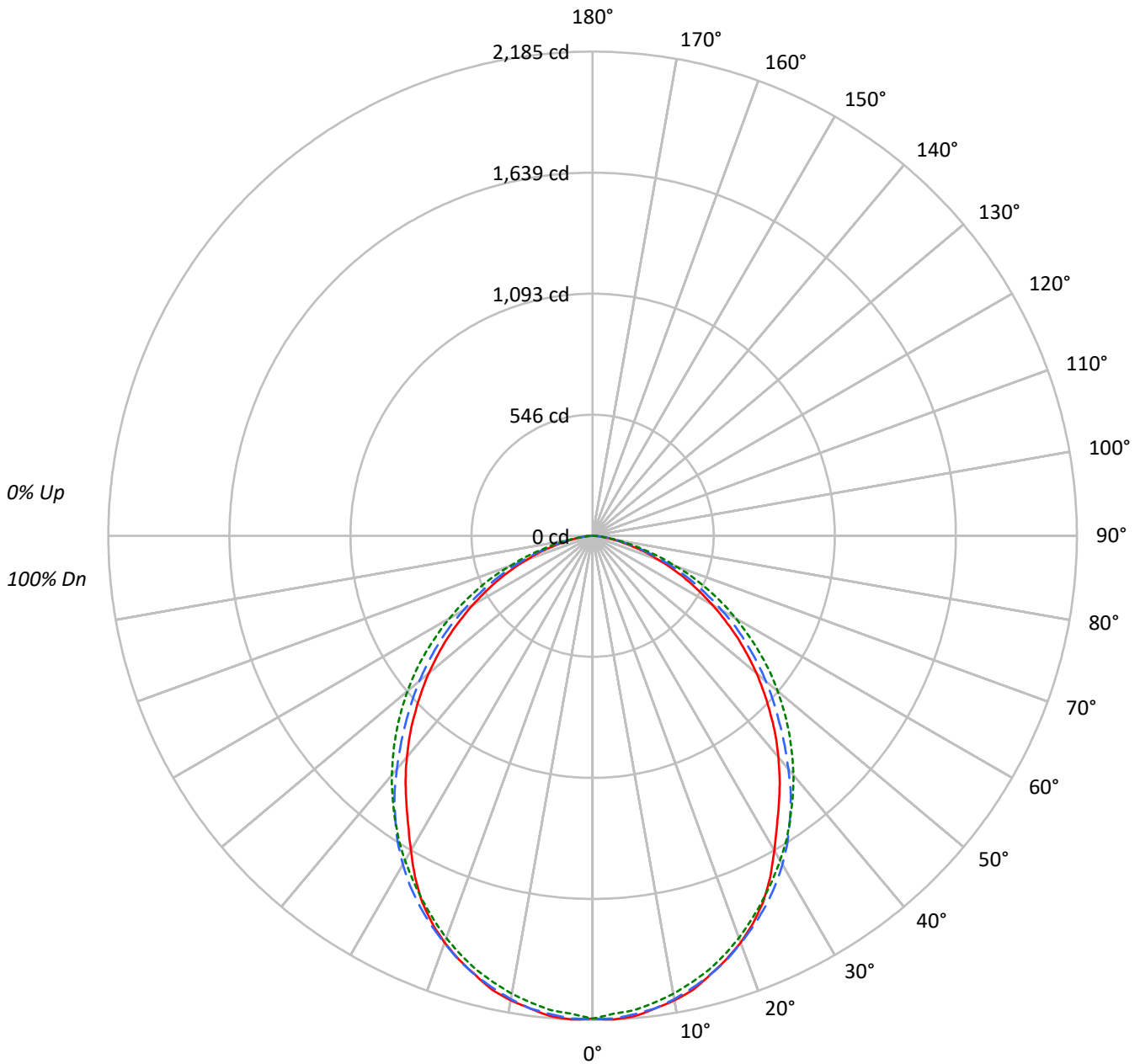
Lumens per Lamp: N/A  
Luminaire Lumens: 5039.0 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11728	11728	11728
5°	11760	11710	11611
10°	11635	11603	11470
15°	11428	11428	11298
20°	11187	11201	11057
25°	10818	10953	10779
30°	10187	10645	10515
35°	9626	10203	10220
40°	9158	9652	9905
45°	8634	9067	9533
50°	8082	8544	9126
55°	7455	7949	8633
60°	6713	7254	8029
65°	5928	6450	7303
70°	4941	5493	6205
75°	3882	4388	4858
80°	2777	3087	3425
85°	1809	1809	1704



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.2	4.1
10°-20°	576.4	11.4
20°-30°	842.3	16.7
30°-40°	956.1	19.0
40°-50°	923.0	18.3
50°-60°	761.4	15.1
60°-70°	507.0	10.1
70°-80°	226.9	4.5
80°-90°	40.6	0.8
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°	1623.9	32.2
0°-40°	2580.1	51.2
0°-60°	4264.5	84.6
0°-90°	5039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5039.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2179	2179	2179	2179	2179	
5°	2177	2176	2168	2156	2149	206
15°	2051	2056	2051	2042	2028	578
25°	1822	1836	1844	1831	1815	834
35°	1465	1485	1553	1561	1556	918
45°	1134	1154	1191	1246	1252	875
55°	794	808	847	894	920	709
65°	466	478	506	542	574	462
75°	187	197	211	221	234	204
85°	29	29	29	28	28	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2179.2	2179.2	2179.2	2179.2	2179.2
2.5°	2185.1	2185.9	2180.9	2167.5	2159.1
5°	2176.7	2175.9	2167.5	2155.8	2149.1
7.5°	2152.4	2154.1	2151.6	2134.9	2125.7
10°	2129.0	2129.8	2123.1	2109.7	2098.9
12.5°	2098.9	2098.0	2088.8	2082.1	2064.5
15°	2051.1	2056.2	2051.1	2041.9	2027.7
17.5°	2005.1	2005.1	2008.4	1992.5	1981.7
20°	1953.2	1955.7	1955.7	1943.1	1930.6
22.5°	1892.9	1900.4	1903.0	1889.6	1874.5
25°	1821.8	1836.0	1844.4	1831.0	1815.1
27.5°	1735.5	1757.3	1782.4	1772.4	1754.8
30°	1639.2	1671.1	1712.9	1704.5	1692.0
32.5°	1548.0	1579.8	1637.6	1634.2	1627.5
35°	1465.1	1485.2	1553.0	1561.4	1555.5
37.5°	1386.4	1404.8	1468.5	1487.7	1482.7
40°	1303.5	1323.6	1373.8	1408.2	1409.8
42.5°	1221.5	1240.7	1281.8	1331.2	1331.2
45°	1134.4	1153.7	1191.3	1245.8	1252.5
47.5°	1049.0	1069.1	1105.9	1160.4	1171.2
50°	965.3	983.7	1020.5	1073.3	1090.0
52.5°	878.2	898.3	934.3	982.9	1007.2
55°	794.5	807.9	847.2	894.1	920.1
57.5°	707.4	720.0	764.4	804.6	831.3
60°	623.7	639.6	673.9	715.0	745.9
62.5°	543.3	560.1	589.4	625.4	660.6
65°	465.5	478.0	506.5	542.5	573.5
67.5°	390.1	401.0	429.5	454.6	487.3
70°	314.0	328.2	349.1	373.4	394.3
72.5°	252.8	258.7	276.3	293.9	315.6
75°	186.7	196.7	211.0	221.0	233.6
77.5°	134.0	139.8	148.2	156.6	168.3
80°	89.6	92.1	99.6	101.3	110.5
82.5°	54.4	56.1	57.8	58.6	62.0
85°	29.3	29.3	29.3	27.6	27.6
87.5°	16.7	16.7	14.2	11.7	8.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)