

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: P554747

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-80-94-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: P554747  
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-LD4-2HI-40-UNV-80-94-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

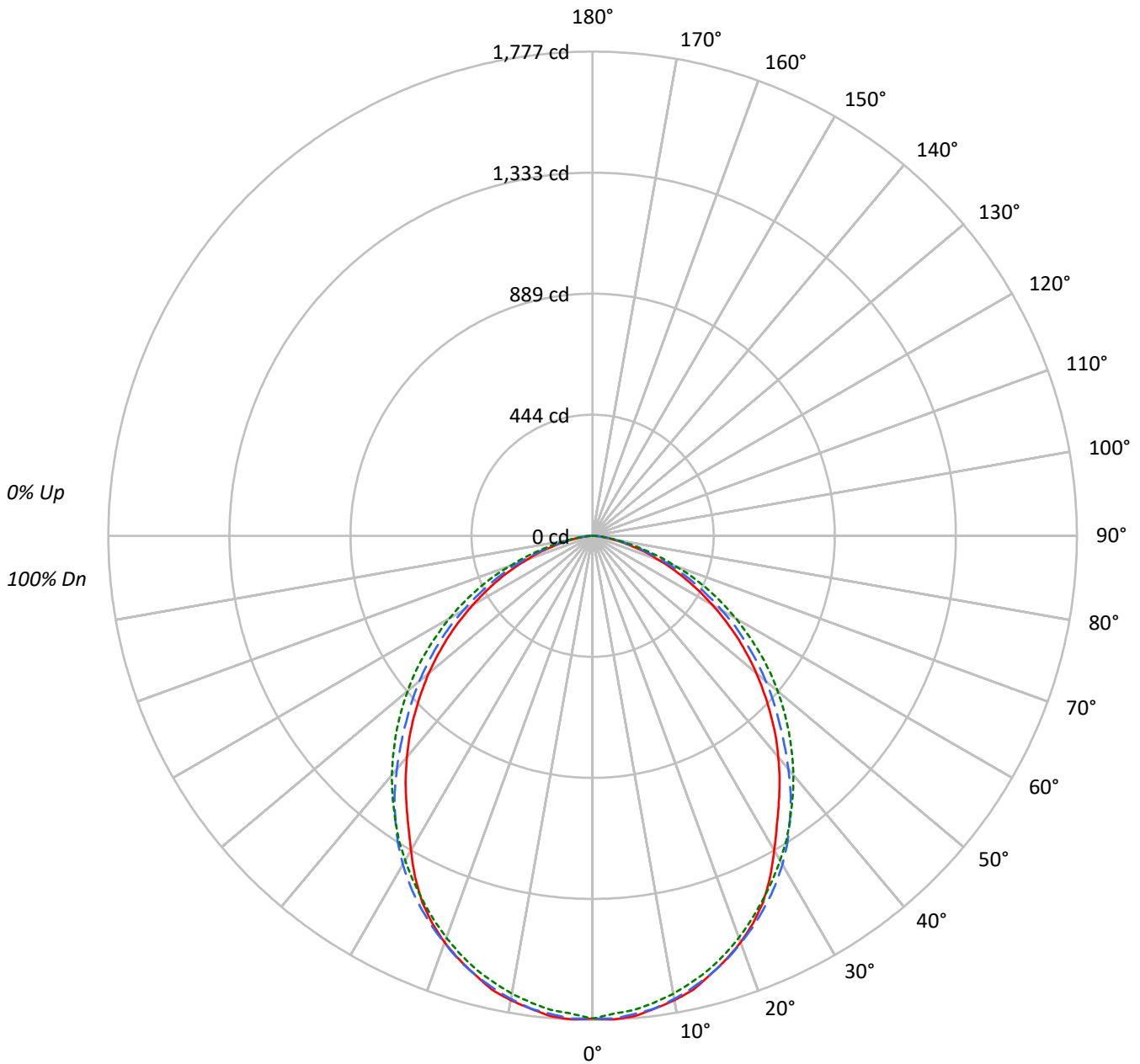
Lumens per Lamp: N/A  
Luminaire Lumens: 4097.0 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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					
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								
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86								
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73								
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63								
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54								
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47								
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42								
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37								
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34								
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30								
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28								

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

	0°	45°	90°
0°	9536	9536	9536
5°	9561	9521	9440
10°	9460	9434	9326
15°	9292	9292	9186
20°	9096	9107	8990
25°	8796	8905	8763
30°	8283	8655	8549
35°	7826	8296	8309
40°	7446	7848	8053
45°	7020	7372	7751
50°	6571	6948	7421
55°	6062	6464	7020
60°	5458	5899	6528
65°	4820	5244	5938
70°	4017	4466	5045
75°	3157	3566	3949
80°	2256	2510	2786
85°	1470	1470	1389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.8	4.1
10°-20°	468.7	11.4
20°-30°	684.9	16.7
30°-40°	777.4	19.0
40°-50°	750.4	18.3
50°-60°	619.1	15.1
60°-70°	412.3	10.1
70°-80°	184.5	4.5
80°-90°	33.0	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°	1320.3	32.2
0°-40°	2097.7	51.2
0°-60°	3467.3	84.6
0°-90°	4097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4097.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1772	1772	1772	1772	1772	
5°	1770	1769	1762	1753	1747	168
15°	1668	1672	1668	1660	1649	470
25°	1481	1493	1500	1489	1476	678
35°	1191	1208	1263	1270	1265	746
45°	922	938	969	1013	1018	712
55°	646	657	689	727	748	577
65°	378	389	412	441	466	375
75°	152	160	172	180	190	166
85°	24	24	24	22	22	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1771.8	1771.8	1771.8	1771.8	1771.8
2.5°	1776.6	1777.3	1773.2	1762.3	1755.5
5°	1769.8	1769.1	1762.3	1752.8	1747.3
7.5°	1750.1	1751.4	1749.4	1735.8	1728.3
10°	1731.0	1731.7	1726.2	1715.3	1706.5
12.5°	1706.5	1705.8	1698.3	1692.9	1678.6
15°	1667.7	1671.8	1667.7	1660.2	1648.6
17.5°	1630.3	1630.3	1633.0	1620.1	1611.2
20°	1588.1	1590.1	1590.1	1579.9	1569.7
22.5°	1539.0	1545.2	1547.2	1536.3	1524.1
25°	1481.2	1492.8	1499.6	1488.7	1475.7
27.5°	1411.1	1428.8	1449.2	1441.0	1426.7
30°	1332.8	1358.7	1392.7	1385.9	1375.7
32.5°	1258.6	1284.5	1331.4	1328.7	1323.3
35°	1191.2	1207.6	1262.7	1269.5	1264.7
37.5°	1127.2	1142.2	1193.9	1209.6	1205.5
40°	1059.8	1076.2	1117.0	1144.9	1146.3
42.5°	993.1	1008.8	1042.1	1082.3	1082.3
45°	922.3	938.0	968.6	1012.9	1018.3
47.5°	852.9	869.2	899.2	943.4	952.3
50°	784.8	799.8	829.8	872.6	886.3
52.5°	714.0	730.4	759.7	799.1	818.9
55°	646.0	656.9	688.9	727.0	748.1
57.5°	575.2	585.4	621.5	654.1	675.9
60°	507.1	520.1	548.0	581.3	606.5
62.5°	441.8	455.4	479.2	508.5	537.1
65°	378.5	388.7	411.8	441.1	466.3
67.5°	317.2	326.1	349.2	369.6	396.2
70°	255.3	266.8	283.8	303.6	320.6
72.5°	205.6	210.3	224.6	238.9	256.6
75°	151.8	160.0	171.5	179.7	189.9
77.5°	108.9	113.7	120.5	127.3	136.8
80°	72.8	74.9	81.0	82.4	89.9
82.5°	44.2	45.6	47.0	47.6	50.4
85°	23.8	23.8	23.8	22.5	22.5
87.5°	13.6	13.6	11.6	9.5	6.8
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)