

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: P554731

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-93-94-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: P554731  
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-35-UNV-93-94-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

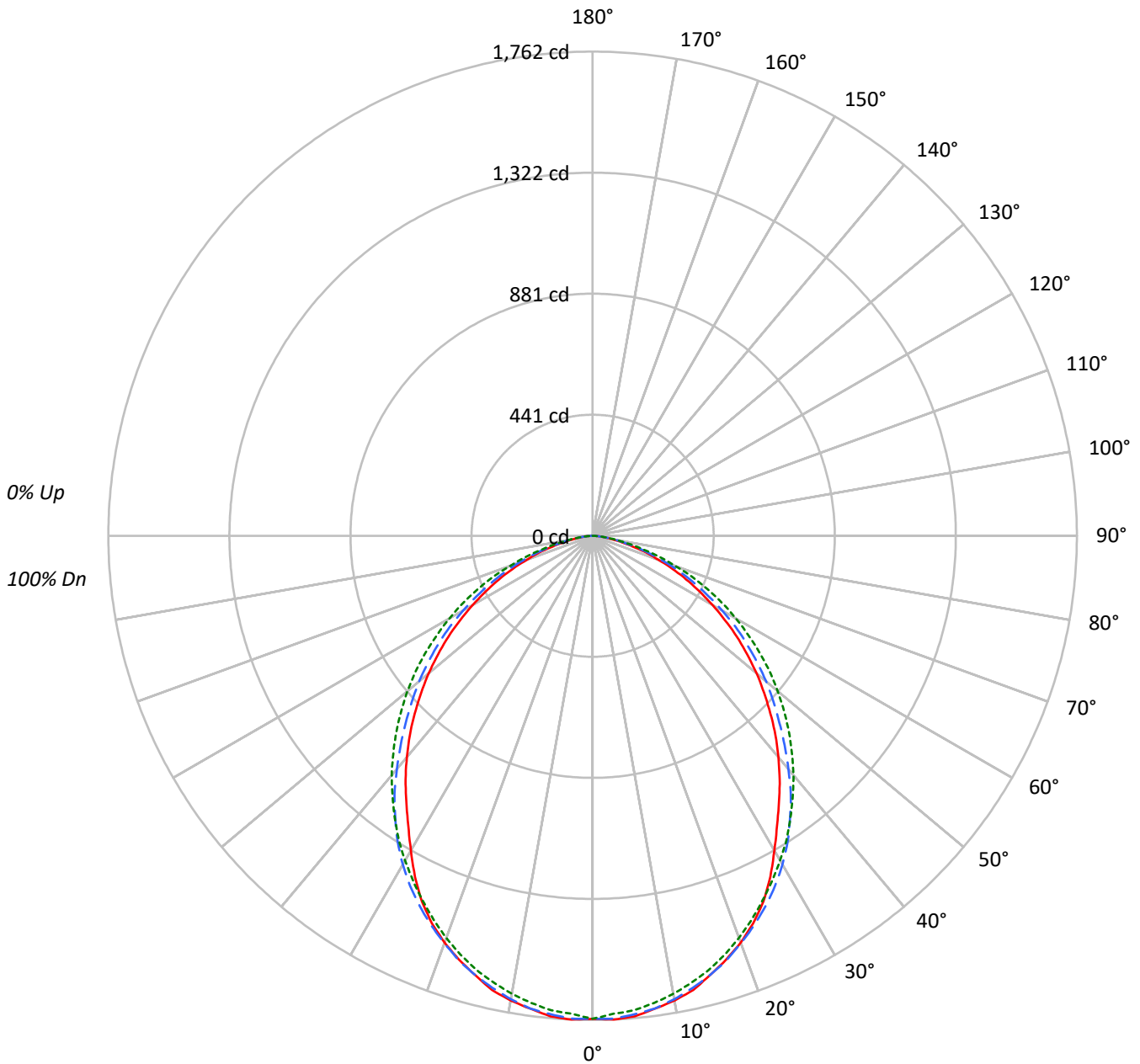
Lumens per Lamp: N/A  
Luminaire Lumens: 4064.0 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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									
RC	80									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°	9459	9459	9459
5°	9484	9444	9364
10°	9384	9358	9251
15°	9217	9217	9112
20°	9022	9034	8917
25°	8725	8833	8693
30°	8216	8585	8480
35°	7763	8229	8242
40°	7386	7784	7989
45°	6964	7313	7688
50°	6518	6892	7361
55°	6013	6412	6963
60°	5414	5850	6476
65°	4781	5202	5890
70°	3984	4431	5004
75°	3132	3539	3918
80°	2238	2492	2762
85°	1457	1457	1377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.5	4.1
10°-20°	464.9	11.4
20°-30°	679.3	16.7
30°-40°	771.1	19.0
40°-50°	744.4	18.3
50°-60°	614.1	15.1
60°-70°	408.9	10.1
70°-80°	183.0	4.5
80°-90°	32.7	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°	1309.7	32.2
0°-40°	2080.8	51.2
0°-60°	3439.3	84.6
0°-90°	4064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4064.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1756	1755	1748	1739	1733	166
15°	1654	1658	1654	1647	1635	466
25°	1469	1481	1488	1477	1464	673
35°	1182	1198	1252	1259	1254	740
45°	915	930	961	1005	1010	706
55°	641	652	683	721	742	572
65°	375	386	408	438	462	372
75°	151	159	170	178	188	165
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°	1757.6	1757.6	1757.6	1757.6	1757.6
2.5°	1762.3	1763.0	1758.9	1748.1	1741.4
5°	1755.5	1754.9	1748.1	1738.7	1733.3
7.5°	1736.0	1737.3	1735.3	1721.8	1714.4
10°	1717.1	1717.7	1712.3	1701.5	1692.8
12.5°	1692.8	1692.1	1684.7	1679.3	1665.1
15°	1654.3	1658.3	1654.3	1646.8	1635.4
17.5°	1617.1	1617.1	1619.8	1607.0	1598.2
20°	1575.3	1577.3	1577.3	1567.2	1557.0
22.5°	1526.7	1532.7	1534.8	1524.0	1511.8
25°	1469.3	1480.7	1487.5	1476.7	1463.9
27.5°	1399.7	1417.3	1437.5	1429.4	1415.2
30°	1322.1	1347.7	1381.5	1374.7	1364.6
32.5°	1248.5	1274.1	1320.7	1318.0	1312.6
35°	1181.6	1197.8	1252.5	1259.3	1254.5
37.5°	1118.1	1133.0	1184.3	1199.9	1195.8
40°	1051.3	1067.5	1108.0	1135.7	1137.1
42.5°	985.1	1000.7	1033.7	1073.6	1073.6
45°	914.9	930.4	960.8	1004.7	1010.1
47.5°	846.0	862.2	892.0	935.8	944.6
50°	778.5	793.4	823.1	865.6	879.1
52.5°	708.3	724.5	753.5	792.7	812.3
55°	640.8	651.6	683.3	721.1	742.1
57.5°	570.6	580.7	616.5	648.9	670.5
60°	503.0	515.9	543.5	576.6	601.6
62.5°	438.2	451.7	475.3	504.4	532.7
65°	375.4	385.5	408.5	437.5	462.5
67.5°	314.6	323.4	346.4	366.6	393.0
70°	253.2	264.7	281.6	301.1	318.0
72.5°	203.9	208.6	222.8	237.0	254.6
75°	150.6	158.7	170.2	178.3	188.4
77.5°	108.0	112.8	119.5	126.3	135.7
80°	72.2	74.3	80.4	81.7	89.1
82.5°	43.9	45.2	46.6	47.3	50.0
85°	23.6	23.6	23.6	22.3	22.3
87.5°	13.5	13.5	11.5	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)