

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: P555765

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-80-86-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: P555765  
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-LD4-3LO-40-UNV-80-86-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

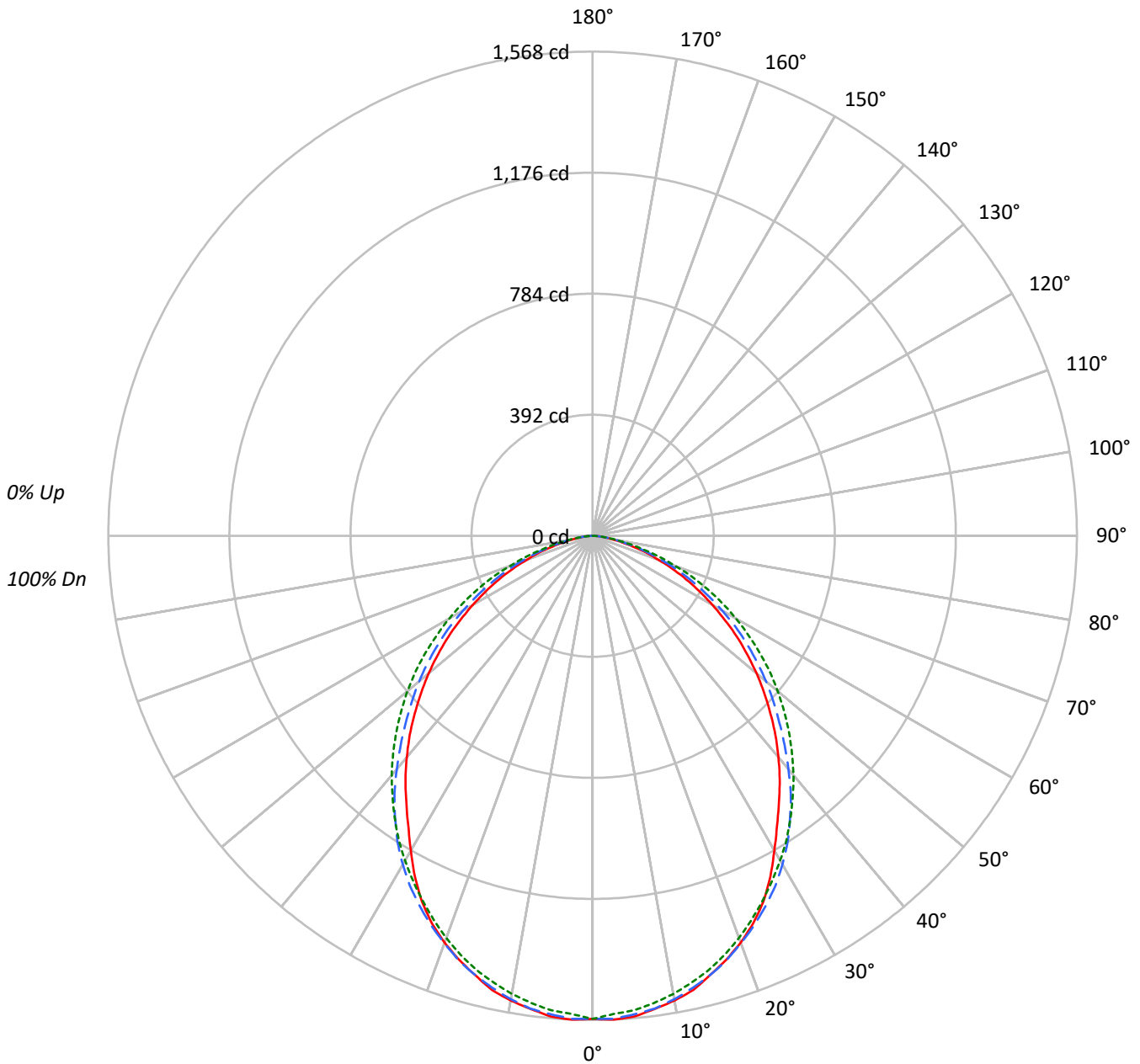
Lumens per Lamp: N/A  
Luminaire Lumens: 3617.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
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									
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°	8419	8419	8419
5°	8441	8405	8334
10°	8352	8329	8234
15°	8203	8203	8110
20°	8030	8040	7937
25°	7766	7862	7736
30°	7312	7641	7548
35°	6910	7324	7336
40°	6574	6929	7110
45°	6198	6508	6843
50°	5802	6134	6551
55°	5351	5707	6197
60°	4819	5208	5763
65°	4255	4630	5242
70°	3547	3943	4453
75°	2786	3148	3487
80°	1993	2216	2458
85°	1297	1297	1223



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.3	4.1
10°-20°	413.8	11.4
20°-30°	604.6	16.7
30°-40°	686.3	19.0
40°-50°	662.5	18.3
50°-60°	546.5	15.1
60°-70°	363.9	10.1
70°-80°	162.9	4.5
80°-90°	29.1	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°	1165.7	32.2
0°-40°	1852.0	51.2
0°-60°	3061.0	84.6
0°-90°	3617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3617.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1562	1562	1556	1547	1543	148
15°	1472	1476	1472	1466	1456	415
25°	1308	1318	1324	1314	1303	599
35°	1052	1066	1115	1121	1117	659
45°	814	828	855	894	899	628
55°	570	580	608	642	660	509
65°	334	343	364	389	412	331
75°	134	141	151	159	168	147
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1564.3	1564.3	1564.3	1564.3	1564.3
2.5°	1568.5	1569.1	1565.5	1555.8	1549.8
5°	1562.5	1561.9	1555.8	1547.4	1542.6
7.5°	1545.0	1546.2	1544.4	1532.4	1525.8
10°	1528.2	1528.8	1524.0	1514.4	1506.6
12.5°	1506.6	1506.0	1499.4	1494.5	1481.9
15°	1472.3	1475.9	1472.3	1465.7	1455.5
17.5°	1439.3	1439.3	1441.7	1430.2	1422.4
20°	1402.0	1403.8	1403.8	1394.8	1385.8
22.5°	1358.7	1364.1	1365.9	1356.3	1345.5
25°	1307.7	1317.9	1323.9	1314.3	1302.8
27.5°	1245.8	1261.4	1279.4	1272.2	1259.6
30°	1176.6	1199.5	1229.5	1223.5	1214.5
32.5°	1111.1	1134.0	1175.4	1173.0	1168.2
35°	1051.7	1066.1	1114.8	1120.8	1116.6
37.5°	995.2	1008.4	1054.1	1067.9	1064.3
40°	935.7	950.1	986.2	1010.8	1012.0
42.5°	876.8	890.6	920.0	955.5	955.5
45°	814.3	828.1	855.1	894.2	899.0
47.5°	753.0	767.4	793.8	832.9	840.7
50°	692.9	706.1	732.6	770.4	782.4
52.5°	630.4	644.8	670.7	705.5	722.9
55°	570.3	579.9	608.2	641.8	660.4
57.5°	507.8	516.8	548.7	577.5	596.7
60°	447.7	459.1	483.8	513.2	535.4
62.5°	390.0	402.0	423.1	448.9	474.1
65°	334.1	343.1	363.6	389.4	411.6
67.5°	280.0	287.9	308.3	326.3	349.7
70°	225.4	235.6	250.6	268.0	283.0
72.5°	181.5	185.7	198.3	210.9	226.6
75°	134.0	141.2	151.4	158.6	167.7
77.5°	96.2	100.4	106.4	112.4	120.8
80°	64.3	66.1	71.5	72.7	79.3
82.5°	39.1	40.3	41.5	42.1	44.5
85°	21.0	21.0	21.0	19.8	19.8
87.5°	12.0	12.0	10.2	8.4	6.0
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)