

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: P555819

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-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: P555819  
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-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 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

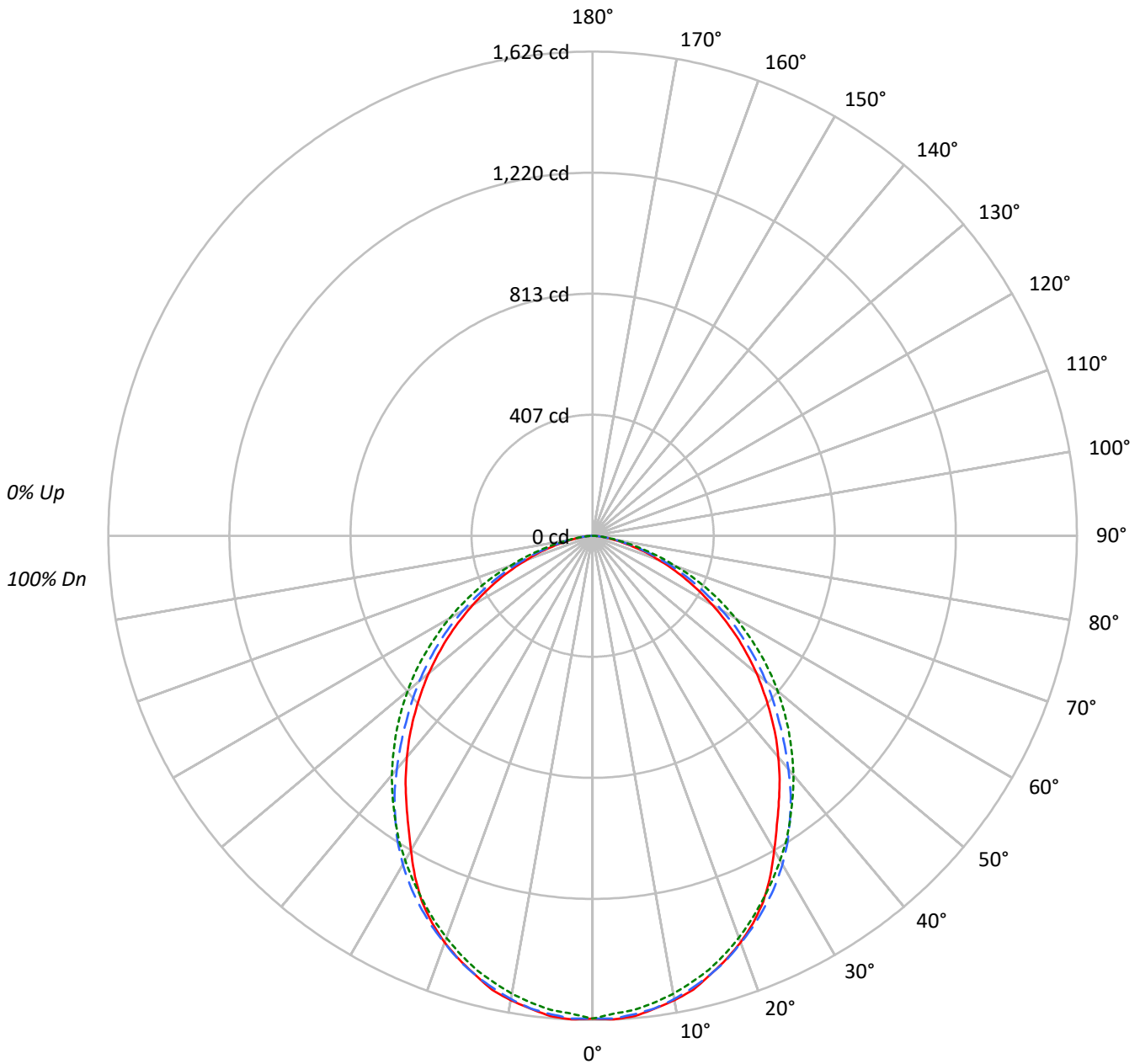
Lumens per Lamp: N/A  
Luminaire Lumens: 3749.0 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
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°	8726	8726	8726
5°	8749	8712	8638
10°	8657	8632	8534
15°	8503	8503	8406
20°	8323	8333	8227
25°	8049	8149	8019
30°	7579	7920	7823
35°	7161	7591	7604
40°	6813	7181	7369
45°	6424	6747	7092
50°	6013	6357	6790
55°	5546	5915	6423
60°	4994	5397	5974
65°	4410	4798	5434
70°	3676	4087	4617
75°	2888	3265	3614
80°	2064	2297	2548
85°	1346	1346	1272



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.7	4.1
10°-20°	428.8	11.4
20°-30°	626.7	16.7
30°-40°	711.4	19.0
40°-50°	686.7	18.3
50°-60°	566.5	15.1
60°-70°	377.2	10.1
70°-80°	168.8	4.5
80°-90°	30.2	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°	1208.2	32.2
0°-40°	1919.6	51.2
0°-60°	3172.8	84.6
0°-90°	3749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3749.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1621	1621	1621	1621	1621	
5°	1620	1619	1613	1604	1599	153
15°	1526	1530	1526	1519	1509	430
25°	1355	1366	1372	1362	1350	621
35°	1090	1105	1155	1162	1157	683
45°	844	858	886	927	932	651
55°	591	601	630	665	684	528
65°	346	356	377	404	427	343
75°	139	146	157	164	174	152
85°	22	22	22	21	21	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1621.3	1621.3	1621.3	1621.3	1621.3
2.5°	1625.7	1626.3	1622.6	1612.6	1606.4
5°	1619.5	1618.9	1612.6	1603.9	1598.9
7.5°	1601.4	1602.7	1600.8	1588.3	1581.5
10°	1584.0	1584.6	1579.6	1569.6	1561.5
12.5°	1561.5	1560.9	1554.1	1549.1	1536.0
15°	1526.0	1529.8	1526.0	1519.2	1508.6
17.5°	1491.8	1491.8	1494.3	1482.4	1474.3
20°	1453.2	1455.0	1455.0	1445.7	1436.4
22.5°	1408.3	1413.9	1415.8	1405.8	1394.6
25°	1355.4	1366.0	1372.2	1362.2	1350.4
27.5°	1291.2	1307.4	1326.1	1318.6	1305.5
30°	1219.6	1243.3	1274.4	1268.2	1258.8
32.5°	1151.7	1175.4	1218.3	1215.9	1210.9
35°	1090.0	1105.0	1155.4	1161.7	1157.3
37.5°	1031.5	1045.2	1092.5	1106.9	1103.1
40°	969.8	984.8	1022.1	1047.7	1048.9
42.5°	908.8	923.1	953.6	990.4	990.4
45°	844.0	858.3	886.4	926.8	931.8
47.5°	780.5	795.4	822.8	863.3	871.4
50°	718.2	731.9	759.3	798.5	811.0
52.5°	653.4	668.3	695.1	731.3	749.3
55°	591.1	601.1	630.4	665.2	684.5
57.5°	526.3	535.7	568.7	598.6	618.5
60°	464.0	475.9	501.4	531.9	555.0
62.5°	404.2	416.7	438.5	465.3	491.4
65°	346.3	355.7	376.8	403.6	426.7
67.5°	290.3	298.4	319.5	338.2	362.5
70°	233.6	244.2	259.7	277.8	293.4
72.5°	188.1	192.5	205.5	218.6	234.8
75°	138.9	146.4	157.0	164.4	173.8
77.5°	99.7	104.0	110.2	116.5	125.2
80°	66.6	68.5	74.1	75.4	82.2
82.5°	40.5	41.7	43.0	43.6	46.1
85°	21.8	21.8	21.8	20.6	20.6
87.5°	12.5	12.5	10.6	8.7	6.2
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)