

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: P554682

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-80-94-EDD-90**

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: P554682  
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-80-94-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

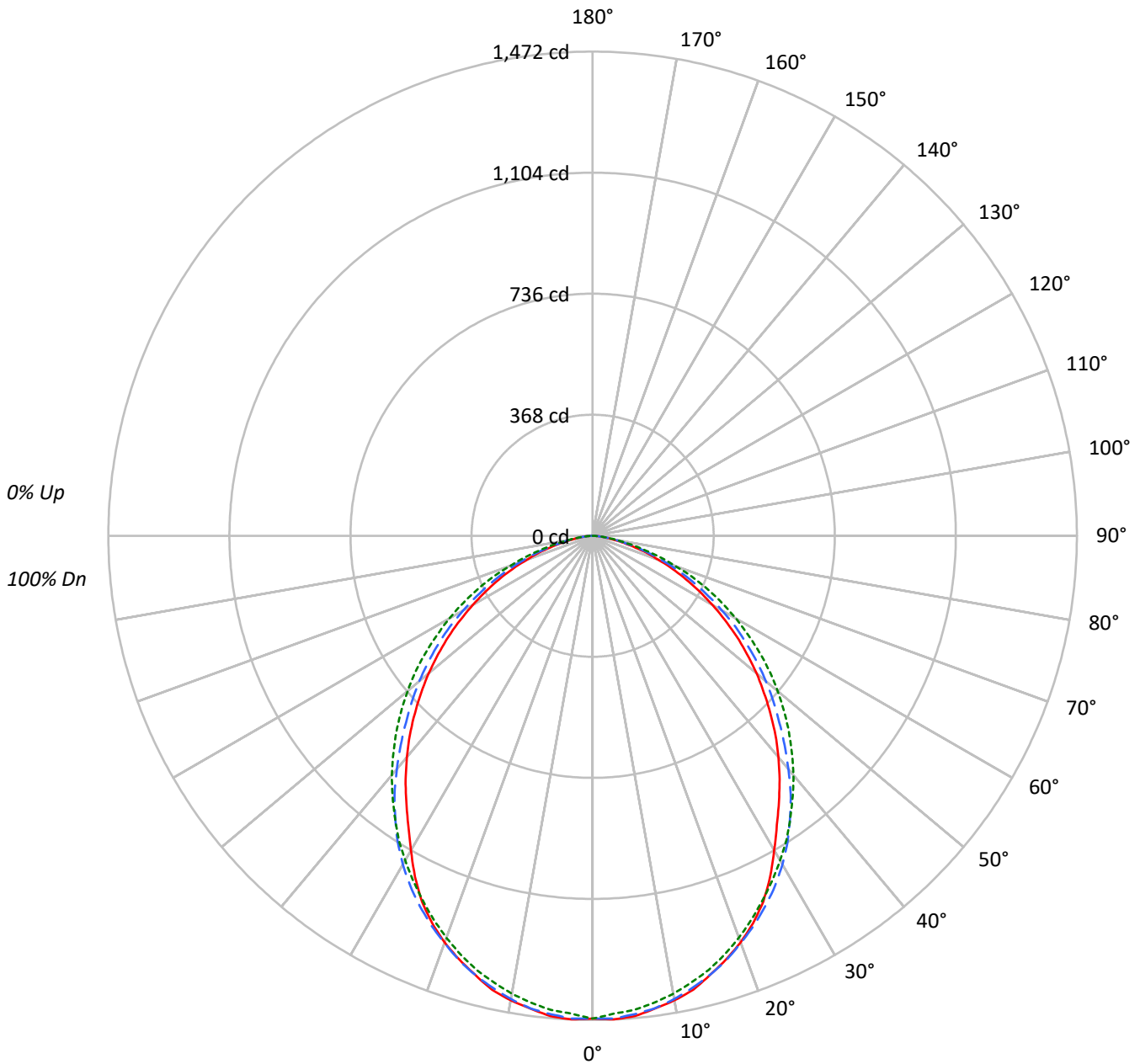
Lumens per Lamp: N/A  
Luminaire Lumens: 3394.0 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P554682

CATALOG NUMBER: FUSL-12-2-LD4-2HI-35-UNV-80-94-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P554682

CATALOG NUMBER: FUSL-12-2-LD4-2HI-35-UNV-80-94-EDD-90

**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°	7900	7900	7900
5°	7921	7887	7820
10°	7837	7815	7726
15°	7697	7697	7610
20°	7535	7545	7447
25°	7286	7377	7260
30°	6861	7170	7082
35°	6483	6872	6884
40°	6169	6502	6672
45°	5816	6107	6421
50°	5444	5755	6147
55°	5021	5355	5815
60°	4522	4886	5408
65°	3992	4345	4919
70°	3328	3699	4179
75°	2614	2955	3271
80°	1869	2080	2306
85°	1216	1216	1149



TEST NUMBER: P554682

CATALOG NUMBER: FUSL-12-2-LD4-2HI-35-UNV-80-94-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.2	4.1
10°-20°	388.2	11.4
20°-30°	567.3	16.7
30°-40°	644.0	19.0
40°-50°	621.7	18.3
50°-60°	512.8	15.1
60°-70°	341.5	10.1
70°-80°	152.8	4.5
80°-90°	27.3	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°	1093.8	32.2
0°-40°	1737.8	51.2
0°-60°	2872.3	84.6
0°-90°	3394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3394.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1468	1468	1468	1468	1468	
5°	1466	1466	1460	1452	1448	139
15°	1382	1385	1382	1375	1366	389
25°	1227	1237	1242	1233	1222	562
35°	987	1000	1046	1052	1048	618
45°	764	777	802	839	844	590
55°	535	544	571	602	620	478
65°	314	322	341	365	386	311
75°	126	132	142	149	157	137
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



TEST NUMBER: P554682

CATALOG NUMBER: FUSL-12-2-LD4-2HI-35-UNV-80-94-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1467.8	1467.8	1467.8	1467.8	1467.8
2.5°	1471.8	1472.3	1468.9	1459.9	1454.3
5°	1466.1	1465.6	1459.9	1452.0	1447.5
7.5°	1449.8	1450.9	1449.2	1437.9	1431.7
10°	1434.0	1434.5	1430.0	1421.0	1413.7
12.5°	1413.7	1413.1	1406.9	1402.4	1390.6
15°	1381.5	1384.9	1381.5	1375.3	1365.8
17.5°	1350.5	1350.5	1352.8	1342.1	1334.7
20°	1315.6	1317.3	1317.3	1308.8	1300.3
22.5°	1275.0	1280.0	1281.7	1272.7	1262.6
25°	1227.0	1236.6	1242.3	1233.2	1222.5
27.5°	1169.0	1183.6	1200.5	1193.8	1181.9
30°	1104.1	1125.5	1153.7	1148.1	1139.6
32.5°	1042.6	1064.1	1103.0	1100.7	1096.2
35°	986.8	1000.3	1046.0	1051.7	1047.7
37.5°	933.8	946.2	989.1	1002.0	998.7
40°	878.0	891.5	925.4	948.5	949.6
42.5°	822.7	835.7	863.3	896.6	896.6
45°	764.1	777.0	802.4	839.1	843.6
47.5°	706.6	720.1	744.9	781.6	788.9
50°	650.2	662.6	687.4	722.9	734.2
52.5°	591.5	605.1	629.3	662.0	678.4
55°	535.1	544.2	570.7	602.2	619.7
57.5°	476.5	484.9	514.8	541.9	559.9
60°	420.1	430.8	453.9	481.6	502.4
62.5°	366.0	377.2	397.0	421.2	444.9
65°	313.5	322.0	341.2	365.4	386.3
67.5°	262.8	270.1	289.3	306.2	328.2
70°	211.5	221.0	235.1	251.5	265.6
72.5°	170.3	174.2	186.1	197.9	212.6
75°	125.7	132.5	142.1	148.9	157.3
77.5°	90.2	94.2	99.8	105.4	113.3
80°	60.3	62.0	67.1	68.2	74.4
82.5°	36.7	37.8	38.9	39.5	41.7
85°	19.7	19.7	19.7	18.6	18.6
87.5°	11.3	11.3	9.6	7.9	5.6
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)