

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: P555189

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-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: P555189  
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-LD4-2STD-35-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 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

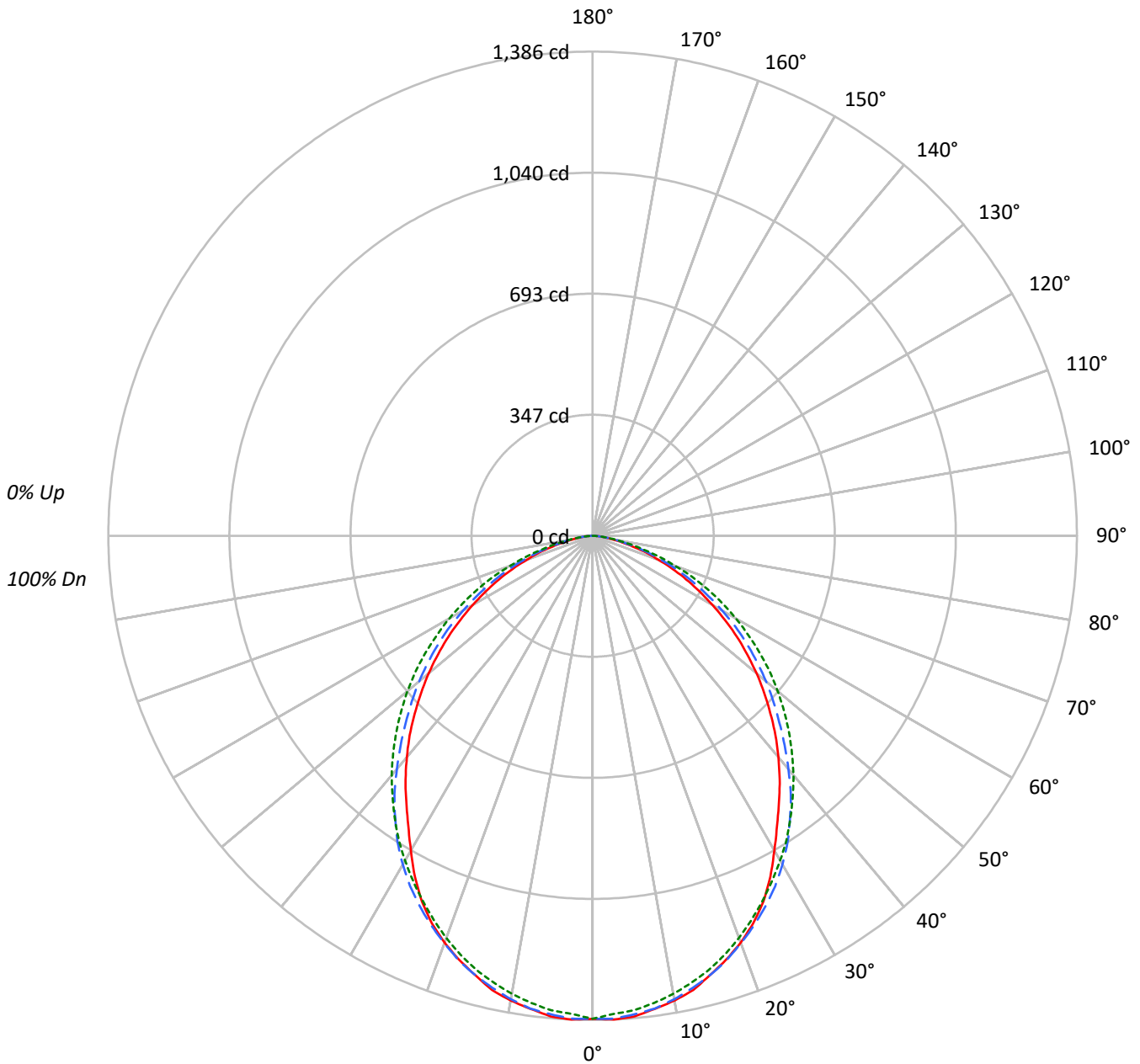
Lumens per Lamp: N/A  
Luminaire Lumens: 3197.0 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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

TEST NUMBER: P555189

CATALOG NUMBER: FUSL-12-2-LD4-2STD-35-UNV-80-86-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P555189

CATALOG NUMBER: FUSL-12-2-LD4-2STD-35-UNV-80-86-EDD

**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°	7441	7441	7441
5°	7461	7430	7366
10°	7382	7361	7277
15°	7251	7251	7168
20°	7097	7107	7015
25°	6864	6949	6839
30°	6463	6754	6671
35°	6107	6474	6484
40°	5810	6124	6284
45°	5478	5753	6048
50°	5128	5421	5791
55°	4730	5043	5477
60°	4259	4603	5095
65°	3761	4093	4633
70°	3135	3485	3937
75°	2462	2784	3082
80°	1760	1959	2173
85°	1149	1149	1081



TEST NUMBER: P555189

CATALOG NUMBER: FUSL-12-2-LD4-2STD-35-UNV-80-86-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.2	4.1
10°-20°	365.7	11.4
20°-30°	534.4	16.7
30°-40°	606.6	19.0
40°-50°	585.6	18.3
50°-60°	483.1	15.1
60°-70°	321.7	10.1
70°-80°	143.9	4.5
80°-90°	25.7	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°	1030.3	32.2
0°-40°	1636.9	51.2
0°-60°	2705.6	84.6
0°-90°	3197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3197.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1381	1380	1375	1368	1364	131
15°	1301	1304	1301	1296	1286	367
25°	1156	1165	1170	1162	1152	529
35°	930	942	985	991	987	582
45°	720	732	756	790	795	555
55°	504	513	538	567	584	450
65°	295	303	321	344	364	293
75°	118	125	134	140	148	130
85°	19	19	19	18	18	25
90°	0	0	0	0	0	



TEST NUMBER: P555189

CATALOG NUMBER: FUSL-12-2-LD4-2STD-35-UNV-80-86-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1386.3	1386.9	1383.7	1375.2	1369.9
5°	1381.0	1380.5	1375.2	1367.7	1363.5
7.5°	1365.6	1366.7	1365.1	1354.5	1348.6
10°	1350.8	1351.3	1347.0	1338.5	1331.6
12.5°	1331.6	1331.1	1325.3	1321.0	1309.9
15°	1301.4	1304.5	1301.4	1295.5	1286.5
17.5°	1272.1	1272.1	1274.3	1264.2	1257.3
20°	1239.2	1240.8	1240.8	1232.8	1224.9
22.5°	1201.0	1205.7	1207.3	1198.8	1189.3
25°	1155.8	1164.8	1170.2	1161.7	1151.6
27.5°	1101.1	1114.9	1130.8	1124.5	1113.3
30°	1040.0	1060.2	1086.8	1081.4	1073.5
32.5°	982.1	1002.3	1039.0	1036.8	1032.6
35°	929.5	942.3	985.3	990.6	986.9
37.5°	879.6	891.3	931.7	943.9	940.7
40°	827.0	839.8	871.6	893.4	894.5
42.5°	775.0	787.2	813.2	844.6	844.6
45°	719.7	731.9	755.8	790.4	794.6
47.5°	665.5	678.3	701.7	736.2	743.1
50°	612.4	624.1	647.5	681.0	691.6
52.5°	557.2	569.9	592.8	623.6	639.0
55°	504.1	512.6	537.5	567.3	583.7
57.5°	448.8	456.8	485.0	510.4	527.4
60°	395.7	405.8	427.6	453.6	473.3
62.5°	344.7	355.3	373.9	396.8	419.1
65°	295.3	303.3	321.4	344.2	363.8
67.5°	247.5	254.4	272.5	288.4	309.1
70°	199.2	208.2	221.5	236.9	250.2
72.5°	160.4	164.1	175.3	186.4	200.2
75°	118.4	124.8	133.9	140.2	148.2
77.5°	85.0	88.7	94.0	99.3	106.8
80°	56.8	58.4	63.2	64.3	70.1
82.5°	34.5	35.6	36.7	37.2	39.3
85°	18.6	18.6	18.6	17.5	17.5
87.5°	10.6	10.6	9.0	7.4	5.3
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)