

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: P555741

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-82-96-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: P555741  
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-35-UNV-82-96-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDES  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

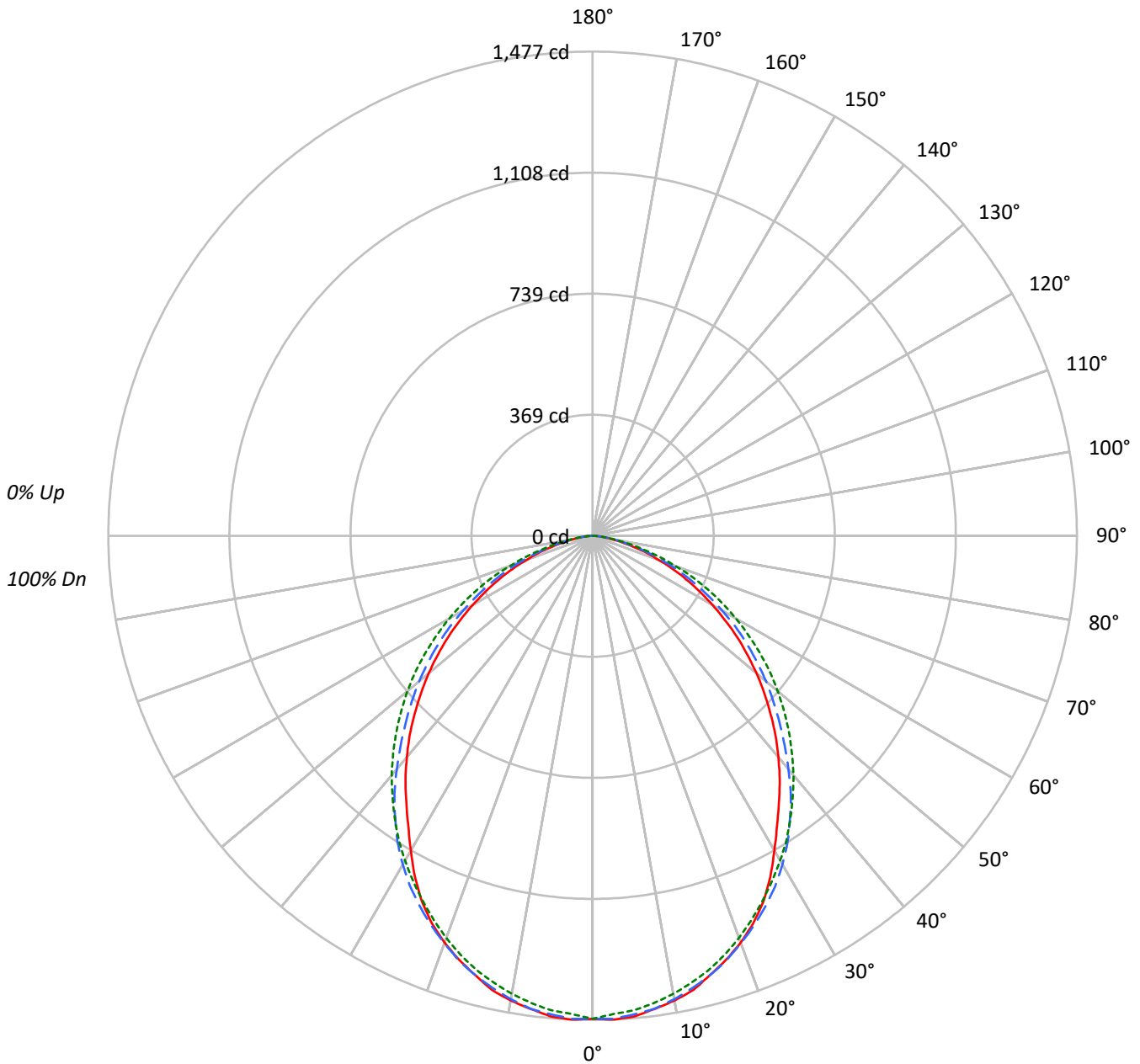
Lumens per Lamp: N/A  
Luminaire Lumens: 3407.0 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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									
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°	7930	7930	7930
5°	7951	7917	7850
10°	7867	7845	7755
15°	7727	7727	7639
20°	7564	7573	7476
25°	7314	7405	7288
30°	6888	7197	7109
35°	6508	6899	6910
40°	6192	6526	6697
45°	5838	6131	6445
50°	5465	5777	6171
55°	5041	5375	5837
60°	4539	4905	5429
65°	4008	4362	4937
70°	3341	3714	4195
75°	2624	2965	3283
80°	1878	2089	2315
85°	1223	1223	1155



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.7	4.1
10°-20°	389.7	11.4
20°-30°	569.5	16.7
30°-40°	646.5	19.0
40°-50°	624.1	18.3
50°-60°	514.8	15.1
60°-70°	342.8	10.1
70°-80°	153.4	4.5
80°-90°	27.4	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°	1098.0	32.2
0°-40°	1744.4	51.2
0°-60°	2883.3	84.6
0°-90°	3407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3407.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1472	1471	1466	1458	1453	139
15°	1387	1390	1387	1381	1371	391
25°	1232	1241	1247	1238	1227	564
35°	991	1004	1050	1056	1052	621
45°	767	780	806	842	847	592
55°	537	546	573	604	622	479
65°	315	323	342	367	388	312
75°	126	133	143	149	158	138
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1473.4	1473.4	1473.4	1473.4	1473.4
2.5°	1477.4	1478.0	1474.6	1465.5	1459.9
5°	1471.7	1471.2	1465.5	1457.6	1453.1
7.5°	1455.3	1456.5	1454.8	1443.4	1437.2
10°	1439.5	1440.0	1435.5	1426.5	1419.1
12.5°	1419.1	1418.5	1412.3	1407.8	1395.9
15°	1386.8	1390.2	1386.8	1380.6	1371.0
17.5°	1355.7	1355.7	1358.0	1347.2	1339.9
20°	1320.6	1322.3	1322.3	1313.8	1305.3
22.5°	1279.8	1284.9	1286.6	1277.6	1267.4
25°	1231.7	1241.4	1247.0	1238.0	1227.2
27.5°	1173.4	1188.1	1205.1	1198.3	1186.4
30°	1108.3	1129.8	1158.1	1152.5	1144.0
32.5°	1046.6	1068.1	1107.2	1104.9	1100.4
35°	990.6	1004.2	1050.0	1055.7	1051.7
37.5°	937.4	949.8	992.9	1005.9	1002.5
40°	881.3	894.9	928.9	952.1	953.2
42.5°	825.9	838.9	866.6	900.0	900.0
45°	767.0	780.0	805.5	842.3	846.8
47.5°	709.3	722.9	747.8	784.6	791.9
50°	652.7	665.1	690.0	725.7	737.0
52.5°	593.8	607.4	631.7	664.5	681.0
55°	537.2	546.2	572.8	604.5	622.1
57.5°	478.3	486.8	516.8	544.0	562.1
60°	421.7	432.5	455.7	483.4	504.4
62.5°	367.4	378.7	398.5	422.8	446.6
65°	314.7	323.2	342.5	366.8	387.7
67.5°	263.8	271.1	290.4	307.4	329.4
70°	212.3	221.9	236.0	252.5	266.6
72.5°	170.9	174.9	186.8	198.7	213.4
75°	126.2	133.0	142.6	149.4	157.9
77.5°	90.6	94.5	100.2	105.9	113.8
80°	60.6	62.3	67.4	68.5	74.7
82.5°	36.8	37.9	39.1	39.6	41.9
85°	19.8	19.8	19.8	18.7	18.7
87.5°	11.3	11.3	9.6	7.9	5.7
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)