

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: P555634

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-80-85-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: P555634  
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-30-UNV-80-85-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

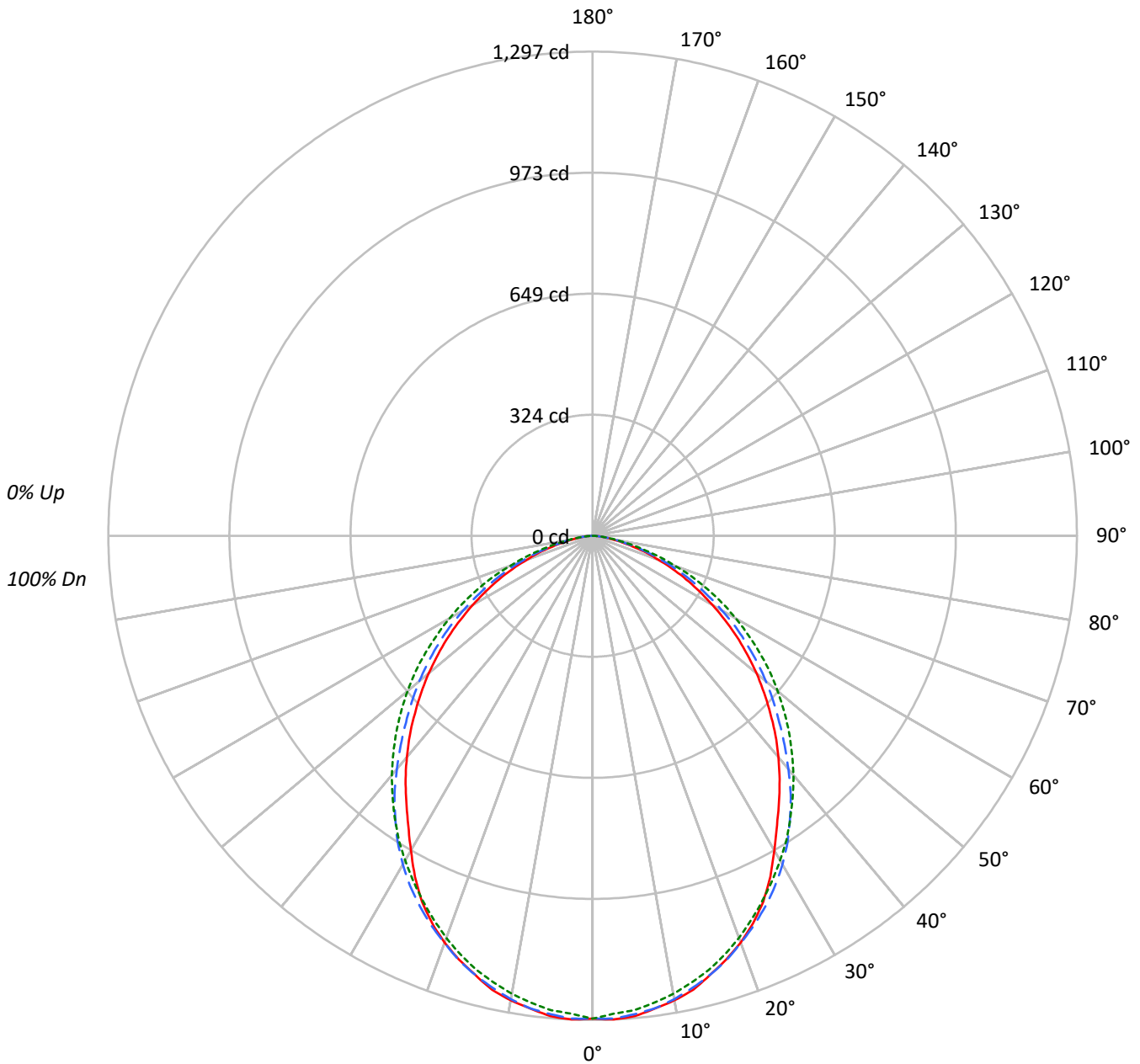
Lumens per Lamp: N/A  
Luminaire Lumens: 2991.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	6962	6962	6962
5°	6980	6951	6891
10°	6906	6887	6808
15°	6784	6784	6706
20°	6640	6648	6563
25°	6421	6501	6398
30°	6047	6318	6241
35°	5713	6056	6066
40°	5436	5729	5879
45°	5125	5382	5658
50°	4798	5072	5417
55°	4425	4719	5124
60°	3985	4306	4766
65°	3519	3828	4335
70°	2933	3260	3684
75°	2304	2603	2882
80°	1649	1832	2033
85°	1074	1074	1013



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.8	4.1
10°-20°	342.1	11.4
20°-30°	500.0	16.7
30°-40°	567.5	19.0
40°-50°	547.9	18.3
50°-60°	452.0	15.1
60°-70°	301.0	10.1
70°-80°	134.7	4.5
80°-90°	24.1	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°	963.9	32.2
0°-40°	1531.4	51.2
0°-60°	2531.3	84.6
0°-90°	2991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2991.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1292	1292	1287	1280	1276	122
15°	1218	1220	1218	1212	1204	343
25°	1081	1090	1095	1087	1077	495
35°	870	882	922	927	923	545
45°	673	685	707	739	743	520
55°	472	480	503	531	546	421
65°	276	284	301	322	340	274
75°	111	117	125	131	139	121
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1293.5	1293.5	1293.5	1293.5	1293.5
2.5°	1297.0	1297.5	1294.5	1286.6	1281.6
5°	1292.0	1291.5	1286.6	1279.6	1275.6
7.5°	1277.6	1278.6	1277.1	1267.2	1261.7
10°	1263.7	1264.2	1260.2	1252.3	1245.8
12.5°	1245.8	1245.3	1239.9	1235.9	1225.4
15°	1217.5	1220.5	1217.5	1212.0	1203.6
17.5°	1190.2	1190.2	1192.2	1182.7	1176.3
20°	1159.4	1160.8	1160.8	1153.4	1145.9
22.5°	1123.6	1128.0	1129.5	1121.6	1112.6
25°	1081.3	1089.8	1094.8	1086.8	1077.4
27.5°	1030.2	1043.1	1058.0	1052.0	1041.6
30°	973.0	991.9	1016.7	1011.8	1004.3
32.5°	918.8	937.7	972.0	970.0	966.0
35°	869.6	881.6	921.8	926.8	923.3
37.5°	822.9	833.9	871.6	883.1	880.1
40°	773.7	785.7	815.5	835.9	836.8
42.5°	725.0	736.5	760.8	790.1	790.1
45°	673.4	684.8	707.1	739.4	743.4
47.5°	622.7	634.6	656.5	688.8	695.2
50°	573.0	583.9	605.8	637.1	647.0
52.5°	521.3	533.2	554.6	583.4	597.8
55°	471.6	479.5	502.9	530.7	546.1
57.5°	419.9	427.4	453.7	477.6	493.5
60°	370.2	379.7	400.0	424.4	442.8
62.5°	322.5	332.5	349.8	371.2	392.1
65°	276.3	283.8	300.6	322.0	340.4
67.5°	231.6	238.0	254.9	269.8	289.2
70°	186.4	194.8	207.2	221.6	234.1
72.5°	150.1	153.6	164.0	174.4	187.3
75°	110.8	116.8	125.2	131.2	138.6
77.5°	79.5	83.0	88.0	92.9	99.9
80°	53.2	54.7	59.1	60.1	65.6
82.5°	32.3	33.3	34.3	34.8	36.8
85°	17.4	17.4	17.4	16.4	16.4
87.5°	9.9	9.9	8.4	7.0	5.0
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)