

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: P555324

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-80-96-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: P555324  
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-50-UNV-80-96-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

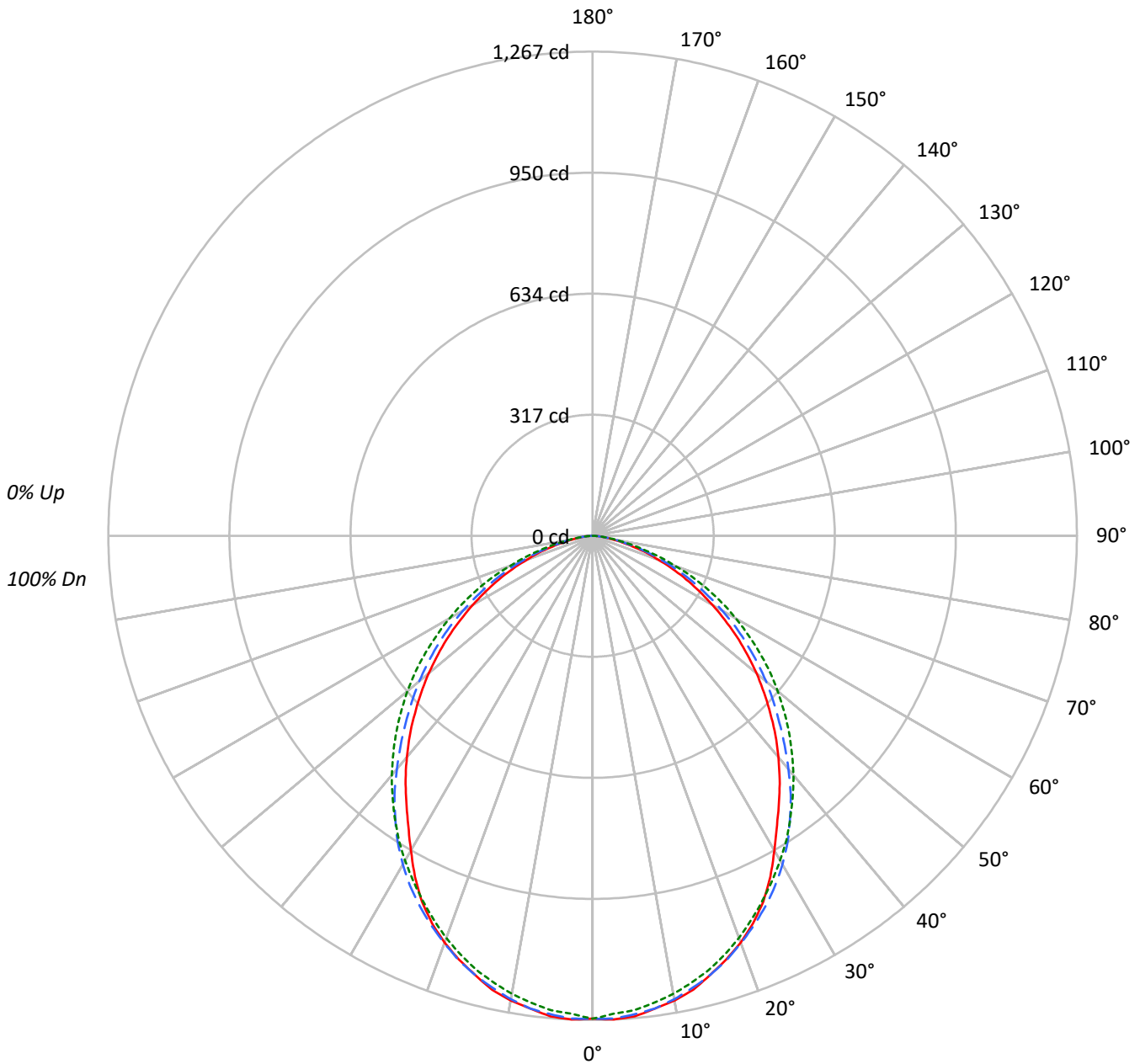
Lumens per Lamp: N/A  
Luminaire Lumens: 2922.0 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (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°	6801	6801	6801
5°	6819	6790	6733
10°	6747	6728	6651
15°	6627	6627	6551
20°	6487	6495	6412
25°	6273	6351	6250
30°	5908	6173	6097
35°	5582	5917	5926
40°	5311	5597	5743
45°	5007	5258	5528
50°	4687	4955	5292
55°	4323	4610	5006
60°	3893	4207	4656
65°	3437	3740	4234
70°	2865	3185	3599
75°	2252	2543	2816
80°	1609	1791	1987
85°	1050	1050	988



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.0	4.1
10°-20°	334.3	11.4
20°-30°	488.4	16.7
30°-40°	554.4	19.0
40°-50°	535.2	18.3
50°-60°	441.5	15.1
60°-70°	294.0	10.1
70°-80°	131.6	4.5
80°-90°	23.5	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°	941.7	32.2
0°-40°	1496.1	51.2
0°-60°	2472.9	84.6
0°-90°	2922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2922.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1262	1262	1257	1250	1246	119
15°	1189	1192	1189	1184	1176	335
25°	1056	1065	1070	1062	1052	484
35°	850	861	901	905	902	532
45°	658	669	691	722	726	508
55°	461	468	491	518	534	411
65°	270	277	294	315	332	268
75°	108	114	122	128	135	118
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°	1263.7	1263.7	1263.7	1263.7	1263.7
2.5°	1267.1	1267.6	1264.7	1256.9	1252.0
5°	1262.2	1261.7	1256.9	1250.1	1246.2
7.5°	1248.2	1249.1	1247.7	1238.0	1232.6
10°	1234.6	1235.0	1231.2	1223.4	1217.1
12.5°	1217.1	1216.6	1211.3	1207.4	1197.2
15°	1189.4	1192.3	1189.4	1184.1	1175.8
17.5°	1162.7	1162.7	1164.7	1155.4	1149.1
20°	1132.6	1134.1	1134.1	1126.8	1119.5
22.5°	1097.7	1102.0	1103.5	1095.7	1087.0
25°	1056.4	1064.6	1069.5	1061.7	1052.5
27.5°	1006.4	1019.0	1033.6	1027.7	1017.6
30°	950.6	969.0	993.3	988.4	981.1
32.5°	897.6	916.1	949.6	947.6	943.8
35°	849.6	861.2	900.6	905.4	902.0
37.5°	803.9	814.6	851.5	862.7	859.8
40°	755.9	767.5	796.7	816.6	817.5
42.5°	708.3	719.5	743.3	771.9	771.9
45°	657.8	669.0	690.8	722.4	726.3
47.5°	608.3	620.0	641.3	672.9	679.2
50°	559.8	570.4	591.8	622.4	632.1
52.5°	509.3	520.9	541.8	569.9	584.0
55°	460.7	468.5	491.3	518.5	533.5
57.5°	410.2	417.5	443.2	466.5	482.1
60°	361.7	370.9	390.8	414.6	432.6
62.5°	315.1	324.8	341.8	362.6	383.0
65°	269.9	277.2	293.7	314.6	332.5
67.5°	226.2	232.5	249.0	263.6	282.5
70°	182.1	190.3	202.4	216.5	228.7
72.5°	146.6	150.0	160.2	170.4	183.0
75°	108.3	114.1	122.3	128.2	135.4
77.5°	77.7	81.1	85.9	90.8	97.6
80°	51.9	53.4	57.8	58.7	64.1
82.5°	31.6	32.5	33.5	34.0	35.9
85°	17.0	17.0	17.0	16.0	16.0
87.5°	9.7	9.7	8.3	6.8	4.9
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)