

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: P555357

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-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: P555357  
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-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 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

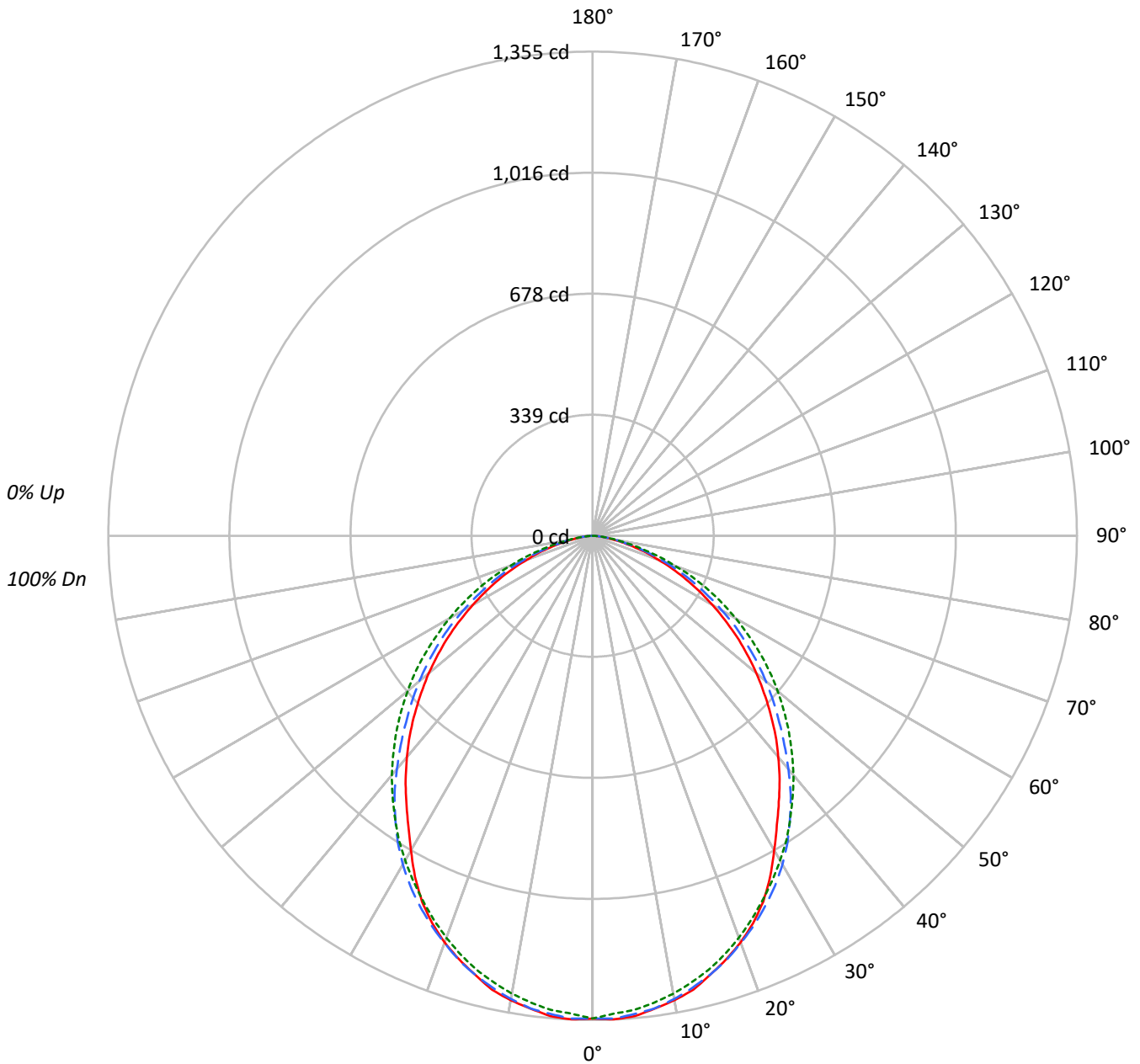
Lumens per Lamp: N/A  
Luminaire Lumens: 3124.0 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	7271	7271	7271
5°	7291	7260	7198
10°	7213	7194	7111
15°	7085	7085	7004
20°	6935	6944	6855
25°	6707	6790	6682
30°	6316	6599	6519
35°	5968	6326	6336
40°	5677	5984	6141
45°	5353	5622	5910
50°	5010	5297	5658
55°	4622	4929	5352
60°	4162	4497	4978
65°	3675	3999	4527
70°	3062	3405	3847
75°	2406	2720	3011
80°	1720	1915	2123
85°	1124	1124	1056



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.2	4.1
10°-20°	357.4	11.4
20°-30°	522.2	16.7
30°-40°	592.8	19.0
40°-50°	572.2	18.3
50°-60°	472.1	15.1
60°-70°	314.3	10.1
70°-80°	140.7	4.5
80°-90°	25.2	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°	1006.8	32.2
0°-40°	1599.5	51.2
0°-60°	2643.8	84.6
0°-90°	3124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3124.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1350	1349	1344	1336	1332	128
15°	1272	1275	1272	1266	1257	358
25°	1129	1138	1143	1135	1125	517
35°	908	921	963	968	964	569
45°	703	715	739	772	776	543
55°	493	501	525	554	570	440
65°	289	296	314	336	356	286
75°	116	122	131	137	145	127
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1351.0	1351.0	1351.0	1351.0	1351.0
2.5°	1354.7	1355.2	1352.1	1343.8	1338.6
5°	1349.5	1349.0	1343.8	1336.5	1332.4
7.5°	1334.4	1335.5	1333.9	1323.5	1317.8
10°	1319.9	1320.4	1316.3	1308.0	1301.2
12.5°	1301.2	1300.7	1295.0	1290.8	1279.9
15°	1271.6	1274.8	1271.6	1265.9	1257.1
17.5°	1243.1	1243.1	1245.2	1235.3	1228.6
20°	1210.9	1212.5	1212.5	1204.7	1196.9
22.5°	1173.5	1178.2	1179.8	1171.5	1162.1
25°	1129.4	1138.2	1143.4	1135.1	1125.3
27.5°	1076.0	1089.5	1105.0	1098.8	1087.9
30°	1016.3	1036.0	1061.9	1056.8	1049.0
32.5°	959.7	979.4	1015.2	1013.2	1009.0
35°	908.3	920.8	962.8	968.0	964.4
37.5°	859.5	870.9	910.4	922.3	919.2
40°	808.1	820.6	851.7	873.0	874.1
42.5°	757.3	769.2	794.6	825.3	825.3
45°	703.3	715.2	738.6	772.3	776.5
47.5°	650.4	662.8	685.6	719.4	726.1
50°	598.4	609.9	632.7	665.4	675.8
52.5°	544.5	556.9	579.2	609.3	624.4
55°	492.6	500.9	525.3	554.3	570.4
57.5°	438.6	446.4	473.9	498.8	515.4
60°	386.7	396.5	417.8	443.3	462.5
62.5°	336.9	347.2	365.4	387.7	409.5
65°	288.6	296.4	314.0	336.3	355.5
67.5°	241.9	248.6	266.3	281.8	302.1
70°	194.6	203.5	216.4	231.5	244.5
72.5°	156.7	160.4	171.3	182.2	195.7
75°	115.7	122.0	130.8	137.0	144.8
77.5°	83.0	86.7	91.9	97.1	104.3
80°	55.5	57.1	61.8	62.8	68.5
82.5°	33.7	34.8	35.8	36.3	38.4
85°	18.2	18.2	18.2	17.1	17.1
87.5°	10.4	10.4	8.8	7.3	5.2
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)