

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: P555753

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-93-88-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: P555753  
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-93-88-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE  
AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

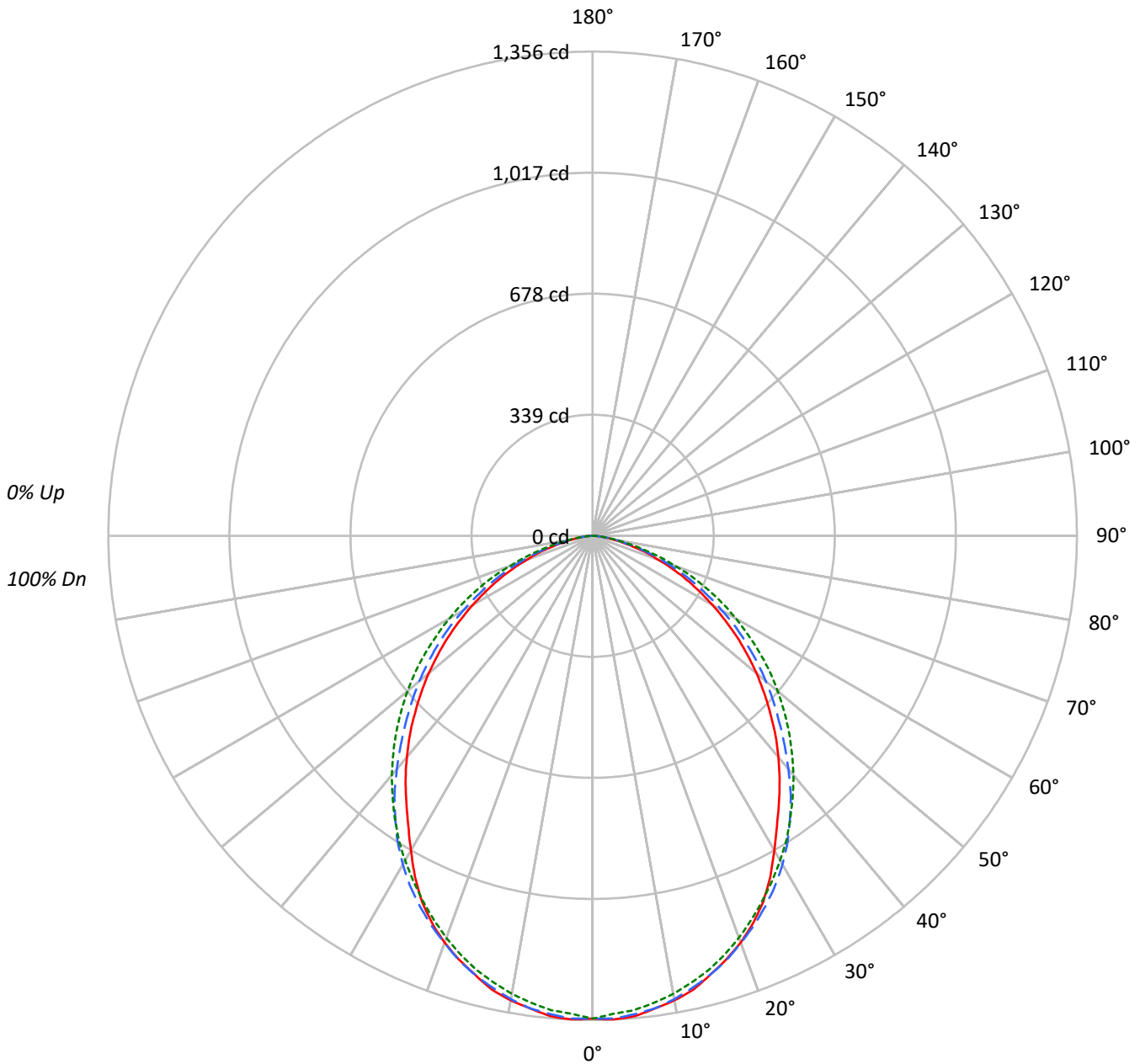
Lumens per Lamp: N/A  
Luminaire Lumens: 3127.0 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	7278	7278	7278
5°	7298	7267	7205
10°	7220	7200	7118
15°	7092	7092	7011
20°	6942	6951	6861
25°	6713	6796	6688
30°	6321	6606	6525
35°	5974	6332	6342
40°	5683	5990	6147
45°	5358	5627	5915
50°	5015	5303	5663
55°	4626	4934	5358
60°	4167	4501	4983
65°	3679	4003	4532
70°	3065	3408	3851
75°	2410	2722	3013
80°	1723	1915	2126
85°	1124	1124	1056



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.3	4.1
10°-20°	357.7	11.4
20°-30°	522.7	16.7
30°-40°	593.3	19.0
40°-50°	572.8	18.3
50°-60°	472.5	15.1
60°-70°	314.7	10.1
70°-80°	140.8	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°	1007.7	32.2
0°-40°	1601.1	51.2
0°-60°	2646.4	84.6
0°-90°	3127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3127.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1351	1350	1345	1338	1334	128
15°	1273	1276	1273	1267	1258	359
25°	1130	1139	1144	1136	1126	518
35°	909	922	964	969	965	570
45°	704	716	739	773	777	543
55°	493	501	526	555	571	440
65°	289	297	314	337	356	286
75°	116	122	131	137	145	127
85°	18	18	18	17	17	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1352.3	1352.3	1352.3	1352.3	1352.3
2.5°	1356.0	1356.5	1353.4	1345.1	1339.9
5°	1350.8	1350.3	1345.1	1337.8	1333.6
7.5°	1335.7	1336.8	1335.2	1324.8	1319.1
10°	1321.2	1321.7	1317.5	1309.2	1302.5
12.5°	1302.5	1302.0	1296.2	1292.1	1281.2
15°	1272.9	1276.0	1272.9	1267.1	1258.3
17.5°	1244.3	1244.3	1246.4	1236.5	1229.7
20°	1212.1	1213.6	1213.6	1205.8	1198.0
22.5°	1174.7	1179.3	1180.9	1172.6	1163.2
25°	1130.5	1139.3	1144.5	1136.2	1126.3
27.5°	1077.0	1090.5	1106.1	1099.9	1088.9
30°	1017.2	1037.0	1063.0	1057.8	1050.0
32.5°	960.6	980.4	1016.2	1014.1	1010.0
35°	909.2	921.7	963.7	968.9	965.3
37.5°	860.3	871.8	911.3	923.2	920.1
40°	808.9	821.4	852.6	873.9	874.9
42.5°	758.0	769.9	795.4	826.1	826.1
45°	704.0	715.9	739.3	773.1	777.2
47.5°	651.0	663.4	686.3	720.1	726.8
50°	599.0	610.5	633.3	666.0	676.4
52.5°	545.0	557.5	579.8	609.9	625.0
55°	493.0	501.4	525.8	554.9	571.0
57.5°	439.0	446.8	474.3	499.3	515.9
60°	387.1	396.9	418.2	443.7	462.9
62.5°	337.2	347.6	365.8	388.1	409.9
65°	288.9	296.7	314.3	336.7	355.9
67.5°	242.1	248.9	266.5	282.1	302.4
70°	194.8	203.7	216.6	231.7	244.7
72.5°	156.9	160.5	171.4	182.4	195.9
75°	115.9	122.1	130.9	137.2	144.9
77.5°	83.1	86.8	92.0	97.2	104.4
80°	55.6	57.1	61.8	62.9	68.6
82.5°	33.8	34.8	35.8	36.4	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)