

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: P554923

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-93-94-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: P554923  
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-LD4-2LO-30-UNV-93-94-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

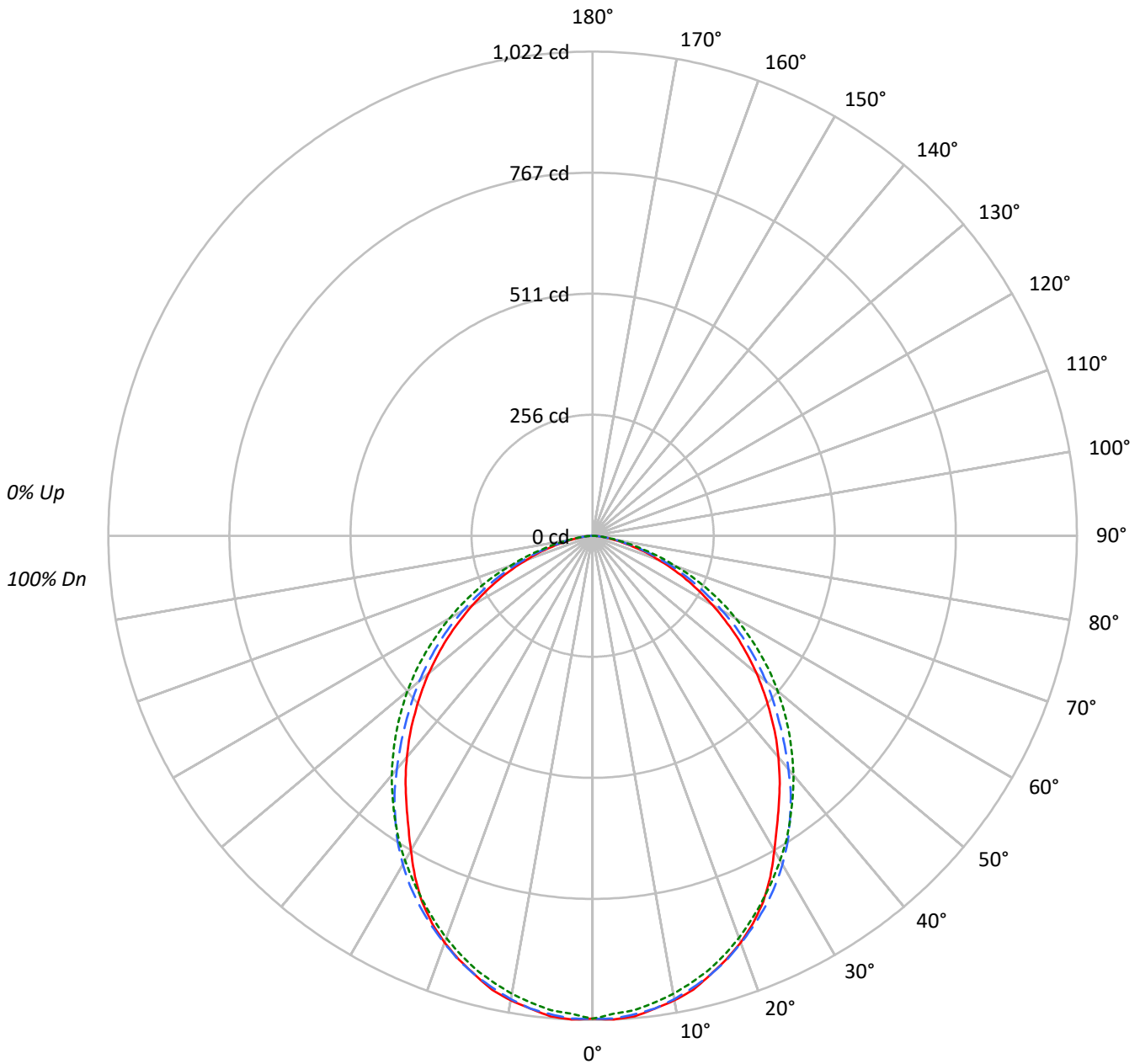
Lumens per Lamp: N/A  
Luminaire Lumens: 2357.0 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
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°	5486	5486	5486
5°	5501	5478	5431
10°	5442	5427	5365
15°	5346	5346	5285
20°	5233	5239	5172
25°	5060	5123	5042
30°	4765	4979	4918
35°	4503	4773	4780
40°	4284	4515	4633
45°	4039	4242	4459
50°	3780	3997	4269
55°	3487	3719	4039
60°	3140	3393	3756
65°	2772	3017	3415
70°	2312	2570	2902
75°	1815	2052	2273
80°	1299	1444	1602
85°	846	846	797



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	4.1
10°-20°	269.6	11.4
20°-30°	394.0	16.7
30°-40°	447.2	19.0
40°-50°	431.7	18.3
50°-60°	356.1	15.1
60°-70°	237.2	10.1
70°-80°	106.1	4.5
80°-90°	19.0	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°	759.6	32.2
0°-40°	1206.8	51.2
0°-60°	1994.7	84.6
0°-90°	2357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2357.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1018	1018	1014	1008	1005	96
15°	959	962	959	955	948	270
25°	852	859	863	856	849	390
35°	685	695	726	730	728	429
45°	531	540	557	583	586	409
55°	372	378	396	418	430	332
65°	218	224	237	254	268	216
75°	87	92	99	103	109	96
85°	14	14	14	13	13	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1019.3	1019.3	1019.3	1019.3	1019.3
2.5°	1022.1	1022.5	1020.1	1013.9	1009.9
5°	1018.2	1017.8	1013.9	1008.4	1005.2
7.5°	1006.8	1007.6	1006.4	998.6	994.3
10°	995.8	996.2	993.1	986.8	981.7
12.5°	981.7	981.4	977.0	973.9	965.7
15°	959.4	961.8	959.4	955.1	948.5
17.5°	937.9	937.9	939.5	932.0	926.9
20°	913.6	914.8	914.8	908.9	903.0
22.5°	885.4	888.9	890.1	883.8	876.8
25°	852.1	858.8	862.7	856.4	849.0
27.5°	811.8	822.0	833.7	829.0	820.8
30°	766.8	781.6	801.2	797.3	791.4
32.5°	724.1	739.0	766.0	764.4	761.3
35°	685.3	694.7	726.4	730.3	727.6
37.5°	648.5	657.1	686.9	695.9	693.5
40°	609.7	619.1	642.6	658.7	659.5
42.5°	571.3	580.4	599.5	622.6	622.6
45°	530.6	539.6	557.3	582.7	585.8
47.5°	490.7	500.1	517.3	542.8	547.9
50°	451.5	460.1	477.4	502.0	509.9
52.5°	410.8	420.2	437.0	459.7	471.1
55°	371.6	377.9	396.3	418.2	430.4
57.5°	330.9	336.8	357.5	376.3	388.9
60°	291.7	299.2	315.2	334.4	348.9
62.5°	254.2	262.0	275.7	292.5	309.0
65°	217.7	223.6	236.9	253.8	268.2
67.5°	182.5	187.6	200.9	212.6	227.9
70°	146.9	153.5	163.3	174.7	184.4
72.5°	118.3	121.0	129.2	137.5	147.6
75°	87.3	92.0	98.7	103.4	109.3
77.5°	62.7	65.4	69.3	73.2	78.7
80°	41.9	43.1	46.6	47.4	51.7
82.5°	25.5	26.2	27.0	27.4	29.0
85°	13.7	13.7	13.7	12.9	12.9
87.5°	7.8	7.8	6.7	5.5	3.9
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)