

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: P553903

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-93-97-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: P553903  
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-LD4-1HI-30-UNV-93-97-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

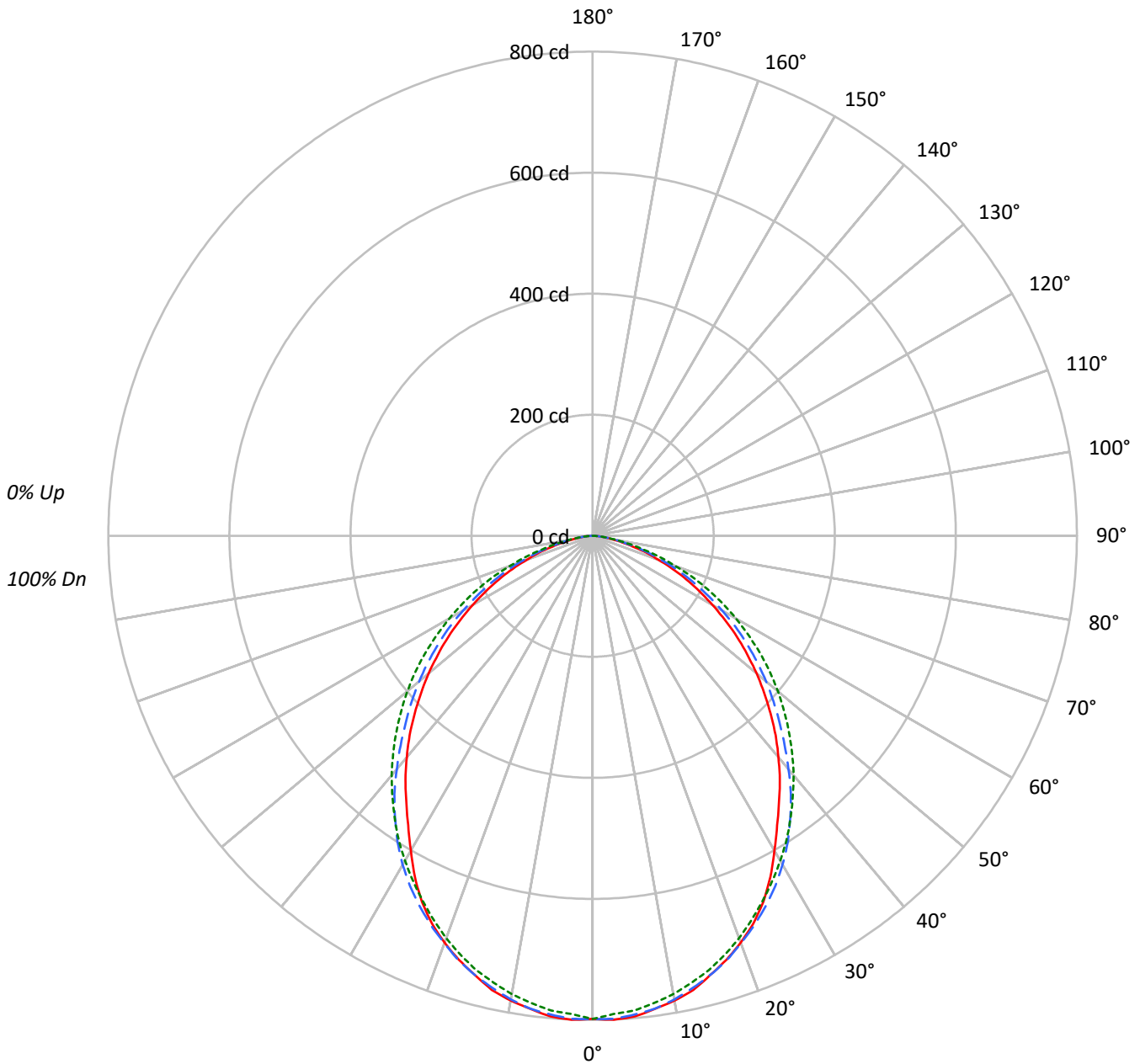
Lumens per Lamp: N/A  
Luminaire Lumens: 1846.0 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.6  
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°	4296	4296	4296
5°	4308	4290	4253
10°	4262	4251	4202
15°	4187	4187	4139
20°	4098	4104	4051
25°	3963	4013	3948
30°	3732	3900	3852
35°	3526	3738	3744
40°	3355	3536	3629
45°	3163	3322	3492
50°	2961	3131	3343
55°	2731	2913	3163
60°	2460	2658	2942
65°	2171	2364	2676
70°	1810	2013	2274
75°	1422	1607	1780
80°	1017	1131	1255
85°	661	661	624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.2	4.1
10°-20°	211.2	11.4
20°-30°	308.6	16.7
30°-40°	350.3	19.0
40°-50°	338.1	18.3
50°-60°	278.9	15.1
60°-70°	185.7	10.1
70°-80°	83.1	4.5
80°-90°	14.9	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°	594.9	32.2
0°-40°	945.2	51.2
0°-60°	1562.3	84.6
0°-90°	1846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1846.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	797	797	794	790	787	75
15°	751	753	751	748	743	212
25°	667	673	676	671	665	306
35°	537	544	569	572	570	336
45°	416	423	436	456	459	321
55°	291	296	310	328	337	260
65°	170	175	186	199	210	169
75°	68	72	77	81	86	75
85°	11	11	11	10	10	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	798.3	798.3	798.3	798.3	798.3
2.5°	800.5	800.8	799.0	794.1	791.0
5°	797.4	797.1	794.1	789.8	787.3
7.5°	788.5	789.1	788.2	782.1	778.7
10°	779.9	780.3	777.8	772.9	768.9
12.5°	768.9	768.6	765.2	762.8	756.3
15°	751.4	753.3	751.4	748.0	742.8
17.5°	734.6	734.6	735.8	730.0	726.0
20°	715.5	716.5	716.5	711.9	707.3
22.5°	693.5	696.2	697.1	692.2	686.7
25°	667.4	672.6	675.7	670.8	664.9
27.5°	635.8	643.8	653.0	649.3	642.8
30°	600.5	612.2	627.5	624.4	619.8
32.5°	567.1	578.7	599.9	598.7	596.2
35°	536.7	544.1	568.9	572.0	569.9
37.5°	507.9	514.6	538.0	545.0	543.2
40°	477.5	484.9	503.3	515.9	516.5
42.5°	447.5	454.5	469.6	487.7	487.7
45°	415.6	422.6	436.4	456.4	458.8
47.5°	384.3	391.7	405.2	425.1	429.1
50°	353.6	360.4	373.9	393.2	399.3
52.5°	321.7	329.1	342.3	360.1	369.0
55°	291.1	296.0	310.4	327.6	337.1
57.5°	259.2	263.8	280.0	294.7	304.6
60°	228.5	234.3	246.9	261.9	273.3
62.5°	199.1	205.2	215.9	229.1	242.0
65°	170.5	175.1	185.6	198.7	210.1
67.5°	142.9	146.9	157.3	166.5	178.5
70°	115.0	120.2	127.9	136.8	144.5
72.5°	92.6	94.8	101.2	107.7	115.6
75°	68.4	72.1	77.3	81.0	85.6
77.5°	49.1	51.2	54.3	57.4	61.6
80°	32.8	33.7	36.5	37.1	40.5
82.5°	19.9	20.5	21.2	21.5	22.7
85°	10.7	10.7	10.7	10.1	10.1
87.5°	6.1	6.1	5.2	4.3	3.1
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)