

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: P554365

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-80-96-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: P554365  
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-LD4-1STD-30-UNV-80-96-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND  
3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

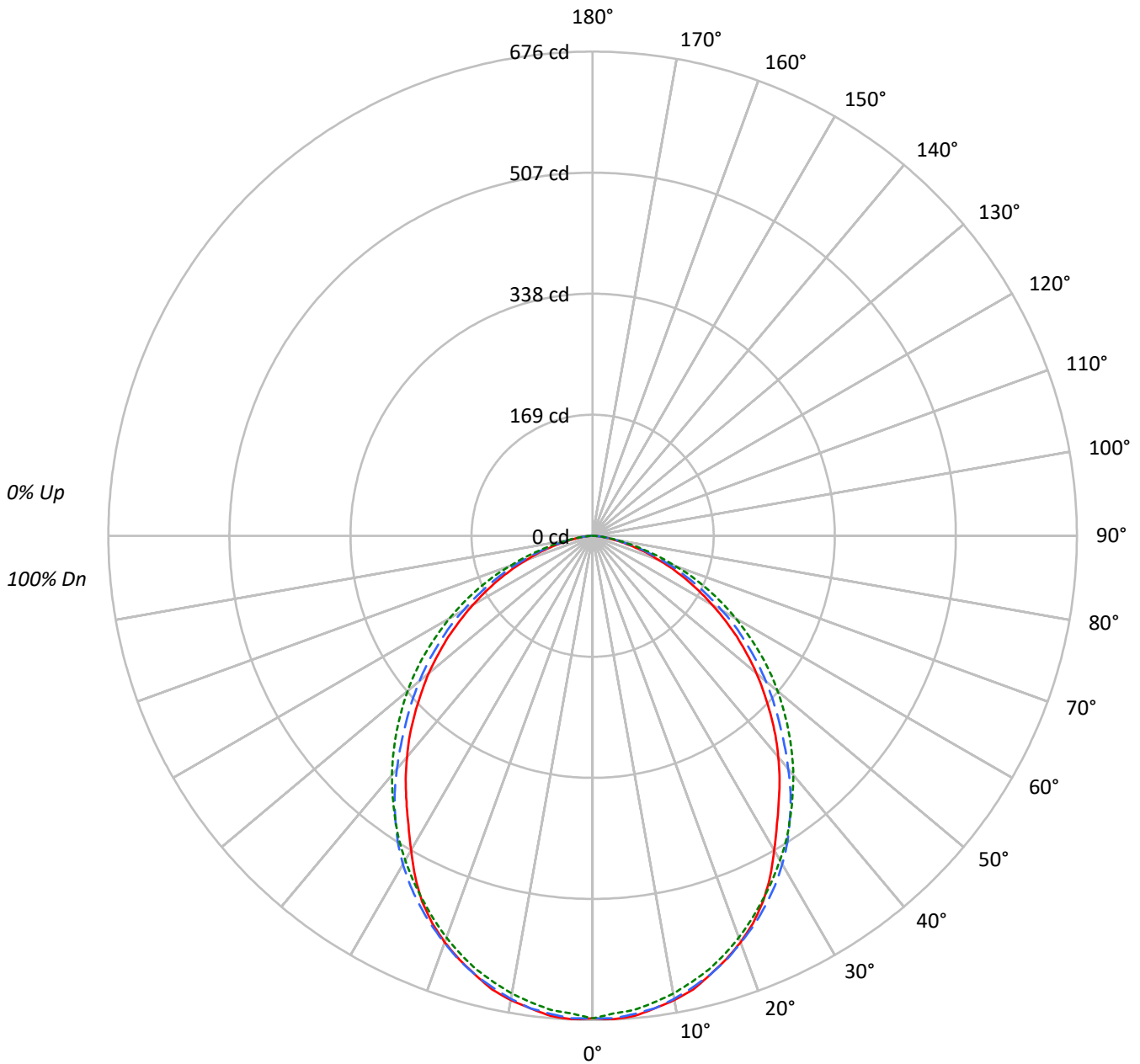
Lumens per Lamp: N/A  
Luminaire Lumens: 1558.0 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.6  
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°	3626	3626	3626
5°	3636	3621	3590
10°	3598	3588	3546
15°	3534	3534	3493
20°	3459	3463	3419
25°	3345	3387	3333
30°	3150	3291	3251
35°	2976	3155	3160
40°	2831	2984	3062
45°	2669	2803	2947
50°	2499	2642	2822
55°	2305	2458	2670
60°	2075	2243	2482
65°	1833	1994	2258
70°	1528	1698	1918
75°	1200	1356	1501
80°	859	955	1060
85°	562	562	525



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.4	4.1
10°-20°	178.2	11.4
20°-30°	260.4	16.7
30°-40°	295.6	19.0
40°-50°	285.4	18.3
50°-60°	235.4	15.1
60°-70°	156.8	10.1
70°-80°	70.1	4.5
80°-90°	12.6	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°	502.1	32.2
0°-40°	797.7	51.2
0°-60°	1318.5	84.6
0°-90°	1558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1558.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	674	674	674	674	674	
5°	673	673	670	666	664	64
15°	634	636	634	631	627	179
25°	563	568	570	566	561	258
35°	453	459	480	483	481	284
45°	351	357	368	385	387	271
55°	246	250	262	276	284	219
65°	144	148	157	168	177	143
75°	58	61	65	68	72	63
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	673.8	673.8	673.8	673.8	673.8
2.5°	675.6	675.9	674.3	670.2	667.6
5°	673.0	672.8	670.2	666.5	664.5
7.5°	665.5	666.0	665.3	660.1	657.2
10°	658.3	658.5	656.5	652.3	648.9
12.5°	648.9	648.7	645.8	643.8	638.3
15°	634.2	635.7	634.2	631.3	626.9
17.5°	620.0	620.0	621.0	616.1	612.7
20°	603.9	604.7	604.7	600.8	596.9
22.5°	585.3	587.6	588.4	584.2	579.6
25°	563.3	567.7	570.3	566.1	561.2
27.5°	536.6	543.3	551.1	548.0	542.6
30°	506.8	516.7	529.6	527.0	523.1
32.5°	478.6	488.5	506.3	505.3	503.2
35°	453.0	459.2	480.2	482.8	480.9
37.5°	428.7	434.4	454.0	460.0	458.4
40°	403.0	409.2	424.8	435.4	435.9
42.5°	377.7	383.6	396.3	411.6	411.6
45°	350.7	356.7	368.3	385.2	387.2
47.5°	324.3	330.6	341.9	358.8	362.1
50°	298.5	304.2	315.5	331.8	337.0
52.5°	271.5	277.7	288.9	303.9	311.4
55°	245.7	249.8	262.0	276.5	284.5
57.5°	218.7	222.6	236.3	248.8	257.0
60°	192.8	197.8	208.4	221.1	230.6
62.5°	168.0	173.2	182.2	193.4	204.2
65°	143.9	147.8	156.6	167.7	177.3
67.5°	120.6	124.0	132.8	140.6	150.7
70°	97.1	101.5	107.9	115.4	121.9
72.5°	78.2	80.0	85.4	90.9	97.6
75°	57.7	60.8	65.2	68.3	72.2
77.5°	41.4	43.2	45.8	48.4	52.0
80°	27.7	28.5	30.8	31.3	34.2
82.5°	16.8	17.3	17.9	18.1	19.2
85°	9.1	9.1	9.1	8.5	8.5
87.5°	5.2	5.2	4.4	3.6	2.6
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)