

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: P555198

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-80-97-EDD-90**

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: P555198  
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-35-UNV-80-97-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND  
3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

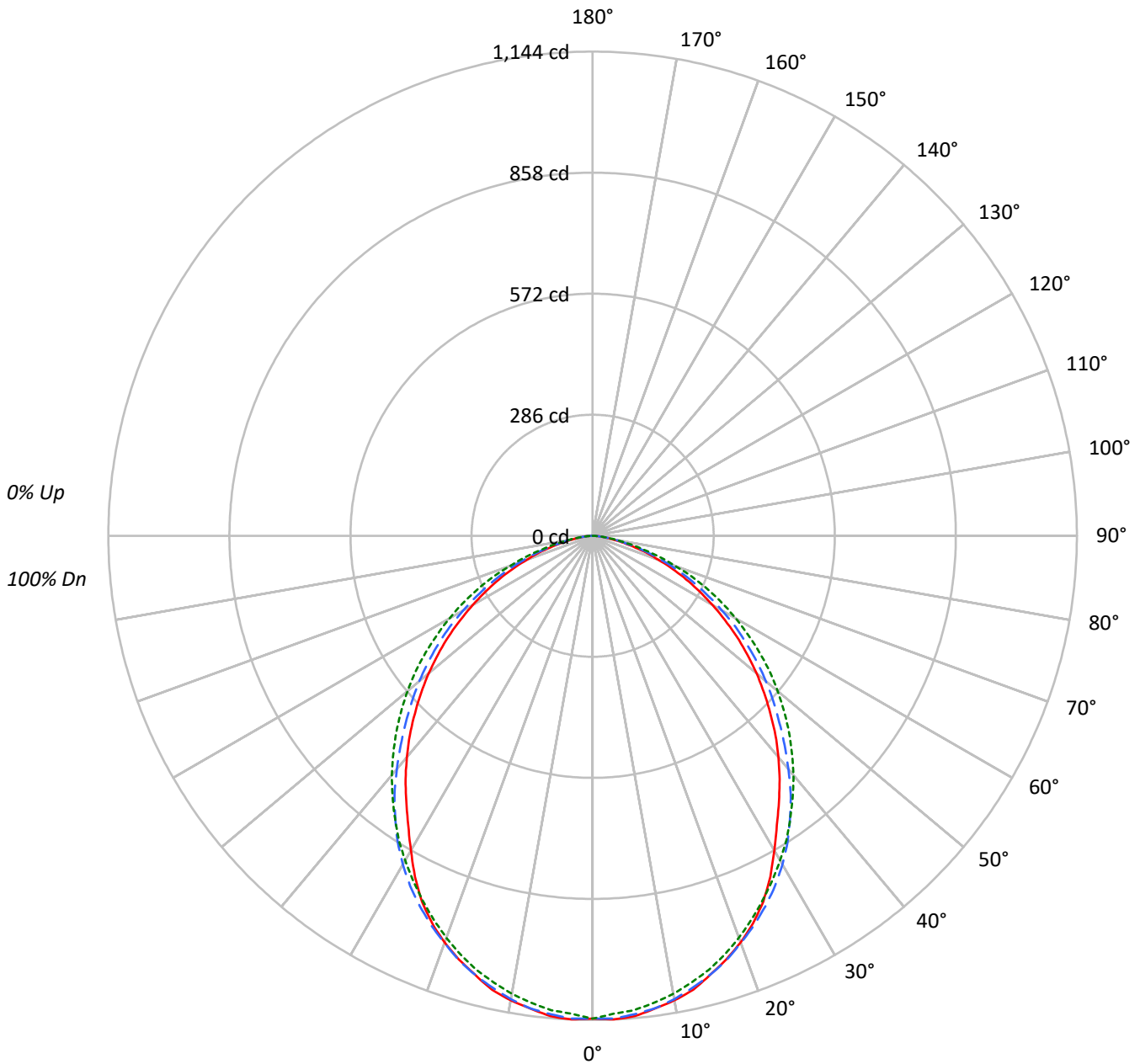
Lumens per Lamp: N/A  
Luminaire Lumens: 2638.0 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6140	6140	6140
5°	6157	6130	6078
10°	6091	6074	6005
15°	5983	5983	5914
20°	5856	5864	5789
25°	5663	5734	5643
30°	5333	5573	5505
35°	5039	5342	5350
40°	4794	5053	5186
45°	4520	4747	4991
50°	4231	4474	4778
55°	3902	4161	4520
60°	3514	3798	4203
65°	3103	3377	3823
70°	2587	2877	3248
75°	2032	2296	2543
80°	1454	1618	1795
85°	945	945	895



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.4	4.1
10°-20°	301.8	11.4
20°-30°	441.0	16.7
30°-40°	500.5	19.0
40°-50°	483.2	18.3
50°-60°	398.6	15.1
60°-70°	265.4	10.1
70°-80°	118.8	4.5
80°-90°	21.3	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°	850.1	32.2
0°-40°	1350.7	51.2
0°-60°	2232.5	84.6
0°-90°	2638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2638.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1141	1141	1141	1141	1141	
5°	1140	1139	1135	1129	1125	108
15°	1074	1076	1074	1069	1062	303
25°	954	961	966	958	950	437
35°	767	778	813	817	814	481
45°	594	604	624	652	656	458
55°	416	423	444	468	482	371
65°	244	250	265	284	300	242
75°	98	103	110	116	122	107
85°	15	15	15	14	14	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1140.9	1140.9	1140.9	1140.9	1140.9
2.5°	1143.9	1144.4	1141.7	1134.7	1130.3
5°	1139.6	1139.1	1134.7	1128.6	1125.1
7.5°	1126.8	1127.7	1126.4	1117.6	1112.8
10°	1114.6	1115.0	1111.5	1104.5	1098.8
12.5°	1098.8	1098.4	1093.5	1090.0	1080.8
15°	1073.8	1076.4	1073.8	1069.0	1061.5
17.5°	1049.7	1049.7	1051.5	1043.1	1037.4
20°	1022.5	1023.8	1023.8	1017.3	1010.7
22.5°	991.0	994.9	996.2	989.2	981.3
25°	953.7	961.2	965.6	958.5	950.2
27.5°	908.6	920.0	933.1	927.9	918.7
30°	858.2	874.8	896.7	892.4	885.8
32.5°	810.4	827.1	857.3	855.5	852.0
35°	767.0	777.5	813.0	817.4	814.3
37.5°	725.8	735.4	768.8	778.8	776.2
40°	682.4	692.9	719.2	737.2	738.1
42.5°	639.5	649.5	671.0	696.9	696.9
45°	593.9	604.0	623.7	652.2	655.7
47.5°	549.2	559.7	579.0	607.5	613.2
50°	505.3	515.0	534.3	561.9	570.7
52.5°	459.8	470.3	489.1	514.6	527.3
55°	415.9	422.9	443.5	468.1	481.7
57.5°	370.4	376.9	400.2	421.2	435.2
60°	326.5	334.9	352.8	374.3	390.5
62.5°	284.4	293.2	308.6	327.4	345.8
65°	243.7	250.3	265.2	284.0	300.2
67.5°	204.2	209.9	224.8	238.0	255.1
70°	164.4	171.8	182.8	195.5	206.4
72.5°	132.4	135.4	144.6	153.8	165.2
75°	97.7	103.0	110.4	115.7	122.3
77.5°	70.1	73.2	77.6	82.0	88.1
80°	46.9	48.2	52.2	53.0	57.9
82.5°	28.5	29.4	30.2	30.7	32.4
85°	15.3	15.3	15.3	14.5	14.5
87.5°	8.8	8.8	7.5	6.1	4.4
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)