

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: P555439

Luminaire Tested: **FUSL-12-2-LD4-3HI-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: P555439  
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-LD4-3HI-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**

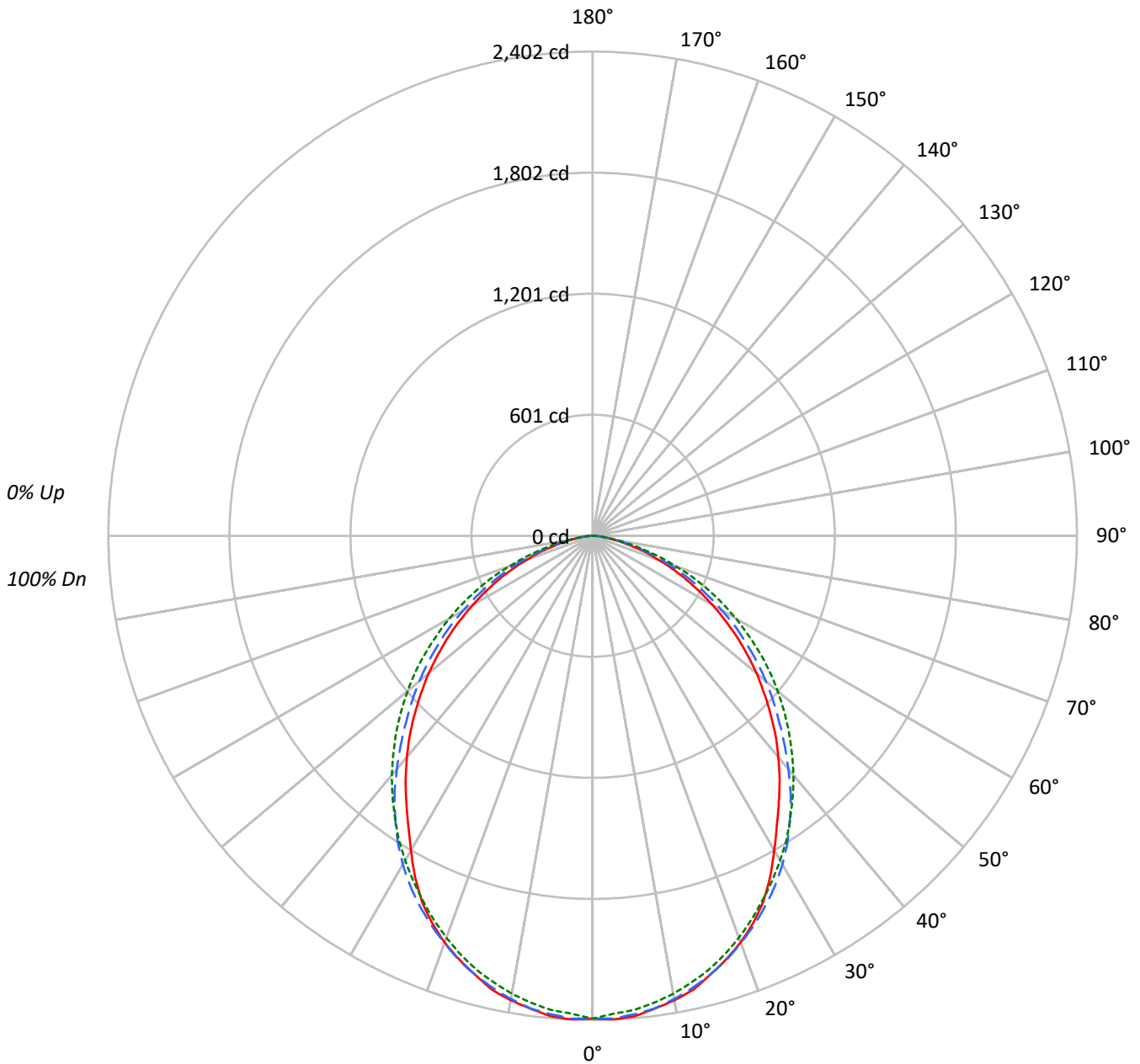
Lumens per Lamp: N/A  
Luminaire Lumens: 5538.0 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.8  
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°	12890	12890	12890
5°	12924	12870	12760
10°	12787	12752	12606
15°	12561	12561	12417
20°	12294	12310	12152
25°	11890	12037	11846
30°	11196	11699	11556
35°	10579	11214	11232
40°	10065	10608	10886
45°	9489	9965	10477
50°	8883	9391	10031
55°	8193	8737	9488
60°	7379	7973	8824
65°	6515	7089	8027
70°	5429	6038	6820
75°	4267	4822	5338
80°	3053	3394	3766
85°	1988	1988	1877



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.5	4.1
10°-20°	633.5	11.4
20°-30°	925.7	16.7
30°-40°	1050.8	19.0
40°-50°	1014.4	18.3
50°-60°	836.8	15.1
60°-70°	557.3	10.1
70°-80°	249.4	4.5
80°-90°	44.6	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°	1784.7	32.2
0°-40°	2835.6	51.2
0°-60°	4686.8	84.6
0°-90°	5538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5538.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2395	2395	2395	2395	2395	
5°	2392	2391	2382	2369	2362	226
15°	2254	2260	2254	2244	2228	635
25°	2002	2018	2027	2012	1995	917
35°	1610	1632	1707	1716	1710	1009
45°	1247	1268	1309	1369	1376	962
55°	873	888	931	983	1011	779
65°	512	525	557	596	630	507
75°	205	216	232	243	257	224
85°	32	32	32	30	30	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2395.0	2395.0	2395.0	2395.0	2395.0
2.5°	2401.5	2402.4	2396.9	2382.2	2373.0
5°	2392.3	2391.4	2382.2	2369.3	2361.9
7.5°	2365.6	2367.4	2364.7	2346.3	2336.2
10°	2339.8	2340.8	2333.4	2318.7	2306.7
12.5°	2306.7	2305.8	2295.7	2288.3	2269.0
15°	2254.3	2259.8	2254.3	2244.1	2228.5
17.5°	2203.7	2203.7	2207.3	2189.9	2177.9
20°	2146.6	2149.4	2149.4	2135.6	2121.8
22.5°	2080.4	2088.6	2091.4	2076.7	2060.1
25°	2002.2	2017.8	2027.0	2012.3	1994.8
27.5°	1907.4	1931.3	1958.9	1947.9	1928.5
30°	1801.6	1836.5	1882.5	1873.3	1859.5
32.5°	1701.3	1736.2	1799.7	1796.1	1788.7
35°	1610.2	1632.3	1706.8	1716.0	1709.6
37.5°	1523.7	1543.9	1613.9	1635.0	1629.5
40°	1432.6	1454.7	1509.9	1547.6	1549.5
42.5°	1342.4	1363.6	1408.7	1463.0	1463.0
45°	1246.7	1267.9	1309.3	1369.1	1376.5
47.5°	1152.9	1175.0	1215.5	1275.3	1287.2
50°	1060.9	1081.1	1121.6	1179.6	1198.0
52.5°	965.2	987.3	1026.8	1080.2	1106.9
55°	873.2	887.9	931.1	982.7	1011.2
57.5°	777.5	791.3	840.1	884.2	913.7
60°	685.5	703.0	740.7	785.8	819.8
62.5°	597.2	615.6	647.8	687.3	726.0
65°	511.6	525.4	556.7	596.2	630.3
67.5°	428.8	440.7	472.0	499.6	535.5
70°	345.0	360.7	383.7	410.4	433.4
72.5°	277.9	284.3	303.6	323.0	346.9
75°	205.2	216.2	231.9	242.9	256.7
77.5°	147.2	153.7	162.9	172.1	184.9
80°	98.5	101.2	109.5	111.3	121.5
82.5°	59.8	61.6	63.5	64.4	68.1
85°	32.2	32.2	32.2	30.4	30.4
87.5°	18.4	18.4	15.6	12.9	9.2
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)