

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: P555435

Luminaire Tested: **FUSL-12-2-LD4-3HI-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: P555435  
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-93-94-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**

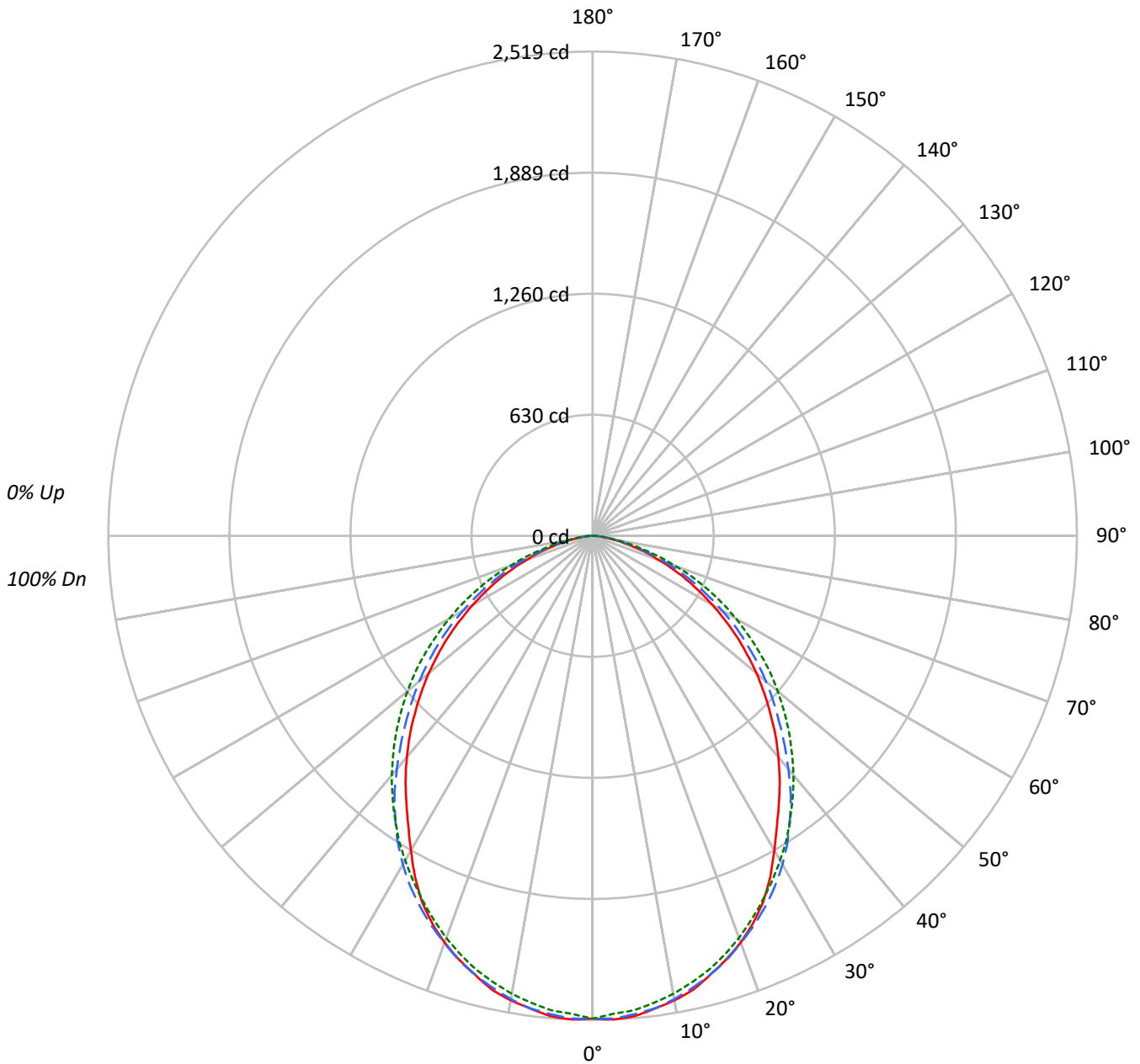
Lumens per Lamp: N/A  
Luminaire Lumens: 5809.0 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.8  
Input Voltage (V): NR  
Input Current (Ain): 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°	13521	13521	13521
5°	13557	13499	13385
10°	13413	13376	13223
15°	13175	13175	13025
20°	12896	12913	12747
25°	12471	12626	12425
30°	11744	12272	12121
35°	11097	11763	11782
40°	10557	11127	11419
45°	9954	10453	10989
50°	9317	9851	10521
55°	8594	9165	9953
60°	7739	8362	9256
65°	6833	7436	8419
70°	5695	6334	7153
75°	4475	5057	5600
80°	3202	3561	3949
85°	2087	2087	1964



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.5	4.1
10°-20°	664.5	11.4
20°-30°	971.0	16.7
30°-40°	1102.2	19.0
40°-50°	1064.0	18.3
50°-60°	877.8	15.1
60°-70°	584.5	10.1
70°-80°	261.6	4.5
80°-90°	46.8	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°	1872.1	32.2
0°-40°	2974.3	51.2
0°-60°	4916.1	84.6
0°-90°	5809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5809.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2512	2512	2512	2512	2512	
5°	2509	2508	2499	2485	2478	238
15°	2365	2370	2365	2354	2338	667
25°	2100	2116	2126	2111	2092	962
35°	1689	1712	1790	1800	1793	1058
45°	1308	1330	1373	1436	1444	1009
55°	916	931	977	1031	1061	817
65°	537	551	584	625	661	532
75°	215	227	243	255	269	235
85°	34	34	34	32	32	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2512.2	2512.2	2512.2	2512.2	2512.2
2.5°	2519.0	2520.0	2514.2	2498.7	2489.1
5°	2509.3	2508.4	2498.7	2485.2	2477.5
7.5°	2481.4	2483.3	2480.4	2461.1	2450.5
10°	2454.3	2455.3	2447.6	2432.1	2419.6
12.5°	2419.6	2418.6	2408.0	2400.3	2380.0
15°	2364.6	2370.4	2364.6	2354.0	2337.6
17.5°	2311.5	2311.5	2315.4	2297.0	2284.5
20°	2251.7	2254.6	2254.6	2240.1	2225.6
22.5°	2182.2	2190.9	2193.7	2178.3	2160.9
25°	2100.1	2116.5	2126.2	2110.7	2092.4
27.5°	2000.7	2025.8	2054.8	2043.2	2022.9
30°	1889.7	1926.4	1974.7	1965.0	1950.5
32.5°	1784.5	1821.2	1887.8	1883.9	1876.2
35°	1689.0	1712.1	1790.3	1800.0	1793.2
37.5°	1598.3	1619.5	1692.8	1715.0	1709.3
40°	1502.7	1525.9	1583.8	1623.4	1625.3
42.5°	1408.1	1430.3	1477.6	1534.6	1534.6
45°	1307.8	1330.0	1373.4	1436.1	1443.8
47.5°	1209.3	1232.5	1274.9	1337.7	1350.2
50°	1112.8	1134.0	1176.5	1237.3	1256.6
52.5°	1012.4	1035.6	1077.1	1133.1	1161.1
55°	915.9	931.4	976.7	1030.8	1060.7
57.5°	815.5	830.0	881.2	927.5	958.4
60°	719.0	737.4	776.9	824.2	859.9
62.5°	626.4	645.7	679.5	721.0	761.5
65°	536.6	551.1	583.9	625.4	661.1
67.5°	449.8	462.3	495.1	524.1	561.7
70°	361.9	378.3	402.5	430.4	454.6
72.5°	291.5	298.2	318.5	338.8	363.9
75°	215.2	226.8	243.2	254.8	269.3
77.5°	154.4	161.2	170.8	180.5	194.0
80°	103.3	106.2	114.9	116.8	127.4
82.5°	62.7	64.7	66.6	67.6	71.4
85°	33.8	33.8	33.8	31.8	31.8
87.5°	19.3	19.3	16.4	13.5	9.7
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)