

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: P555495

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-93-87-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: P555495  
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-35-UNV-93-87-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

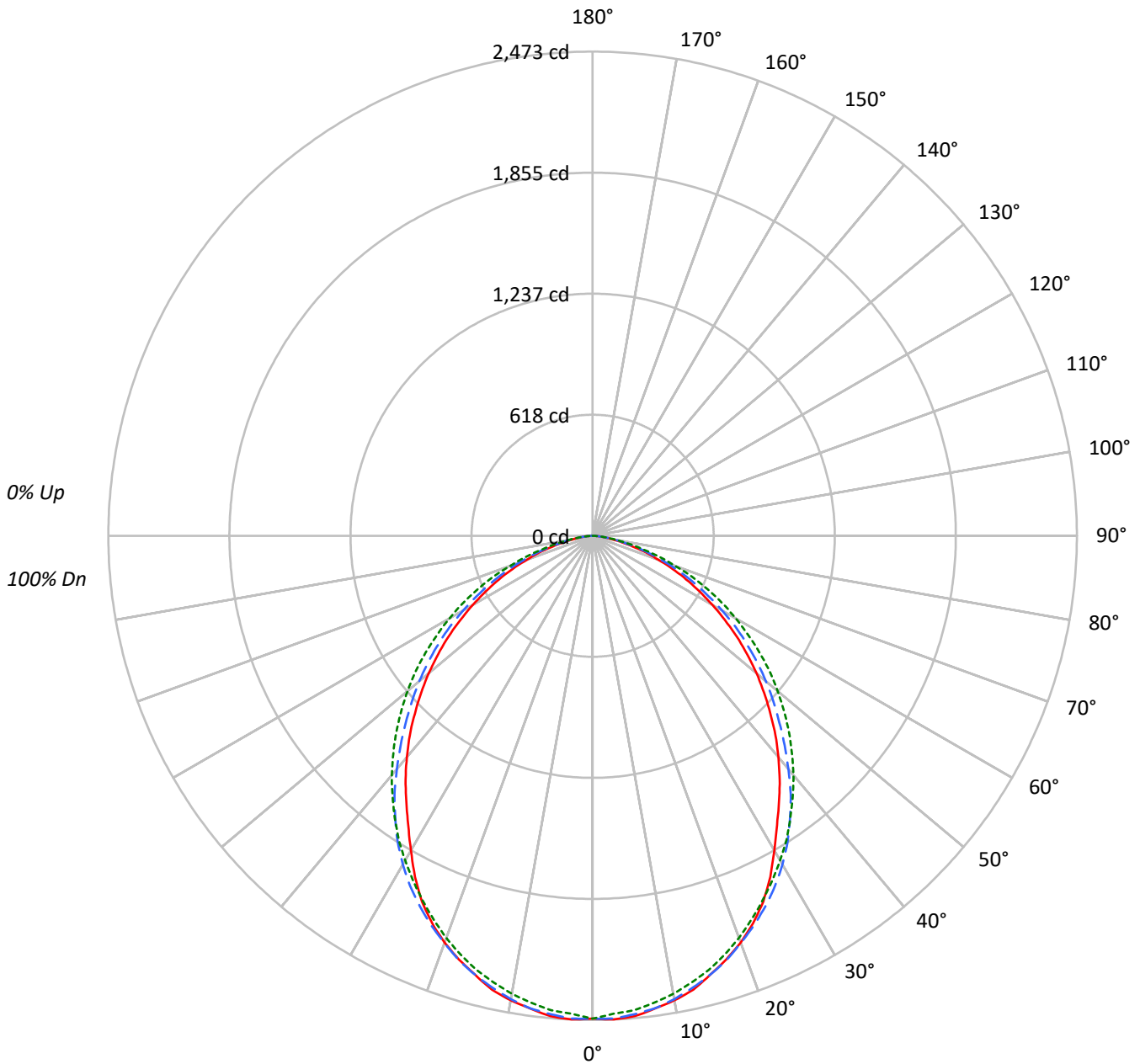
Lumens per Lamp: N/A  
Luminaire Lumens: 5703.0 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	13274	13274	13274
5°	13310	13253	13141
10°	13168	13132	12982
15°	12934	12934	12787
20°	12661	12677	12514
25°	12244	12396	12199
30°	11529	12048	11900
35°	10895	11548	11567
40°	10365	10924	11210
45°	9772	10262	10789
50°	9147	9671	10330
55°	8437	8998	9771
60°	7598	8211	9087
65°	6709	7301	8266
70°	5591	6217	7023
75°	4394	4966	5498
80°	3143	3496	3877
85°	2050	2050	1933



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.2	4.1
10°-20°	652.4	11.4
20°-30°	953.3	16.7
30°-40°	1082.1	19.0
40°-50°	1044.6	18.3
50°-60°	861.8	15.1
60°-70°	573.9	10.1
70°-80°	256.8	4.5
80°-90°	46.0	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°	1837.9	32.2
0°-40°	2920.0	51.2
0°-60°	4826.4	84.6
0°-90°	5703.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5703.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2466	2466	2466	2466	2466	
5°	2464	2463	2453	2440	2432	233
15°	2321	2327	2321	2311	2295	654
25°	2062	2078	2087	2072	2054	944
35°	1658	1681	1758	1767	1760	1039
45°	1284	1306	1348	1410	1418	991
55°	899	914	959	1012	1041	803
65°	527	541	573	614	649	522
75°	211	223	239	250	264	231
85°	33	33	33	31	31	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2466.4	2466.4	2466.4	2466.4	2466.4
2.5°	2473.0	2474.0	2468.3	2453.1	2443.7
5°	2463.6	2462.6	2453.1	2439.9	2432.3
7.5°	2436.1	2438.0	2435.1	2416.2	2405.8
10°	2409.5	2410.5	2402.9	2387.8	2375.4
12.5°	2375.4	2374.5	2364.1	2356.5	2336.6
15°	2321.4	2327.1	2321.4	2311.0	2294.9
17.5°	2269.3	2269.3	2273.1	2255.1	2242.8
20°	2210.6	2213.4	2213.4	2199.2	2185.0
22.5°	2142.3	2150.9	2153.7	2138.6	2121.5
25°	2061.8	2077.9	2087.4	2072.2	2054.2
27.5°	1964.2	1988.8	2017.3	2005.9	1986.0
30°	1855.2	1891.3	1938.6	1929.2	1914.9
32.5°	1752.0	1788.0	1853.4	1849.6	1842.0
35°	1658.2	1680.9	1757.7	1767.1	1760.5
37.5°	1569.1	1589.9	1662.0	1683.7	1678.1
40°	1475.3	1498.0	1554.9	1593.7	1595.6
42.5°	1382.4	1404.2	1450.7	1506.6	1506.6
45°	1283.9	1305.7	1348.3	1409.9	1417.5
47.5°	1187.2	1210.0	1251.7	1313.3	1325.6
50°	1092.5	1113.3	1155.0	1214.7	1233.7
52.5°	994.0	1016.7	1057.4	1112.4	1139.9
55°	899.2	914.4	958.9	1012.0	1041.3
57.5°	800.7	814.9	865.1	910.6	940.9
60°	705.9	723.9	762.8	809.2	844.2
62.5°	614.9	633.9	667.1	707.8	747.6
65°	526.8	541.0	573.3	614.0	649.1
67.5°	441.5	453.9	486.1	514.5	551.5
70°	355.3	371.4	395.1	422.6	446.3
72.5°	286.2	292.8	312.7	332.6	357.2
75°	211.3	222.7	238.8	250.1	264.4
77.5°	151.6	158.2	167.7	177.2	190.5
80°	101.4	104.2	112.8	114.7	125.1
82.5°	61.6	63.5	65.4	66.3	70.1
85°	33.2	33.2	33.2	31.3	31.3
87.5°	19.0	19.0	16.1	13.3	9.5
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)