

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: P555503

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-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: P555503  
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-93-97-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 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

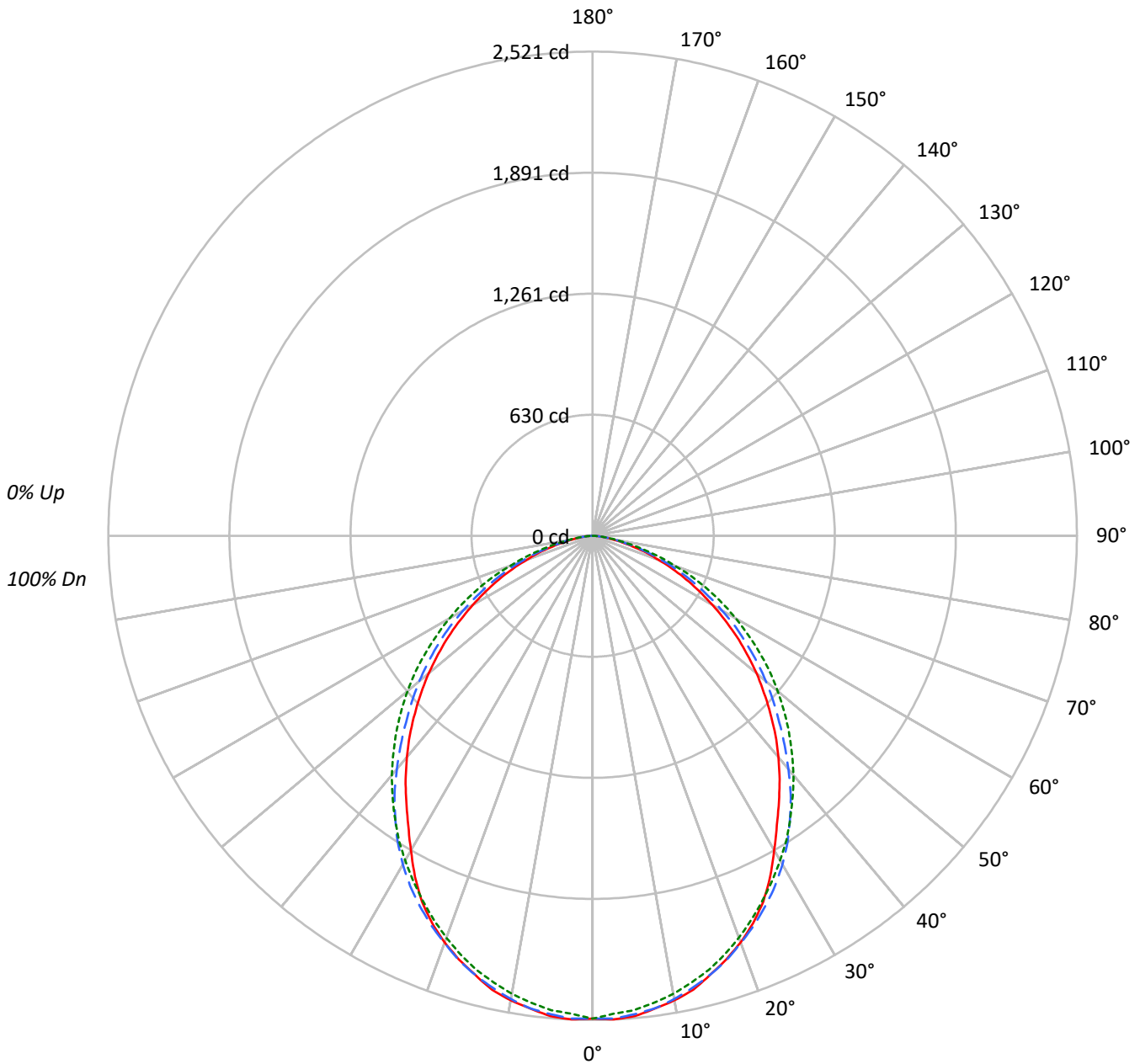
Lumens per Lamp: N/A  
Luminaire Lumens: 5813.0 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	13530	13530	13530
5°	13566	13509	13394
10°	13422	13385	13232
15°	13184	13184	13034
20°	12905	12921	12755
25°	12480	12635	12434
30°	11752	12280	12130
35°	11104	11771	11790
40°	10564	11135	11427
45°	9961	10460	10997
50°	9324	9857	10529
55°	8600	9171	9959
60°	7745	8369	9262
65°	6839	7441	8425
70°	5700	6337	7158
75°	4479	5061	5604
80°	3202	3561	3952
85°	2087	2087	1970



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.7	4.1
10°-20°	665.0	11.4
20°-30°	971.7	16.7
30°-40°	1103.0	19.0
40°-50°	1064.8	18.3
50°-60°	878.4	15.1
60°-70°	584.9	10.1
70°-80°	261.7	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°	1873.4	32.2
0°-40°	2976.4	51.2
0°-60°	4919.5	84.6
0°-90°	5813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5813.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2514	2514	2514	2514	2514	
5°	2511	2510	2500	2487	2479	238
15°	2366	2372	2366	2356	2339	667
25°	2102	2118	2128	2112	2094	962
35°	1690	1713	1792	1801	1794	1059
45°	1309	1331	1374	1437	1445	1010
55°	916	932	977	1032	1061	818
65°	537	552	584	626	662	532
75°	215	227	243	255	270	236
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°	2514.0	2514.0	2514.0	2514.0	2514.0
2.5°	2520.7	2521.7	2515.9	2500.5	2490.8
5°	2511.1	2510.1	2500.5	2486.9	2479.2
7.5°	2483.1	2485.0	2482.1	2462.8	2452.2
10°	2456.0	2457.0	2449.3	2433.8	2421.3
12.5°	2421.3	2420.3	2409.7	2401.9	2381.7
15°	2366.2	2372.0	2366.2	2355.6	2339.2
17.5°	2313.1	2313.1	2316.9	2298.6	2286.0
20°	2253.2	2256.1	2256.1	2241.6	2227.1
22.5°	2183.7	2192.4	2195.3	2179.8	2162.4
25°	2101.6	2118.0	2127.7	2112.2	2093.9
27.5°	2002.1	2027.2	2056.2	2044.6	2024.3
30°	1891.0	1927.7	1976.0	1966.4	1951.9
32.5°	1785.8	1822.5	1889.1	1885.2	1877.5
35°	1690.1	1713.3	1791.6	1801.2	1794.5
37.5°	1599.4	1620.6	1694.0	1716.2	1710.4
40°	1503.7	1526.9	1584.9	1624.5	1626.4
42.5°	1409.1	1431.3	1478.6	1535.6	1535.6
45°	1308.7	1330.9	1374.3	1437.1	1444.8
47.5°	1210.1	1233.3	1275.8	1338.6	1351.2
50°	1113.6	1134.8	1177.3	1238.2	1257.5
52.5°	1013.1	1036.3	1077.8	1133.8	1161.9
55°	916.5	932.0	977.4	1031.5	1061.4
57.5°	816.1	830.6	881.8	928.1	959.0
60°	719.5	737.9	777.5	824.8	860.5
62.5°	626.8	646.1	679.9	721.5	762.0
65°	537.0	551.5	584.3	625.8	661.6
67.5°	450.1	462.6	495.5	524.4	562.1
70°	362.2	378.6	402.7	430.7	454.9
72.5°	291.7	298.4	318.7	339.0	364.1
75°	215.4	227.0	243.4	255.0	269.5
77.5°	154.5	161.3	170.9	180.6	194.1
80°	103.3	106.2	114.9	116.9	127.5
82.5°	62.8	64.7	66.6	67.6	71.5
85°	33.8	33.8	33.8	31.9	31.9
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)