

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: P555580

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-80-96-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: P555580  
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-50-UNV-80-96-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

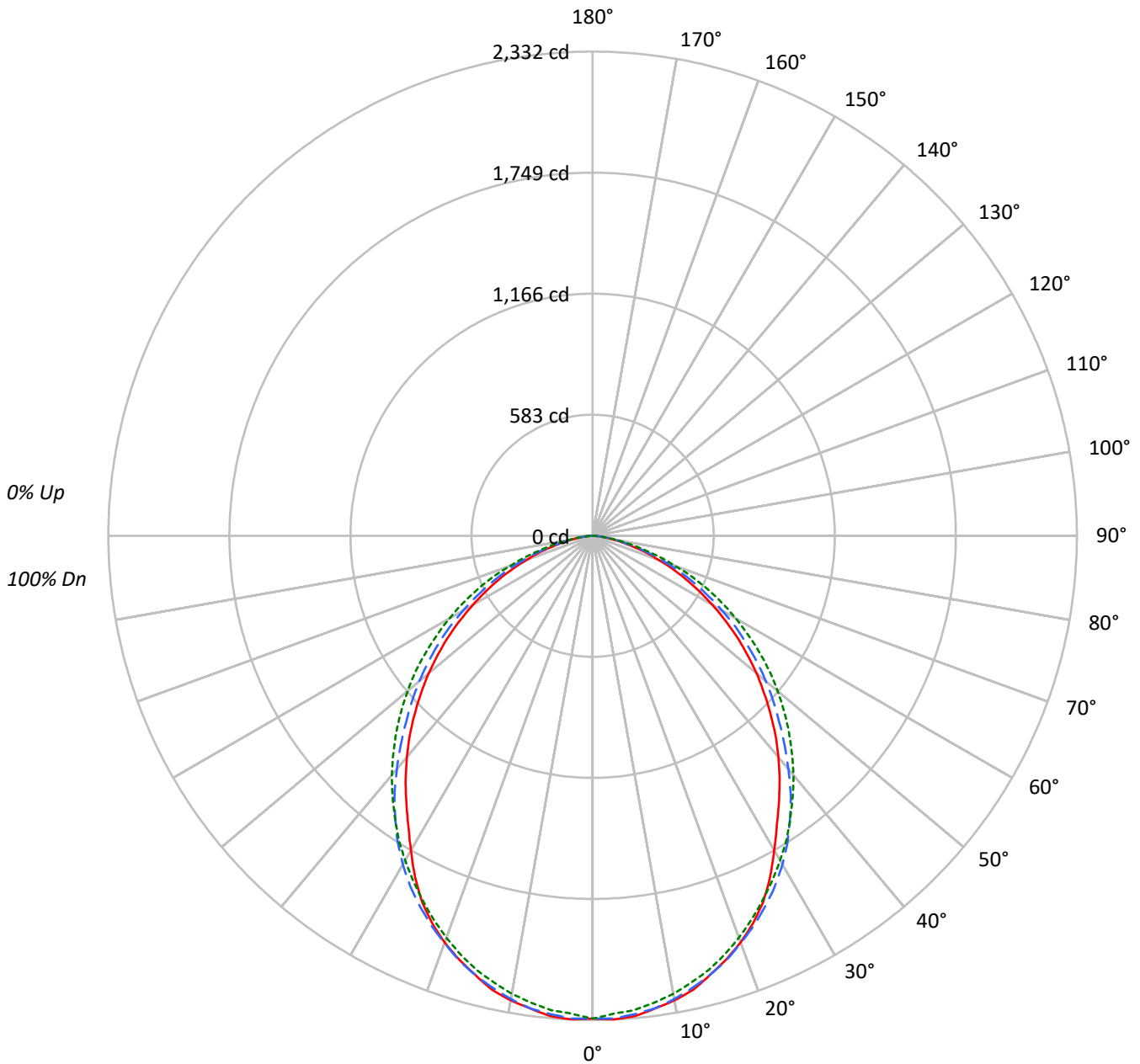
Lumens per Lamp: N/A  
Luminaire Lumens: 5377.0 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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				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°	12515	12515	12515
5°	12548	12495	12390
10°	12415	12381	12240
15°	12195	12195	12056
20°	11937	11952	11799
25°	11544	11687	11501
30°	10870	11359	11220
35°	10272	10888	10906
40°	9773	10300	10569
45°	9213	9675	10172
50°	8624	9118	9739
55°	7955	8483	9212
60°	7164	7741	8568
65°	6325	6883	7794
70°	5271	5862	6622
75°	4142	4681	5182
80°	2963	3295	3654
85°	1933	1933	1822



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.9	4.1
10°-20°	615.1	11.4
20°-30°	898.8	16.7
30°-40°	1020.3	19.0
40°-50°	984.9	18.3
50°-60°	812.5	15.1
60°-70°	541.0	10.1
70°-80°	242.1	4.5
80°-90°	43.3	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°	1732.9	32.2
0°-40°	2753.1	51.2
0°-60°	4550.5	84.6
0°-90°	5377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5377.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2325	2325	2325	2325	2325	
5°	2323	2322	2313	2300	2293	220
15°	2189	2194	2189	2179	2164	617
25°	1944	1959	1968	1954	1937	890
35°	1563	1585	1657	1666	1660	980
45°	1210	1231	1271	1329	1336	934
55°	848	862	904	954	982	757
65°	497	510	540	579	612	493
75°	199	210	225	236	249	218
85°	31	31	31	30	30	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2325.4	2325.4	2325.4	2325.4	2325.4
2.5°	2331.7	2332.6	2327.2	2312.9	2304.0
5°	2322.7	2321.8	2312.9	2300.4	2293.3
7.5°	2296.8	2298.6	2295.9	2278.1	2268.2
10°	2271.8	2272.7	2265.6	2251.3	2239.7
12.5°	2239.7	2238.8	2228.9	2221.8	2203.0
15°	2188.7	2194.1	2188.7	2178.9	2163.7
17.5°	2139.6	2139.6	2143.2	2126.2	2114.6
20°	2084.2	2086.9	2086.9	2073.5	2060.1
22.5°	2019.9	2027.9	2030.6	2016.3	2000.2
25°	1943.9	1959.1	1968.1	1953.8	1936.8
27.5°	1851.9	1875.2	1902.0	1891.2	1872.5
30°	1749.2	1783.1	1827.8	1818.9	1805.5
32.5°	1651.8	1685.8	1747.4	1743.8	1736.7
35°	1563.4	1584.8	1657.2	1666.1	1659.9
37.5°	1479.4	1499.1	1567.0	1587.5	1582.1
40°	1391.0	1412.4	1466.0	1502.6	1504.4
42.5°	1303.4	1324.0	1367.7	1420.4	1420.4
45°	1210.5	1231.0	1271.2	1329.3	1336.5
47.5°	1119.4	1140.8	1180.1	1238.2	1249.8
50°	1030.0	1049.7	1089.0	1145.3	1163.2
52.5°	937.1	958.6	997.0	1048.8	1074.7
55°	847.8	862.1	904.1	954.1	981.8
57.5°	754.9	768.3	815.6	858.5	887.1
60°	665.6	682.5	719.2	762.9	796.0
62.5°	579.8	597.7	628.9	667.3	704.9
65°	496.7	510.1	540.5	578.9	612.0
67.5°	416.3	427.9	458.3	485.1	519.9
70°	335.0	350.2	372.5	398.4	420.8
72.5°	269.8	276.0	294.8	313.6	336.8
75°	199.2	209.9	225.1	235.8	249.2
77.5°	142.9	149.2	158.1	167.1	179.6
80°	95.6	98.3	106.3	108.1	117.9
82.5°	58.1	59.9	61.6	62.5	66.1
85°	31.3	31.3	31.3	29.5	29.5
87.5°	17.9	17.9	15.2	12.5	8.9
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)