

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: P555447

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-80-87-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: P555447  
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-80-87-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC 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**

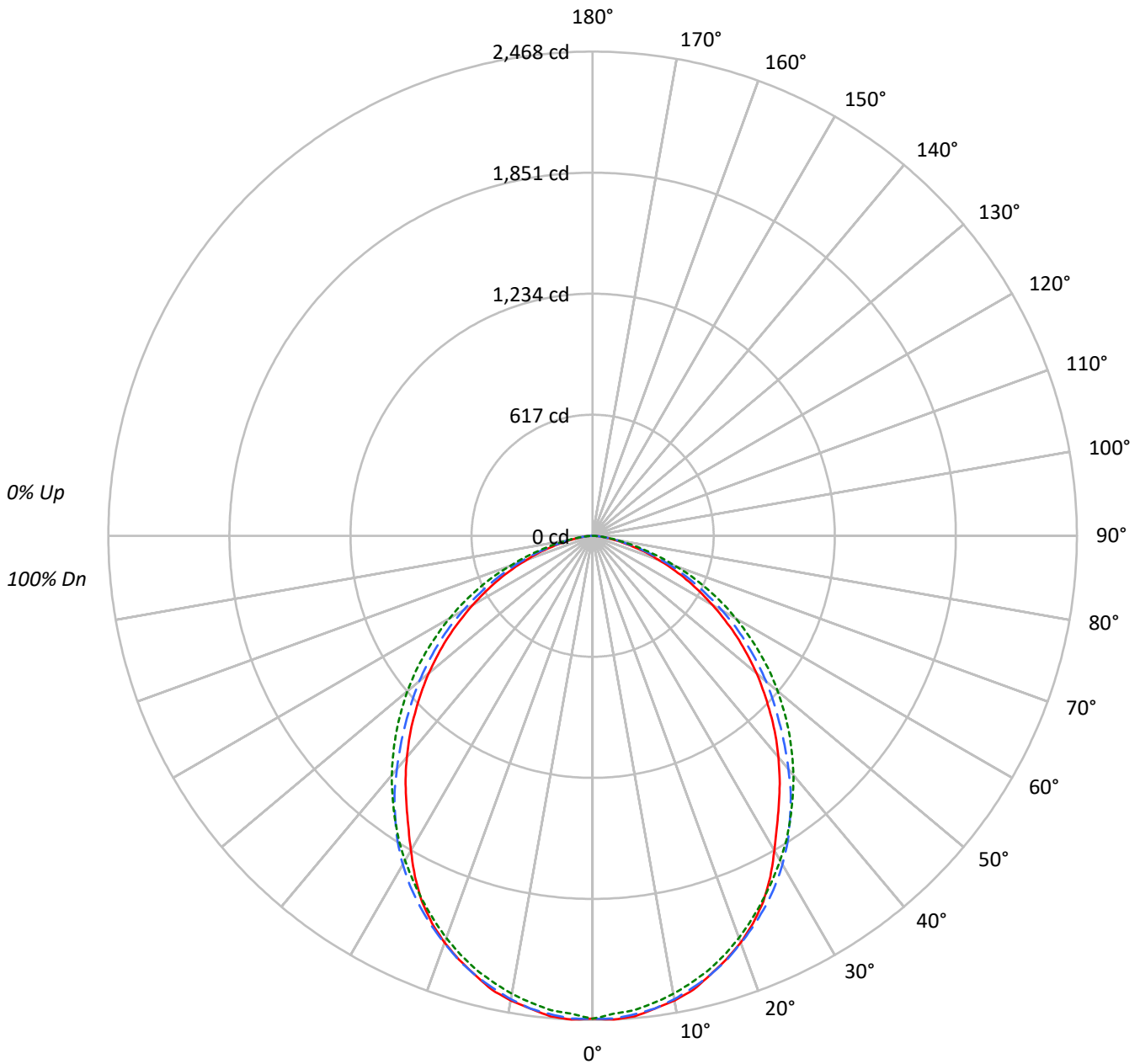
Lumens per Lamp: N/A  
Luminaire Lumens: 5692.0 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	13248	13248	13248
5°	13284	13228	13115
10°	13143	13107	12957
15°	12910	12910	12762
20°	12636	12652	12490
25°	12220	12372	12175
30°	11507	12025	11877
35°	10874	11526	11544
40°	10345	10903	11188
45°	9753	10242	10768
50°	9130	9652	10309
55°	8421	8980	9752
60°	7583	8195	9070
65°	6696	7286	8250
70°	5580	6206	7009
75°	4386	4955	5486
80°	3137	3487	3868
85°	2044	2044	1927



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.8	4.1
10°-20°	651.1	11.4
20°-30°	951.5	16.7
30°-40°	1080.0	19.0
40°-50°	1042.6	18.3
50°-60°	860.1	15.1
60°-70°	572.7	10.1
70°-80°	256.3	4.5
80°-90°	45.9	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°	1834.4	32.2
0°-40°	2914.4	51.2
0°-60°	4817.1	84.6
0°-90°	5692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5692.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2462	2462	2462	2462	2462	
5°	2459	2458	2448	2435	2428	233
15°	2317	2323	2317	2306	2290	653
25°	2058	2074	2083	2068	2050	942
35°	1655	1678	1754	1764	1757	1037
45°	1281	1303	1346	1407	1415	989
55°	898	913	957	1010	1039	801
65°	526	540	572	613	648	521
75°	211	222	238	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°	2461.6	2461.6	2461.6	2461.6	2461.6
2.5°	2468.3	2469.2	2463.5	2448.4	2438.9
5°	2458.8	2457.9	2448.4	2435.2	2427.6
7.5°	2431.4	2433.3	2430.4	2411.5	2401.1
10°	2404.9	2405.8	2398.3	2383.2	2370.9
12.5°	2370.9	2369.9	2359.5	2351.9	2332.1
15°	2317.0	2322.6	2317.0	2306.5	2290.5
17.5°	2264.9	2264.9	2268.7	2250.8	2238.5
20°	2206.3	2209.1	2209.1	2195.0	2180.8
22.5°	2138.2	2146.7	2149.6	2134.4	2117.4
25°	2057.8	2073.9	2083.4	2068.2	2050.3
27.5°	1960.4	1985.0	2013.4	2002.0	1982.2
30°	1851.7	1887.6	1934.9	1925.4	1911.2
32.5°	1748.6	1784.5	1849.8	1846.0	1838.4
35°	1655.0	1677.7	1754.3	1763.7	1757.1
37.5°	1566.1	1586.9	1658.7	1680.5	1674.8
40°	1472.4	1495.1	1551.9	1590.7	1592.5
42.5°	1379.8	1401.5	1447.9	1503.7	1503.7
45°	1281.4	1303.2	1345.7	1407.2	1414.8
47.5°	1185.0	1207.7	1249.3	1310.7	1323.0
50°	1090.4	1111.2	1152.8	1212.4	1231.3
52.5°	992.0	1014.7	1055.4	1110.2	1137.7
55°	897.5	912.6	957.0	1010.0	1039.3
57.5°	799.1	813.3	863.4	908.8	939.1
60°	704.5	722.5	761.3	807.6	842.6
62.5°	613.8	632.7	665.8	706.4	746.2
65°	525.8	540.0	572.1	612.8	647.8
67.5°	440.7	453.0	485.1	513.5	550.4
70°	354.6	370.7	394.4	421.8	445.4
72.5°	285.6	292.2	312.1	331.9	356.5
75°	210.9	222.2	238.3	249.7	263.8
77.5°	151.3	157.9	167.4	176.8	190.1
80°	101.2	104.0	112.5	114.4	124.8
82.5°	61.5	63.4	65.3	66.2	70.0
85°	33.1	33.1	33.1	31.2	31.2
87.5°	18.9	18.9	16.1	13.2	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)