

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: P555391

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-80-97-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: P555391  
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-80-97-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

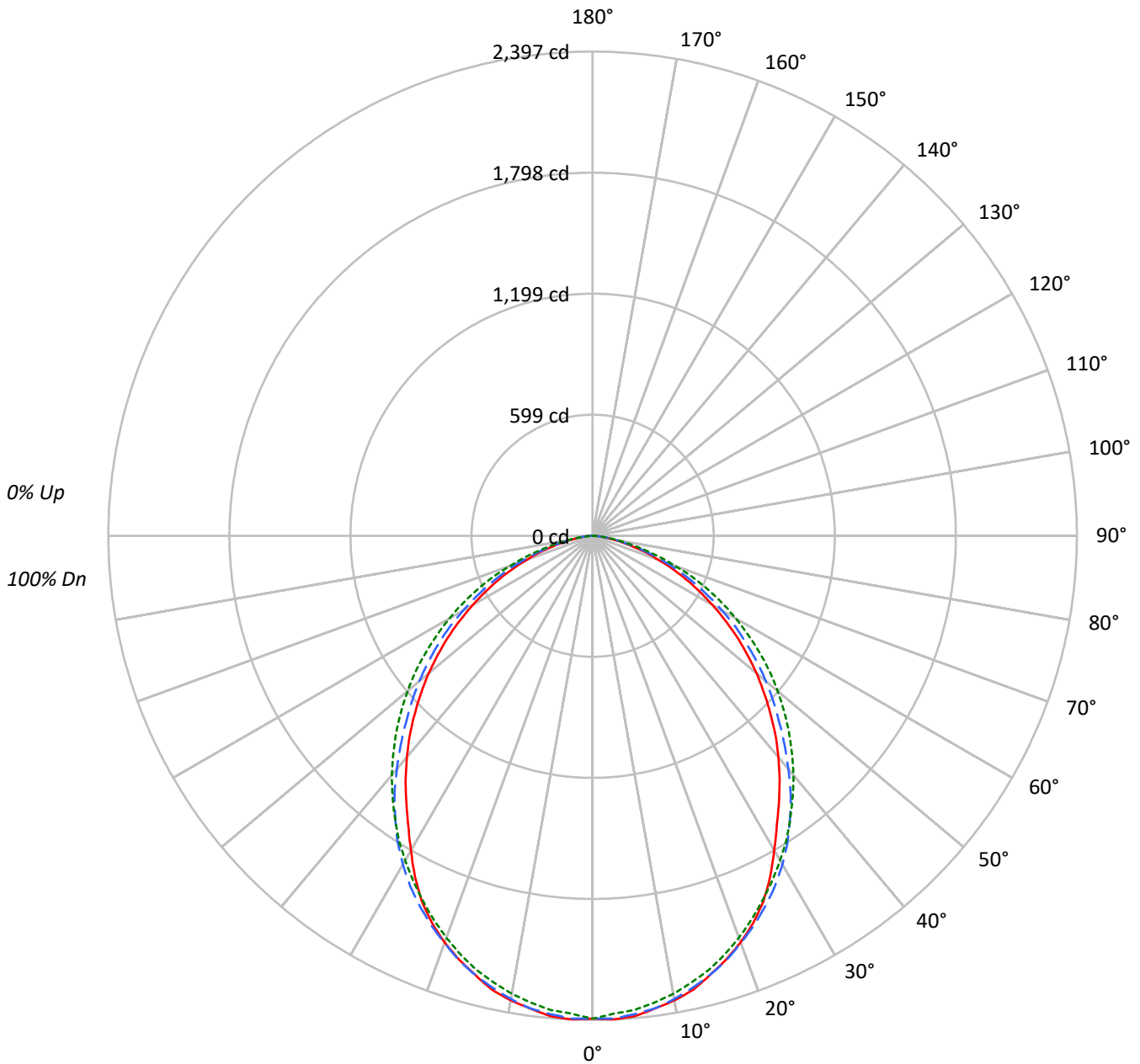
Lumens per Lamp: N/A  
Luminaire Lumens: 5527.0 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	12864	12864	12864
5°	12899	12844	12735
10°	12762	12727	12581
15°	12535	12535	12392
20°	12270	12286	12128
25°	11866	12013	11822
30°	11174	11676	11533
35°	10558	11192	11210
40°	10045	10587	10864
45°	9471	9946	10456
50°	8865	9373	10011
55°	8176	8720	9469
60°	7364	7957	8807
65°	6502	7075	8010
70°	5419	6025	6806
75°	4259	4812	5327
80°	3047	3388	3756
85°	1982	1982	1871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.1	4.1
10°-20°	632.2	11.4
20°-30°	923.9	16.7
30°-40°	1048.7	19.0
40°-50°	1012.4	18.3
50°-60°	835.2	15.1
60°-70°	556.1	10.1
70°-80°	248.9	4.5
80°-90°	44.5	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°	1781.2	32.2
0°-40°	2829.9	51.2
0°-60°	4677.5	84.6
0°-90°	5527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5527.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2390	2390	2390	2390	2390	
5°	2388	2387	2377	2365	2357	226
15°	2250	2255	2250	2240	2224	634
25°	1998	2014	2023	2008	1991	915
35°	1607	1629	1703	1713	1706	1007
45°	1244	1265	1307	1366	1374	960
55°	871	886	929	981	1009	778
65°	511	524	556	595	629	506
75°	205	216	231	242	256	224
85°	32	32	32	30	30	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2390.3	2390.3	2390.3	2390.3	2390.3
2.5°	2396.7	2397.6	2392.1	2377.4	2368.2
5°	2387.5	2386.6	2377.4	2364.6	2357.2
7.5°	2360.9	2362.7	2360.0	2341.6	2331.5
10°	2335.2	2336.1	2328.8	2314.1	2302.1
12.5°	2302.1	2301.2	2291.1	2283.8	2264.5
15°	2249.8	2255.3	2249.8	2239.7	2224.1
17.5°	2199.3	2199.3	2203.0	2185.5	2173.6
20°	2142.3	2145.1	2145.1	2131.3	2117.6
22.5°	2076.2	2084.5	2087.3	2072.6	2056.0
25°	1998.2	2013.8	2023.0	2008.3	1990.8
27.5°	1903.6	1927.5	1955.0	1944.0	1924.7
30°	1798.0	1832.9	1878.8	1869.6	1855.8
32.5°	1697.9	1732.8	1796.2	1792.5	1785.1
35°	1607.0	1629.0	1703.4	1712.6	1706.2
37.5°	1520.7	1540.9	1610.7	1631.8	1626.3
40°	1429.8	1451.8	1506.9	1544.5	1546.4
42.5°	1339.8	1360.9	1405.9	1460.1	1460.1
45°	1244.3	1265.4	1306.7	1366.4	1373.7
47.5°	1150.6	1172.6	1213.0	1272.7	1284.7
50°	1058.8	1079.0	1119.4	1177.2	1195.6
52.5°	963.3	985.3	1024.8	1078.1	1104.7
55°	871.4	886.1	929.3	980.7	1009.2
57.5°	775.9	789.7	838.4	882.5	911.9
60°	684.1	701.6	739.2	784.2	818.2
62.5°	596.0	614.3	646.5	686.0	724.5
65°	510.6	524.3	555.6	595.0	629.0
67.5°	427.9	439.9	471.1	498.6	534.4
70°	344.4	360.0	382.9	409.6	432.5
72.5°	277.3	283.7	303.0	322.3	346.2
75°	204.8	215.8	231.4	242.4	256.2
77.5°	146.9	153.4	162.5	171.7	184.6
80°	98.3	101.0	109.3	111.1	121.2
82.5°	59.7	61.5	63.4	64.3	68.0
85°	32.1	32.1	32.1	30.3	30.3
87.5°	18.4	18.4	15.6	12.9	9.2
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)