

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: P555451

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-80-94-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: P555451  
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-80-94-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

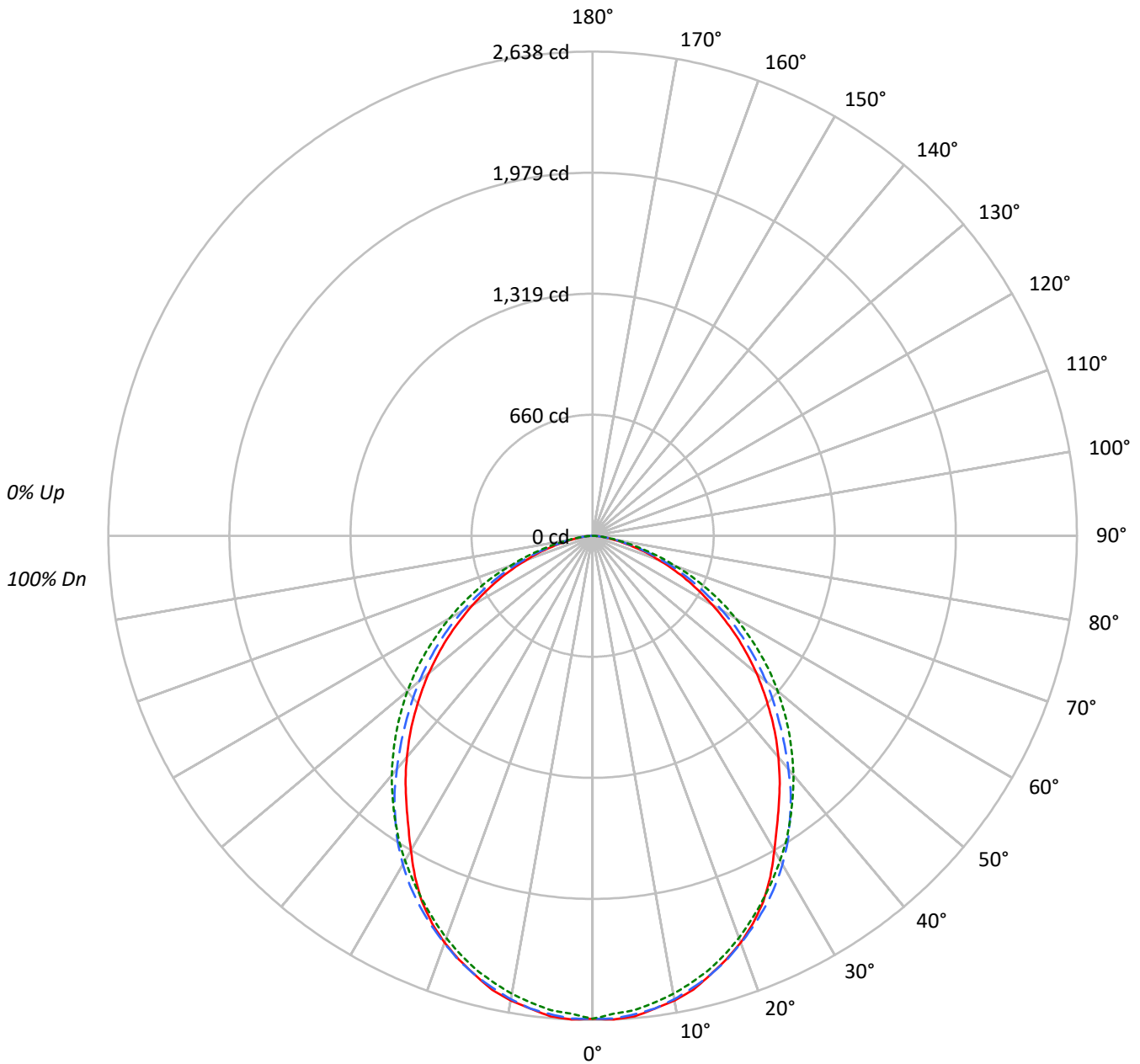
Lumens per Lamp: N/A  
Luminaire Lumens: 6084.0 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	14161	14161	14161
5°	14198	14138	14018
10°	14048	14009	13849
15°	13799	13799	13641
20°	13507	13524	13350
25°	13062	13223	13014
30°	12300	12852	12696
35°	11622	12320	12339
40°	11058	11654	11959
45°	10425	10948	11510
50°	9759	10317	11019
55°	9001	9599	10424
60°	8106	8759	9694
65°	7157	7787	8818
70°	5965	6633	7492
75°	4687	5296	5864
80°	3353	3729	4135
85°	2186	2186	2062



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.7	4.1
10°-20°	696.0	11.4
20°-30°	1017.0	16.7
30°-40°	1154.4	19.0
40°-50°	1114.4	18.3
50°-60°	919.3	15.1
60°-70°	612.2	10.1
70°-80°	273.9	4.5
80°-90°	49.0	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°	1960.7	32.2
0°-40°	3115.1	51.2
0°-60°	5148.8	84.6
0°-90°	6084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6084.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2631	2631	2631	2631	2631	
5°	2628	2627	2617	2603	2595	249
15°	2476	2483	2476	2465	2448	698
25°	2200	2217	2227	2211	2192	1007
35°	1769	1793	1875	1885	1878	1108
45°	1370	1393	1438	1504	1512	1057
55°	959	975	1023	1080	1111	856
65°	562	577	612	655	692	557
75°	225	238	255	267	282	246
85°	35	35	35	33	33	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2631.2	2631.2	2631.2	2631.2	2631.2
2.5°	2638.2	2639.3	2633.2	2617.0	2606.9
5°	2628.1	2627.1	2617.0	2602.9	2594.8
7.5°	2598.8	2600.8	2597.8	2577.6	2566.5
10°	2570.5	2571.5	2563.4	2547.3	2534.1
12.5°	2534.1	2533.1	2522.0	2513.9	2492.7
15°	2476.5	2482.6	2476.5	2465.4	2448.2
17.5°	2420.9	2420.9	2425.0	2405.8	2392.6
20°	2358.3	2361.3	2361.3	2346.1	2331.0
22.5°	2285.5	2294.6	2297.6	2281.4	2263.2
25°	2199.6	2216.7	2226.8	2210.7	2191.5
27.5°	2095.4	2121.7	2152.0	2139.9	2118.7
30°	1979.2	2017.6	2068.1	2058.0	2042.9
32.5°	1869.0	1907.4	1977.2	1973.1	1965.0
35°	1768.9	1793.2	1875.1	1885.2	1878.1
37.5°	1673.9	1696.2	1773.0	1796.2	1790.2
40°	1573.9	1598.1	1658.8	1700.2	1702.2
42.5°	1474.8	1498.0	1547.6	1607.2	1607.2
45°	1369.7	1392.9	1438.4	1504.1	1512.2
47.5°	1266.6	1290.8	1335.3	1401.0	1414.1
50°	1165.5	1187.7	1232.2	1295.9	1316.1
52.5°	1060.4	1084.6	1128.1	1186.7	1216.0
55°	959.3	975.4	1023.0	1079.6	1110.9
57.5°	854.1	869.3	922.9	971.4	1003.7
60°	753.1	772.3	813.7	863.2	900.6
62.5°	656.0	676.2	711.6	755.1	797.5
65°	562.0	577.2	611.5	655.0	692.4
67.5°	471.0	484.2	518.6	548.9	588.3
70°	379.1	396.2	421.5	450.8	476.1
72.5°	305.3	312.3	333.6	354.8	381.1
75°	225.4	237.5	254.7	266.9	282.0
77.5°	161.7	168.8	178.9	189.0	203.2
80°	108.2	111.2	120.3	122.3	133.4
82.5°	65.7	67.7	69.7	70.8	74.8
85°	35.4	35.4	35.4	33.4	33.4
87.5°	20.2	20.2	17.2	14.2	10.1
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)