

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: P555387

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-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: P555387  
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-80-94-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND  
3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

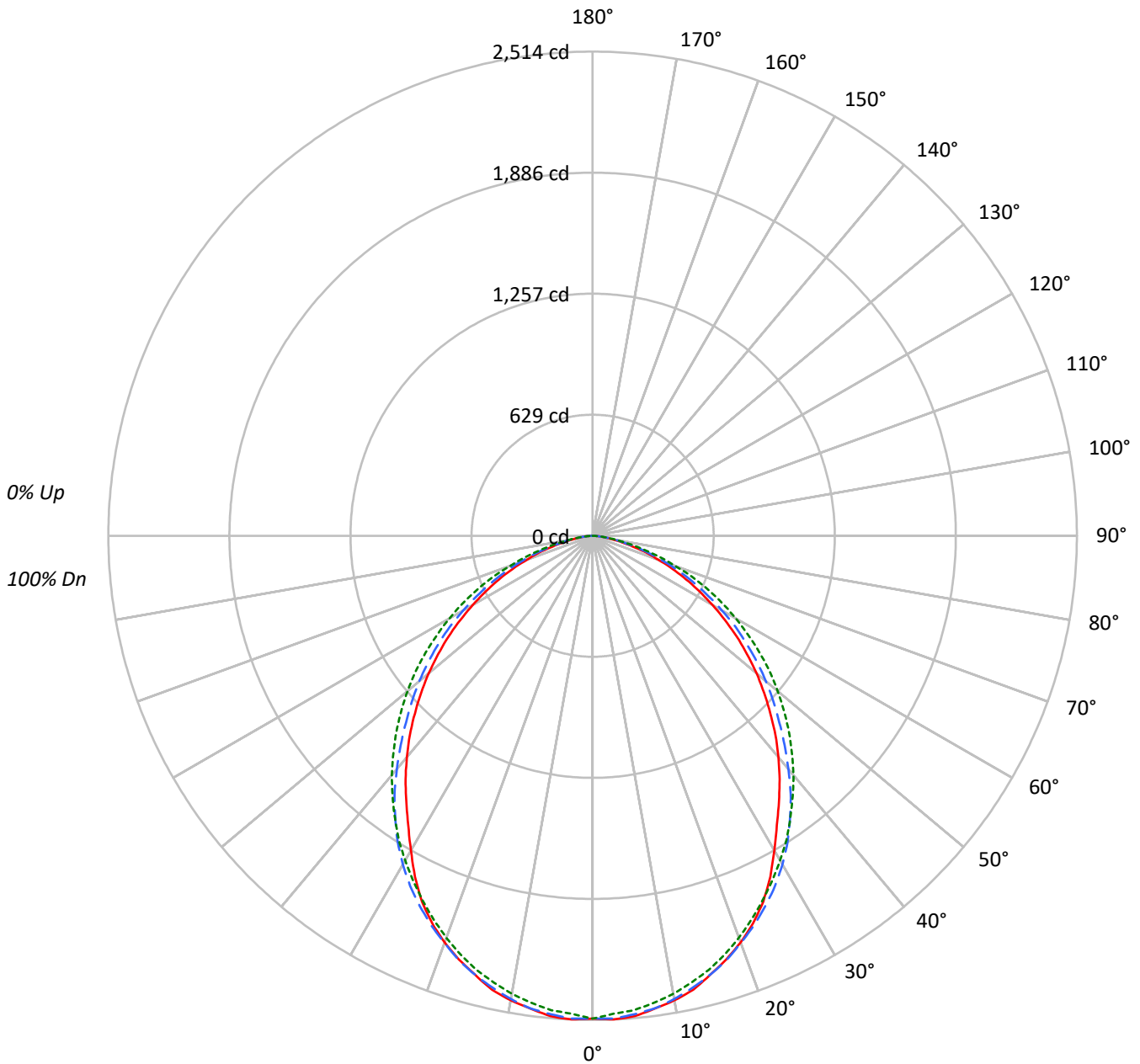
Lumens per Lamp: N/A  
Luminaire Lumens: 5797.0 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	13493	13493	13493
5°	13529	13472	13357
10°	13385	13348	13196
15°	13148	13148	12997
20°	12869	12886	12720
25°	12446	12600	12400
30°	11719	12246	12097
35°	11074	11738	11757
40°	10536	11104	11395
45°	9933	10431	10967
50°	9298	9831	10500
55°	8576	9146	9932
60°	7723	8345	9238
65°	6819	7421	8402
70°	5684	6319	7138
75°	4467	5047	5587
80°	3195	3552	3939
85°	2081	2081	1964



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.0	4.1
10°-20°	663.1	11.4
20°-30°	969.0	16.7
30°-40°	1100.0	19.0
40°-50°	1061.8	18.3
50°-60°	875.9	15.1
60°-70°	583.3	10.1
70°-80°	261.0	4.5
80°-90°	46.7	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°	1868.2	32.2
0°-40°	2968.2	51.2
0°-60°	4905.9	84.6
0°-90°	5797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5797.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2507	2507	2507	2507	2507	
5°	2504	2503	2494	2480	2472	237
15°	2360	2366	2360	2349	2333	665
25°	2096	2112	2122	2106	2088	960
35°	1686	1709	1787	1796	1790	1056
45°	1305	1327	1370	1433	1441	1007
55°	914	929	975	1029	1058	816
65°	536	550	583	624	660	531
75°	215	226	243	254	269	235
85°	34	34	34	32	32	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2507.1	2507.1	2507.1	2507.1	2507.1
2.5°	2513.8	2514.8	2509.0	2493.6	2483.9
5°	2504.2	2503.2	2493.6	2480.1	2472.4
7.5°	2476.2	2478.2	2475.3	2456.0	2445.4
10°	2449.3	2450.2	2442.5	2427.1	2414.6
12.5°	2414.6	2413.6	2403.0	2395.3	2375.1
15°	2359.7	2365.5	2359.7	2349.1	2332.7
17.5°	2306.7	2306.7	2310.6	2292.3	2279.8
20°	2247.0	2249.9	2249.9	2235.4	2221.0
22.5°	2177.7	2186.3	2189.2	2173.8	2156.5
25°	2095.8	2112.2	2121.8	2106.4	2088.1
27.5°	1996.6	2021.6	2050.5	2039.0	2018.7
30°	1885.8	1922.4	1970.6	1961.0	1946.5
32.5°	1780.8	1817.4	1883.9	1880.0	1872.3
35°	1685.5	1708.6	1786.6	1796.3	1789.5
37.5°	1595.0	1616.1	1689.3	1711.5	1705.7
40°	1499.6	1522.7	1580.5	1620.0	1621.9
42.5°	1405.2	1427.4	1474.6	1531.4	1531.4
45°	1305.1	1327.2	1370.5	1433.2	1440.9
47.5°	1206.8	1229.9	1272.3	1334.9	1347.4
50°	1110.5	1131.7	1174.1	1234.7	1254.0
52.5°	1010.3	1033.4	1074.9	1130.7	1158.7
55°	914.0	929.4	974.7	1028.6	1058.5
57.5°	813.9	828.3	879.3	925.6	956.4
60°	717.5	735.8	775.3	822.5	858.2
62.5°	625.1	644.3	678.1	719.5	759.9
65°	535.5	550.0	582.7	624.1	659.8
67.5°	448.8	461.3	494.1	523.0	560.5
70°	361.2	377.6	401.6	429.6	453.6
72.5°	290.9	297.6	317.8	338.1	363.1
75°	214.8	226.3	242.7	254.3	268.7
77.5°	154.1	160.8	170.5	180.1	193.6
80°	103.1	105.9	114.6	116.5	127.1
82.5°	62.6	64.5	66.5	67.4	71.3
85°	33.7	33.7	33.7	31.8	31.8
87.5°	19.3	19.3	16.4	13.5	9.6
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)