

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: P555979

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-81-94-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: P555979  
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-LD4-3STD-35-UNV-81-94-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDES  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

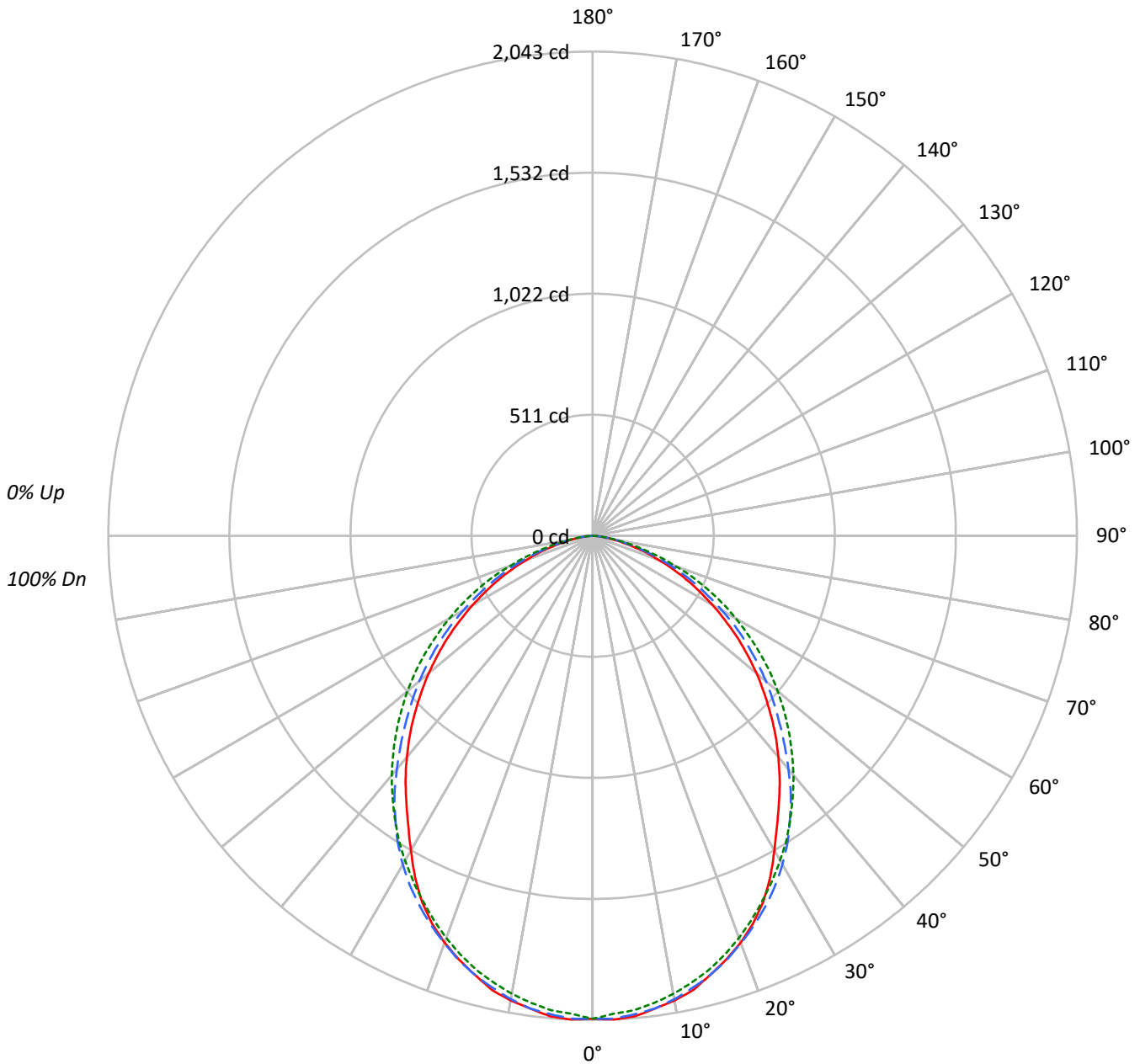
Lumens per Lamp: N/A  
Luminaire Lumens: 4712.0 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
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°	10967	10967	10967
5°	10997	10950	10857
10°	10880	10850	10726
15°	10687	10687	10565
20°	10460	10474	10340
25°	10116	10242	10079
30°	9526	9954	9833
35°	9001	9541	9557
40°	8564	9026	9263
45°	8074	8479	8914
50°	7558	7990	8534
55°	6971	7434	8073
60°	6278	6783	7508
65°	5543	6031	6830
70°	4620	5138	5802
75°	3631	4103	4541
80°	2597	2889	3202
85°	1692	1692	1593



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.9	4.1
10°-20°	539.0	11.4
20°-30°	787.7	16.7
30°-40°	894.1	19.0
40°-50°	863.1	18.3
50°-60°	712.0	15.1
60°-70°	474.1	10.1
70°-80°	212.2	4.5
80°-90°	38.0	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°	1518.5	32.2
0°-40°	2412.6	51.2
0°-60°	3987.7	84.6
0°-90°	4712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4712.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2038	2038	2038	2038	2038	
5°	2036	2035	2027	2016	2010	193
15°	1918	1923	1918	1909	1896	541
25°	1704	1717	1725	1712	1697	780
35°	1370	1389	1452	1460	1455	858
45°	1061	1079	1114	1165	1171	818
55°	743	756	792	836	860	663
65°	435	447	474	507	536	432
75°	175	184	197	207	218	191
85°	27	27	27	26	26	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2037.8	2037.8	2037.8	2037.8	2037.8
2.5°	2043.3	2044.1	2039.4	2026.9	2019.0
5°	2035.5	2034.7	2026.9	2015.9	2009.6
7.5°	2012.8	2014.3	2012.0	1996.3	1987.7
10°	1990.8	1991.6	1985.4	1972.8	1962.7
12.5°	1962.7	1961.9	1953.3	1947.0	1930.6
15°	1918.0	1922.7	1918.0	1909.4	1896.1
17.5°	1875.0	1875.0	1878.1	1863.2	1853.1
20°	1826.4	1828.8	1828.8	1817.0	1805.3
22.5°	1770.1	1777.1	1779.5	1766.9	1752.9
25°	1703.5	1716.8	1724.7	1712.1	1697.3
27.5°	1622.9	1643.3	1666.7	1657.3	1640.9
30°	1532.9	1562.6	1601.8	1593.9	1582.2
32.5°	1447.5	1477.3	1531.3	1528.2	1521.9
35°	1370.0	1388.8	1452.2	1460.1	1454.6
37.5°	1296.4	1313.7	1373.2	1391.2	1386.5
40°	1218.9	1237.7	1284.7	1316.8	1318.4
42.5°	1142.2	1160.2	1198.6	1244.8	1244.8
45°	1060.8	1078.8	1114.0	1164.9	1171.2
47.5°	980.9	999.7	1034.2	1085.1	1095.2
50°	902.7	919.9	954.3	1003.6	1019.3
52.5°	821.2	840.0	873.7	919.1	941.8
55°	742.9	755.5	792.3	836.1	860.4
57.5°	661.5	673.3	714.8	752.3	777.4
60°	583.2	598.1	630.2	668.6	697.5
62.5°	508.1	523.7	551.1	584.8	617.7
65°	435.3	447.0	473.6	507.3	536.3
67.5°	364.8	375.0	401.6	425.1	455.6
70°	293.6	306.9	326.5	349.2	368.7
72.5°	236.4	241.9	258.3	274.8	295.1
75°	174.6	184.0	197.3	206.7	218.4
77.5°	125.3	130.7	138.6	146.4	157.4
80°	83.8	86.1	93.2	94.7	103.3
82.5°	50.9	52.5	54.0	54.8	57.9
85°	27.4	27.4	27.4	25.8	25.8
87.5°	15.7	15.7	13.3	11.0	7.8
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)