

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: P555957

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-80-86-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: P555957  
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-80-86-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

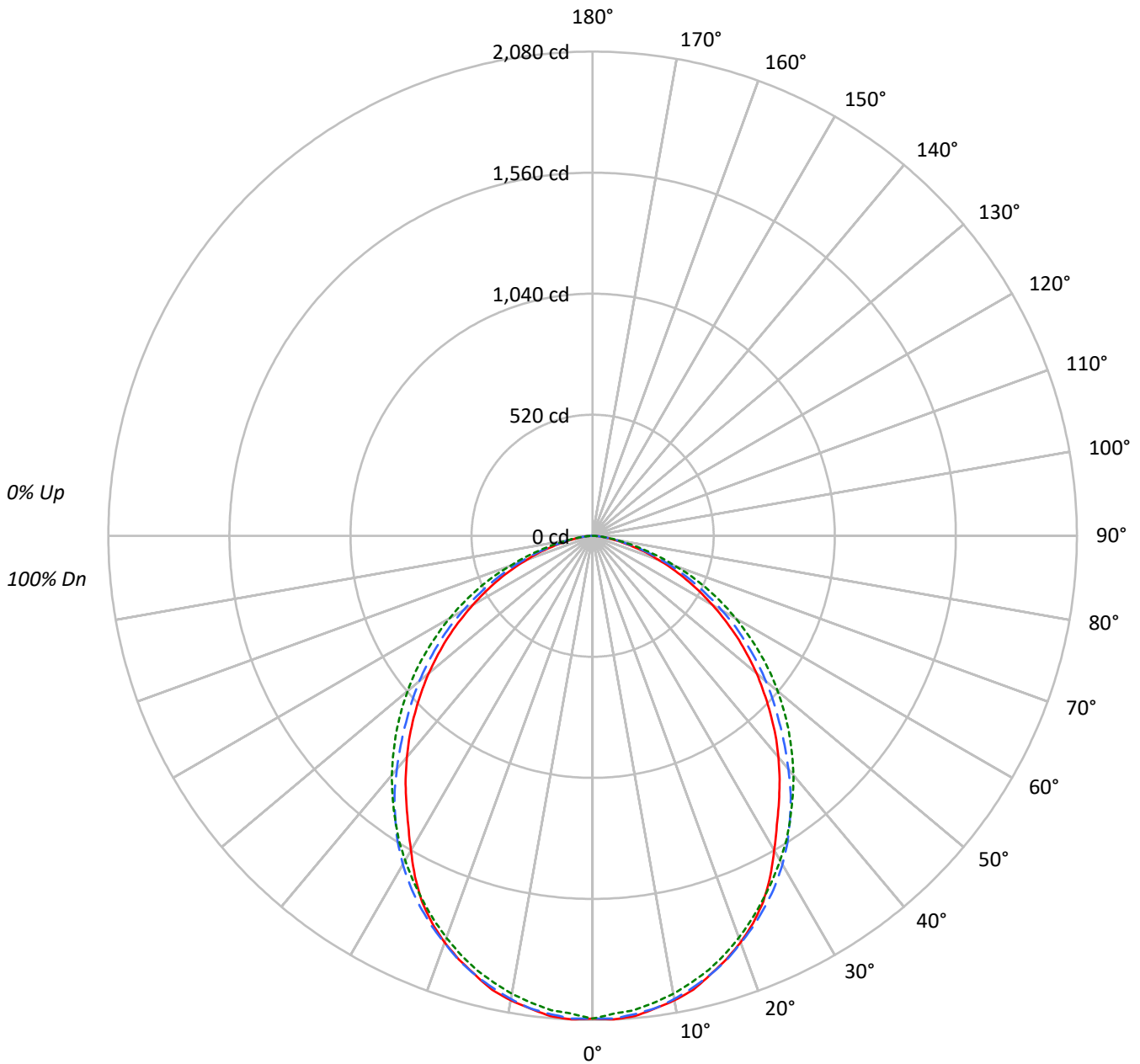
Lumens per Lamp: N/A  
Luminaire Lumens: 4796.0 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
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					20					
RC	80					70					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°	11163	11163	11163
5°	11193	11145	11051
10°	11074	11044	10917
15°	10877	10877	10753
20°	10647	10661	10524
25°	10296	10424	10258
30°	9696	10132	10008
35°	9162	9711	9727
40°	8717	9187	9428
45°	8218	8630	9073
50°	7692	8133	8687
55°	7096	7567	8217
60°	6389	6904	7642
65°	5642	6139	6951
70°	4702	5229	5906
75°	3695	4175	4623
80°	2644	2938	3261
85°	1723	1723	1624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.3	4.1
10°-20°	548.6	11.4
20°-30°	801.7	16.7
30°-40°	910.0	19.0
40°-50°	878.5	18.3
50°-60°	724.7	15.1
60°-70°	482.6	10.1
70°-80°	216.0	4.5
80°-90°	38.6	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°	1545.6	32.2
0°-40°	2455.6	51.2
0°-60°	4058.8	84.6
0°-90°	4796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4796.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2074	2074	2074	2074	2074	
5°	2072	2071	2063	2052	2046	196
15°	1952	1957	1952	1944	1930	550
25°	1734	1747	1755	1743	1728	794
35°	1394	1414	1478	1486	1480	874
45°	1080	1098	1134	1186	1192	833
55°	756	769	806	851	876	675
65°	443	455	482	516	546	439
75°	178	187	201	210	222	194
85°	28	28	28	26	26	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2074.1	2074.1	2074.1	2074.1	2074.1
2.5°	2079.7	2080.5	2075.7	2063.0	2055.0
5°	2071.8	2071.0	2063.0	2051.8	2045.5
7.5°	2048.6	2050.2	2047.9	2031.9	2023.1
10°	2026.3	2027.1	2020.8	2008.0	1997.7
12.5°	1997.7	1996.9	1988.1	1981.7	1965.0
15°	1952.2	1957.0	1952.2	1943.5	1929.9
17.5°	1908.4	1908.4	1911.6	1896.5	1886.1
20°	1859.0	1861.4	1861.4	1849.4	1837.5
22.5°	1801.6	1808.8	1811.2	1798.4	1784.1
25°	1733.9	1747.4	1755.4	1742.7	1727.5
27.5°	1651.8	1672.5	1696.4	1686.9	1670.2
30°	1560.2	1590.5	1630.3	1622.3	1610.4
32.5°	1473.3	1503.6	1558.6	1555.4	1549.0
35°	1394.5	1413.6	1478.1	1486.1	1480.5
37.5°	1319.5	1337.1	1397.6	1416.0	1411.2
40°	1240.7	1259.8	1307.6	1340.3	1341.9
42.5°	1162.6	1180.9	1219.9	1267.0	1267.0
45°	1079.7	1098.0	1133.9	1185.7	1192.1
47.5°	998.4	1017.6	1052.6	1104.4	1114.8
50°	918.7	936.3	971.3	1021.5	1037.5
52.5°	835.9	855.0	889.3	935.5	958.6
55°	756.2	768.9	806.4	851.0	875.7
57.5°	673.3	685.3	727.5	765.8	791.3
60°	593.6	608.8	641.4	680.5	710.0
62.5°	517.1	533.1	561.0	595.2	628.7
65°	443.0	455.0	482.1	516.3	545.8
67.5°	371.3	381.7	408.8	432.7	463.8
70°	298.8	312.4	332.3	355.4	375.3
72.5°	240.6	246.2	263.0	279.7	300.4
75°	177.7	187.3	200.8	210.4	222.3
77.5°	127.5	133.1	141.0	149.0	160.2
80°	85.3	87.7	94.8	96.4	105.2
82.5°	51.8	53.4	55.0	55.8	59.0
85°	27.9	27.9	27.9	26.3	26.3
87.5°	15.9	15.9	13.5	11.2	8.0
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)