

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: P555582

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-80-97-EDD-90**

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: P555582  
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-50-UNV-80-97-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND  
5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

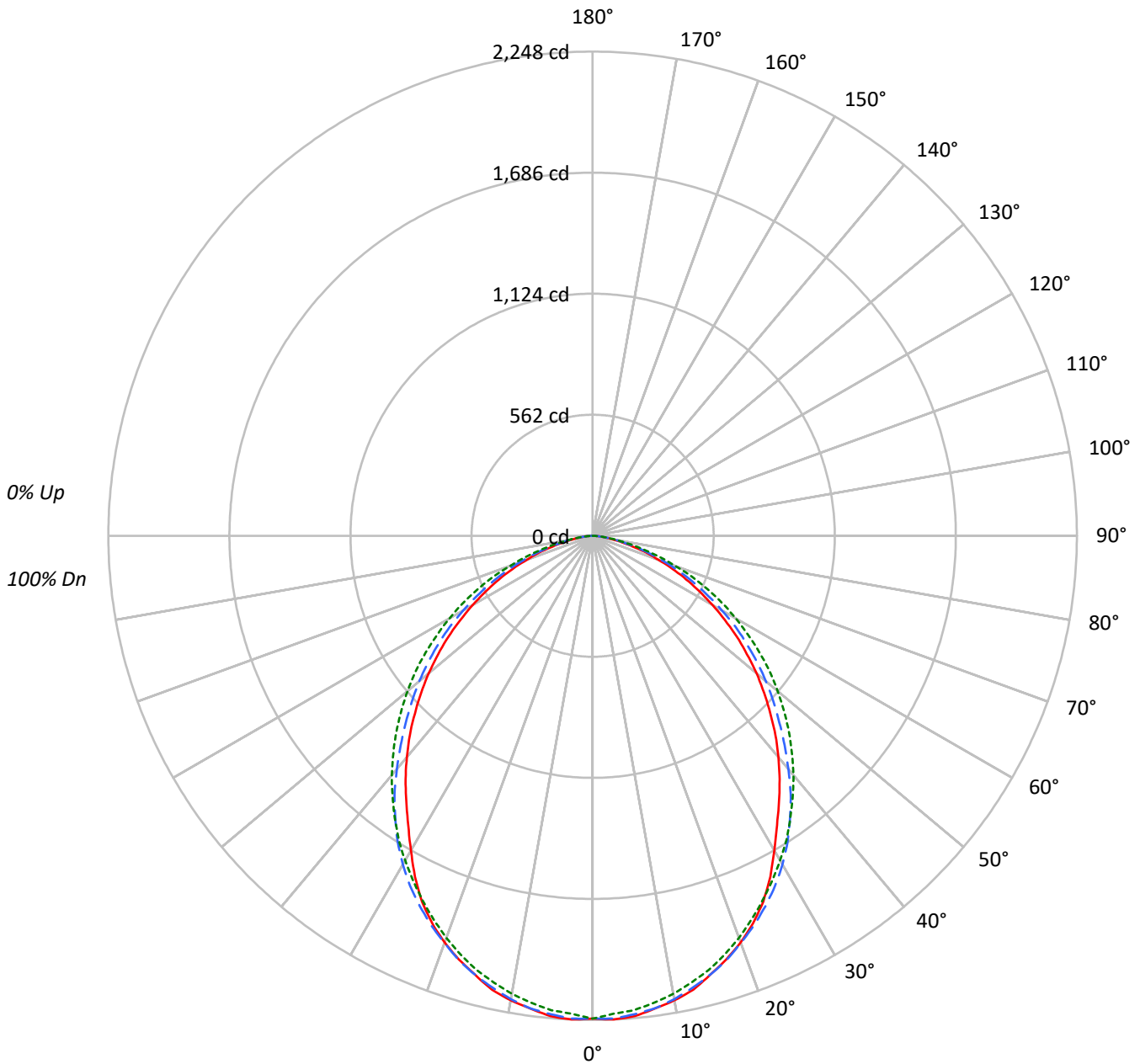
Lumens per Lamp: N/A  
Luminaire Lumens: 5184.0 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	12066	12066	12066
5°	12098	12047	11944
10°	11970	11937	11801
15°	11758	11758	11623
20°	11509	11523	11375
25°	11130	11267	11089
30°	10480	10951	10818
35°	9903	10497	10514
40°	9421	9930	10190
45°	8883	9328	9807
50°	8315	8791	9389
55°	7670	8178	8882
60°	6907	7463	8260
65°	6099	6636	7514
70°	5083	5652	6384
75°	3995	4512	4997
80°	2858	3177	3524
85°	1859	1859	1754



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.1	4.1
10°-20°	593.0	11.4
20°-30°	866.6	16.7
30°-40°	983.6	19.0
40°-50°	949.6	18.3
50°-60°	783.3	15.1
60°-70°	521.6	10.1
70°-80°	233.4	4.5
80°-90°	41.7	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°	1670.7	32.2
0°-40°	2654.3	51.2
0°-60°	4387.2	84.6
0°-90°	5184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5184.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2242	2242	2242	2242	2242	
5°	2239	2238	2230	2218	2211	212
15°	2110	2115	2110	2101	2086	595
25°	1874	1889	1897	1884	1867	858
35°	1507	1528	1598	1606	1600	944
45°	1167	1187	1226	1282	1288	900
55°	817	831	872	920	947	730
65°	479	492	521	558	590	475
75°	192	202	217	227	240	210
85°	30	30	30	28	28	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2241.9	2241.9	2241.9	2241.9	2241.9
2.5°	2248.0	2248.8	2243.7	2229.9	2221.3
5°	2239.4	2238.5	2229.9	2217.8	2210.9
7.5°	2214.4	2216.1	2213.5	2196.3	2186.8
10°	2190.3	2191.1	2184.2	2170.5	2159.3
12.5°	2159.3	2158.4	2148.9	2142.0	2123.9
15°	2110.2	2115.3	2110.2	2100.7	2086.1
17.5°	2062.8	2062.8	2066.2	2049.9	2038.7
20°	2009.4	2012.0	2012.0	1999.1	1986.1
22.5°	1947.4	1955.1	1957.7	1943.9	1928.4
25°	1874.2	1888.8	1897.4	1883.6	1867.3
27.5°	1785.5	1807.9	1833.7	1823.4	1805.3
30°	1686.4	1719.1	1762.2	1753.6	1740.7
32.5°	1592.5	1625.3	1684.7	1681.2	1674.4
35°	1507.3	1527.9	1597.7	1606.3	1600.3
37.5°	1426.3	1445.2	1510.7	1530.5	1525.4
40°	1341.0	1361.7	1413.4	1448.7	1450.4
42.5°	1256.6	1276.4	1318.6	1369.5	1369.5
45°	1167.1	1186.9	1225.6	1281.6	1288.5
47.5°	1079.2	1099.9	1137.8	1193.8	1204.9
50°	993.1	1012.0	1049.9	1104.2	1121.4
52.5°	903.5	924.2	961.2	1011.2	1036.1
55°	817.4	831.1	871.6	919.9	946.6
57.5°	727.8	740.7	786.4	827.7	855.3
60°	641.7	658.0	693.3	735.5	767.4
62.5°	559.0	576.2	606.4	643.4	679.6
65°	478.9	491.8	521.1	558.1	590.0
67.5°	401.4	412.6	441.8	467.7	501.3
70°	323.0	337.6	359.2	384.1	405.7
72.5°	260.1	266.1	284.2	302.3	324.7
75°	192.1	202.4	217.0	227.4	240.3
77.5°	137.8	143.8	152.4	161.1	173.1
80°	92.2	94.7	102.5	104.2	113.7
82.5°	56.0	57.7	59.4	60.3	63.7
85°	30.1	30.1	30.1	28.4	28.4
87.5°	17.2	17.2	14.6	12.1	8.6
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)