

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: P555964

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-80-96-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: P555964  
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-80-96-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND  
3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

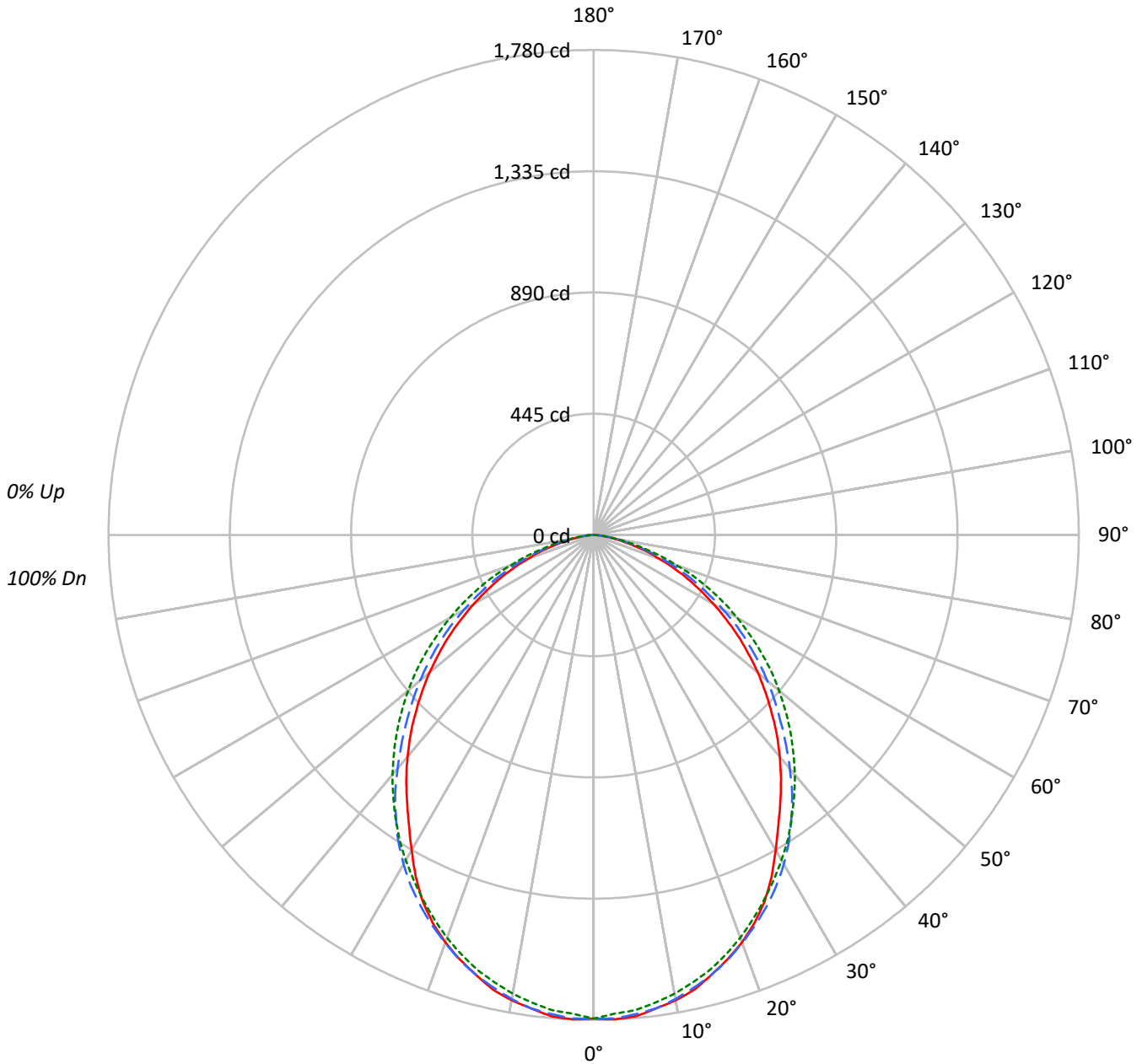
Lumens per Lamp: N/A  
Luminaire Lumens: 4105.0 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	9555	9555	9555
5°	9580	9540	9459
10°	9478	9452	9344
15°	9310	9310	9204
20°	9113	9125	9007
25°	8813	8922	8780
30°	8299	8672	8566
35°	7841	8313	8326
40°	7461	7863	8069
45°	7034	7387	7766
50°	6584	6961	7435
55°	6073	6476	7033
60°	5469	5909	6541
65°	4829	5254	5950
70°	4025	4475	5054
75°	3163	3575	3957
80°	2263	2517	2789
85°	1476	1476	1389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.2	4.1
10°-20°	469.6	11.4
20°-30°	686.2	16.7
30°-40°	778.9	19.0
40°-50°	751.9	18.3
50°-60°	620.3	15.1
60°-70°	413.1	10.1
70°-80°	184.8	4.5
80°-90°	33.1	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°	1322.9	32.2
0°-40°	2101.8	51.2
0°-60°	3474.0	84.6
0°-90°	4105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4105.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1773	1773	1766	1756	1751	168
15°	1671	1675	1671	1664	1652	471
25°	1484	1496	1502	1492	1479	680
35°	1194	1210	1265	1272	1267	748
45°	924	940	970	1015	1020	713
55°	647	658	690	728	750	578
65°	379	389	413	442	467	376
75°	152	160	172	180	190	166
85°	24	24	24	22	22	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1775.3	1775.3	1775.3	1775.3	1775.3
2.5°	1780.1	1780.8	1776.7	1765.8	1758.9
5°	1773.3	1772.6	1765.8	1756.2	1750.8
7.5°	1753.5	1754.8	1752.8	1739.2	1731.7
10°	1734.4	1735.1	1729.6	1718.7	1709.8
12.5°	1709.8	1709.2	1701.6	1696.2	1681.9
15°	1671.0	1675.0	1671.0	1663.5	1651.9
17.5°	1633.4	1633.4	1636.2	1623.2	1614.3
20°	1591.2	1593.2	1593.2	1583.0	1572.7
22.5°	1542.1	1548.2	1550.2	1539.3	1527.1
25°	1484.1	1495.7	1502.5	1491.6	1478.6
27.5°	1413.8	1431.6	1452.0	1443.8	1429.5
30°	1335.4	1361.3	1395.4	1388.6	1378.4
32.5°	1261.1	1287.0	1334.0	1331.3	1325.9
35°	1193.5	1209.9	1265.2	1272.0	1267.2
37.5°	1129.4	1144.4	1196.3	1212.0	1207.9
40°	1061.9	1078.3	1119.2	1147.2	1148.5
42.5°	995.1	1010.8	1044.2	1084.4	1084.4
45°	924.1	939.8	970.5	1014.9	1020.3
47.5°	854.6	870.9	901.0	945.3	954.2
50°	786.4	801.4	831.4	874.4	888.0
52.5°	715.4	731.8	761.1	800.7	820.5
55°	647.2	658.2	690.2	728.4	749.5
57.5°	576.3	586.5	622.7	655.4	677.2
60°	508.1	521.1	549.0	582.4	607.7
62.5°	442.6	456.3	480.1	509.5	538.1
65°	379.2	389.4	412.6	442.0	467.2
67.5°	317.8	326.7	349.9	370.3	396.9
70°	255.8	267.4	284.4	304.2	321.2
72.5°	206.0	210.7	225.1	239.4	257.1
75°	152.1	160.3	171.9	180.1	190.3
77.5°	109.1	113.9	120.7	127.5	137.1
80°	73.0	75.0	81.2	82.5	90.0
82.5°	44.3	45.7	47.1	47.7	50.5
85°	23.9	23.9	23.9	22.5	22.5
87.5°	13.6	13.6	11.6	9.5	6.8
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)