

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: P555890

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-80-85-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: P555890  
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-30-UNV-80-85-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

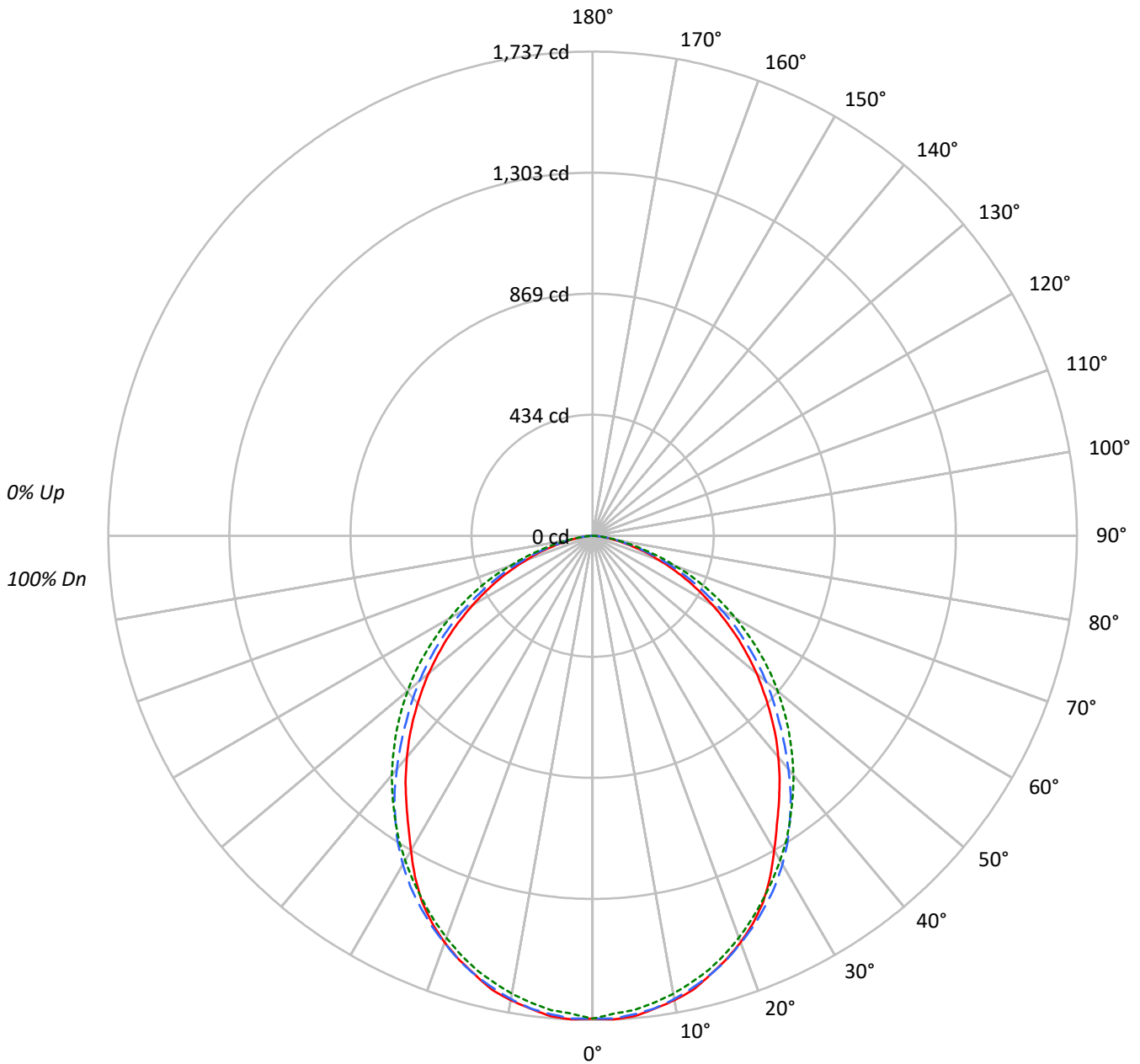
Lumens per Lamp: N/A  
Luminaire Lumens: 4005.0 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
Input Voltage (V): NR  
Input Current (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									
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°	9322	9322	9322
5°	9347	9307	9228
10°	9247	9222	9117
15°	9084	9084	8980
20°	8891	8903	8788
25°	8598	8705	8567
30°	8097	8460	8357
35°	7651	8110	8123
40°	7279	7671	7872
45°	6862	7207	7577
50°	6424	6791	7254
55°	5925	6319	6862
60°	5336	5766	6382
65°	4712	5127	5805
70°	3926	4367	4932
75°	3086	3487	3859
80°	2207	2455	2721
85°	1439	1439	1359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.1	4.1
10°-20°	458.1	11.4
20°-30°	669.5	16.7
30°-40°	759.9	19.0
40°-50°	733.6	18.3
50°-60°	605.2	15.1
60°-70°	403.0	10.1
70°-80°	180.3	4.5
80°-90°	32.3	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°	1290.7	32.2
0°-40°	2050.6	51.2
0°-60°	3389.4	84.6
0°-90°	4005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4005.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1732	1732	1732	1732	1732	
5°	1730	1729	1723	1713	1708	164
15°	1630	1634	1630	1623	1612	460
25°	1448	1459	1466	1455	1443	663
35°	1164	1180	1234	1241	1236	730
45°	902	917	947	990	996	696
55°	632	642	673	711	731	564
65°	370	380	403	431	456	367
75°	148	156	168	176	186	162
85°	23	23	23	22	22	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1732.1	1732.1	1732.1	1732.1	1732.1
2.5°	1736.7	1737.4	1733.4	1722.7	1716.1
5°	1730.1	1729.4	1722.7	1713.4	1708.1
7.5°	1710.8	1712.1	1710.1	1696.8	1689.5
10°	1692.1	1692.8	1687.5	1676.8	1668.2
12.5°	1668.2	1667.5	1660.2	1654.9	1640.9
15°	1630.3	1634.2	1630.3	1622.9	1611.6
17.5°	1593.7	1593.7	1596.3	1583.7	1575.0
20°	1552.4	1554.4	1554.4	1544.4	1534.4
22.5°	1504.5	1510.5	1512.5	1501.8	1489.9
25°	1447.9	1459.2	1465.9	1455.2	1442.6
27.5°	1379.4	1396.7	1416.7	1408.7	1394.7
30°	1302.9	1328.2	1361.4	1354.8	1344.8
32.5°	1230.3	1255.6	1301.5	1298.9	1293.6
35°	1164.5	1180.4	1234.3	1241.0	1236.3
37.5°	1101.9	1116.6	1167.1	1182.4	1178.4
40°	1036.0	1052.0	1091.9	1119.2	1120.5
42.5°	970.8	986.1	1018.7	1058.0	1058.0
45°	901.6	916.9	946.9	990.1	995.5
47.5°	833.8	849.7	879.0	922.3	930.9
50°	767.2	781.9	811.1	853.1	866.4
52.5°	698.0	714.0	742.6	781.2	800.5
55°	631.5	642.1	673.4	710.7	731.3
57.5°	562.3	572.3	607.5	639.5	660.8
60°	495.7	508.4	535.7	568.3	592.9
62.5°	431.9	445.2	468.4	497.1	525.0
65°	370.0	379.9	402.6	431.2	455.8
67.5°	310.1	318.7	341.4	361.3	387.3
70°	249.5	260.8	277.5	296.8	313.4
72.5°	201.0	205.6	219.6	233.6	250.9
75°	148.4	156.4	167.7	175.7	185.6
77.5°	106.5	111.1	117.8	124.4	133.7
80°	71.2	73.2	79.2	80.5	87.8
82.5°	43.3	44.6	45.9	46.6	49.2
85°	23.3	23.3	23.3	22.0	22.0
87.5°	13.3	13.3	11.3	9.3	6.7
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)