

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: P554672

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-80-84-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: P554672  
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-LD4-2HI-35-UNV-80-84-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

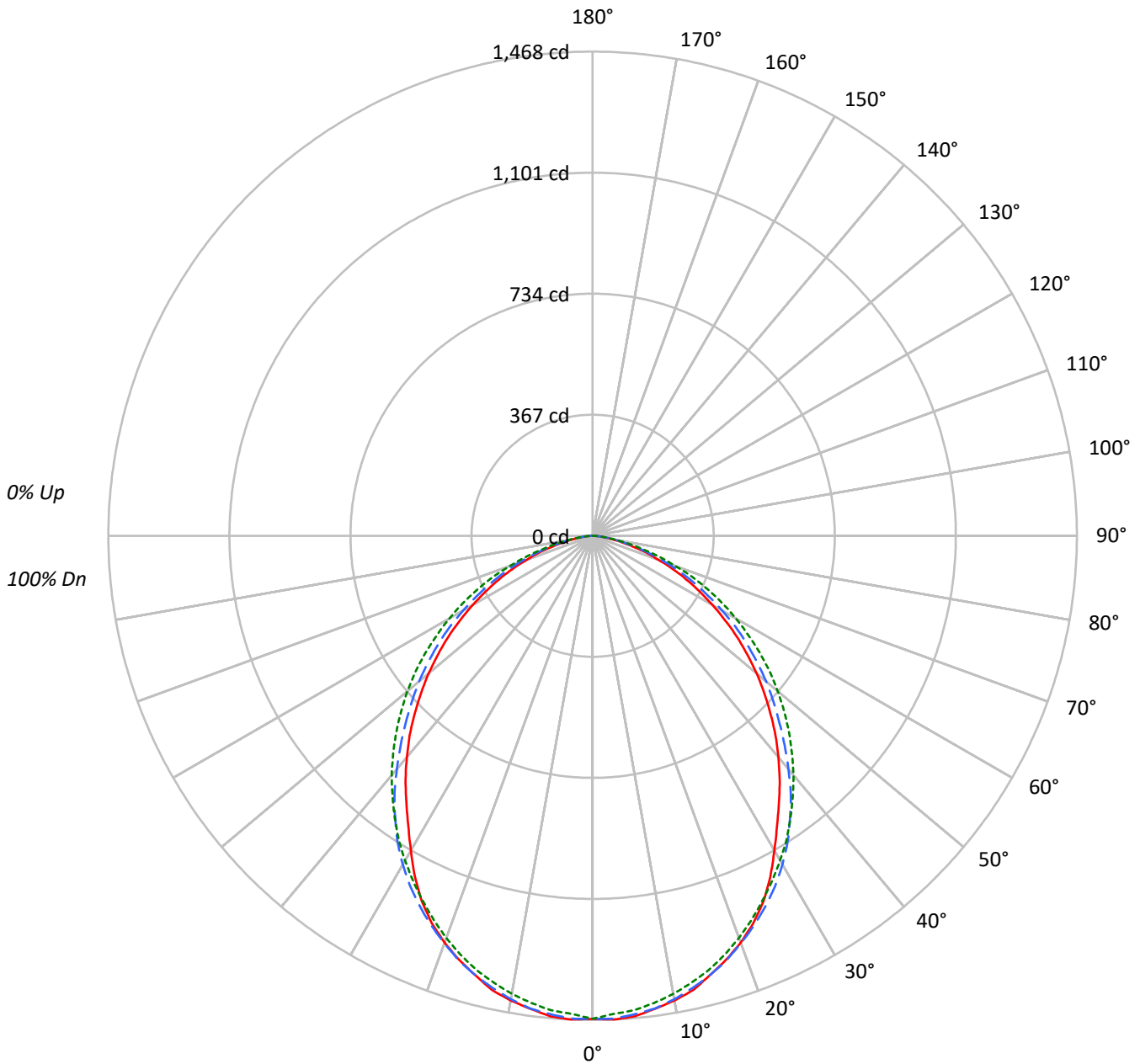
Lumens per Lamp: N/A  
Luminaire Lumens: 3386.0 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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°	7881	7881	7881
5°	7902	7869	7802
10°	7818	7797	7708
15°	7680	7680	7592
20°	7517	7527	7430
25°	7269	7359	7242
30°	6845	7153	7065
35°	6468	6857	6867
40°	6154	6486	6656
45°	5802	6093	6406
50°	5431	5742	6133
55°	5010	5342	5802
60°	4511	4875	5395
65°	3983	4335	4908
70°	3320	3692	4170
75°	2610	2949	3265
80°	1866	2073	2303
85°	1216	1216	1149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.9	4.1
10°-20°	387.3	11.4
20°-30°	566.0	16.7
30°-40°	642.5	19.0
40°-50°	620.2	18.3
50°-60°	511.6	15.1
60°-70°	340.7	10.1
70°-80°	152.5	4.5
80°-90°	27.3	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°	1091.2	32.2
0°-40°	1733.7	51.2
0°-60°	2865.5	84.6
0°-90°	3386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3386.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1463	1462	1456	1449	1444	138
15°	1378	1382	1378	1372	1362	389
25°	1224	1234	1239	1230	1220	561
35°	984	998	1044	1049	1045	617
45°	762	775	800	837	842	588
55°	534	543	569	601	618	477
65°	313	321	340	364	385	310
75°	126	132	142	148	157	137
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1464.4	1464.4	1464.4	1464.4	1464.4
2.5°	1468.3	1468.9	1465.5	1456.5	1450.9
5°	1462.7	1462.1	1456.5	1448.6	1444.1
7.5°	1446.4	1447.5	1445.8	1434.5	1428.4
10°	1430.6	1431.2	1426.7	1417.7	1410.4
12.5°	1410.4	1409.8	1403.6	1399.1	1387.3
15°	1378.3	1381.7	1378.3	1372.1	1362.5
17.5°	1347.3	1347.3	1349.6	1338.9	1331.6
20°	1312.5	1314.2	1314.2	1305.7	1297.3
22.5°	1272.0	1277.0	1278.7	1269.7	1259.6
25°	1224.1	1233.7	1239.3	1230.3	1219.6
27.5°	1166.2	1180.8	1197.7	1191.0	1179.1
30°	1101.5	1122.9	1151.0	1145.4	1136.9
32.5°	1040.2	1061.6	1100.4	1098.1	1093.6
35°	984.5	998.0	1043.6	1049.2	1045.2
37.5°	931.6	944.0	986.7	999.7	996.3
40°	875.9	889.4	923.2	946.2	947.4
42.5°	820.8	833.7	861.3	894.5	894.5
45°	762.3	775.2	800.5	837.1	841.6
47.5°	704.9	718.4	743.1	779.7	787.0
50°	648.6	661.0	685.8	721.2	732.5
52.5°	590.1	603.6	627.8	660.5	676.8
55°	533.9	542.9	569.3	600.8	618.3
57.5°	475.4	483.8	513.6	540.6	558.6
60°	419.1	429.8	452.9	480.4	501.2
62.5°	365.1	376.4	396.0	420.2	443.9
65°	312.8	321.2	340.4	364.5	385.4
67.5°	262.2	269.5	288.6	305.5	327.4
70°	211.0	220.5	234.6	250.9	265.0
72.5°	169.9	173.8	185.6	197.5	212.1
75°	125.5	132.2	141.8	148.5	157.0
77.5°	90.0	93.9	99.6	105.2	113.1
80°	60.2	61.9	66.9	68.1	74.3
82.5°	36.6	37.7	38.8	39.4	41.6
85°	19.7	19.7	19.7	18.6	18.6
87.5°	11.3	11.3	9.6	7.9	5.6
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)