

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: P555233

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-93-84-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: P555233  
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-LD4-2STD-35-UNV-93-84-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

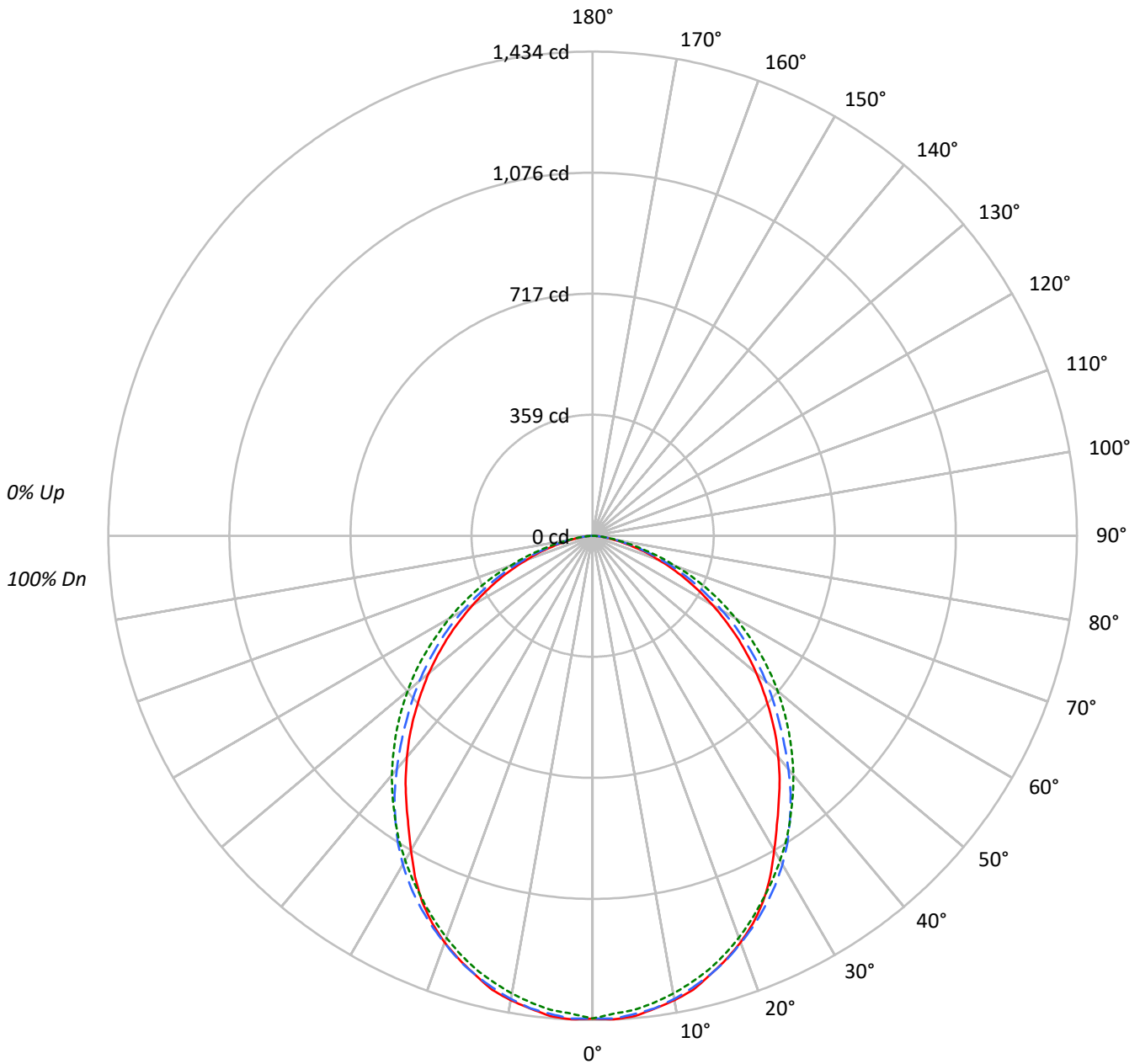
Lumens per Lamp: N/A  
Luminaire Lumens: 3306.0 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	7695	7695	7695
5°	7715	7683	7618
10°	7633	7613	7525
15°	7498	7498	7412
20°	7340	7349	7254
25°	7097	7186	7071
30°	6684	6984	6899
35°	6315	6694	6706
40°	6008	6333	6499
45°	5665	5949	6254
50°	5303	5606	5988
55°	4891	5216	5665
60°	4405	4760	5268
65°	3889	4232	4792
70°	3242	3603	4071
75°	2547	2878	3186
80°	1822	2027	2247
85°	1186	1186	1118



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.6	4.1
10°-20°	378.2	11.4
20°-30°	552.6	16.7
30°-40°	627.3	19.0
40°-50°	605.6	18.3
50°-60°	499.6	15.1
60°-70°	332.7	10.1
70°-80°	148.9	4.5
80°-90°	26.6	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°	1065.4	32.2
0°-40°	1692.7	51.2
0°-60°	2797.9	84.6
0°-90°	3306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3306.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1428	1428	1422	1414	1410	135
15°	1346	1349	1346	1340	1330	379
25°	1195	1205	1210	1201	1191	547
35°	961	974	1019	1024	1021	602
45°	744	757	782	817	822	574
55°	521	530	556	587	604	465
65°	305	314	332	356	376	303
75°	122	129	138	145	153	134
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1429.8	1429.8	1429.8	1429.8	1429.8
2.5°	1433.6	1434.2	1430.9	1422.1	1416.6
5°	1428.1	1427.6	1422.1	1414.4	1410.0
7.5°	1412.2	1413.3	1411.6	1400.6	1394.6
10°	1396.8	1397.4	1393.0	1384.2	1377.0
12.5°	1377.0	1376.5	1370.4	1366.0	1354.5
15°	1345.7	1349.0	1345.7	1339.7	1330.3
17.5°	1315.5	1315.5	1317.7	1307.3	1300.1
20°	1281.5	1283.1	1283.1	1274.9	1266.6
22.5°	1241.9	1246.9	1248.5	1239.7	1229.8
25°	1195.2	1204.6	1210.1	1201.3	1190.8
27.5°	1138.6	1152.9	1169.4	1162.8	1151.3
30°	1075.5	1096.4	1123.8	1118.3	1110.1
32.5°	1015.6	1036.5	1074.4	1072.2	1067.8
35°	961.2	974.4	1018.9	1024.4	1020.6
37.5°	909.6	921.7	963.4	976.1	972.8
40°	855.2	868.4	901.4	923.9	925.0
42.5°	801.4	814.0	840.9	873.3	873.3
45°	744.3	756.9	781.6	817.3	821.7
47.5°	688.2	701.4	725.6	761.3	768.4
50°	633.3	645.4	669.6	704.2	715.2
52.5°	576.2	589.4	613.0	644.8	660.8
55°	521.3	530.0	555.9	586.6	603.7
57.5°	464.1	472.4	501.5	527.9	545.4
60°	409.2	419.6	442.2	469.1	489.4
62.5°	356.5	367.5	386.7	410.3	433.4
65°	305.4	313.6	332.3	355.9	376.3
67.5°	256.0	263.1	281.8	298.3	319.7
70°	206.0	215.3	229.0	245.0	258.7
72.5°	165.9	169.7	181.3	192.8	207.1
75°	122.5	129.1	138.4	145.0	153.2
77.5°	87.9	91.7	97.2	102.7	110.4
80°	58.8	60.4	65.4	66.5	72.5
82.5°	35.7	36.8	37.9	38.4	40.6
85°	19.2	19.2	19.2	18.1	18.1
87.5°	11.0	11.0	9.3	7.7	5.5
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)