

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: P555887

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-93-97-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: P555887  
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-LD4-3LO-50-UNV-93-97-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

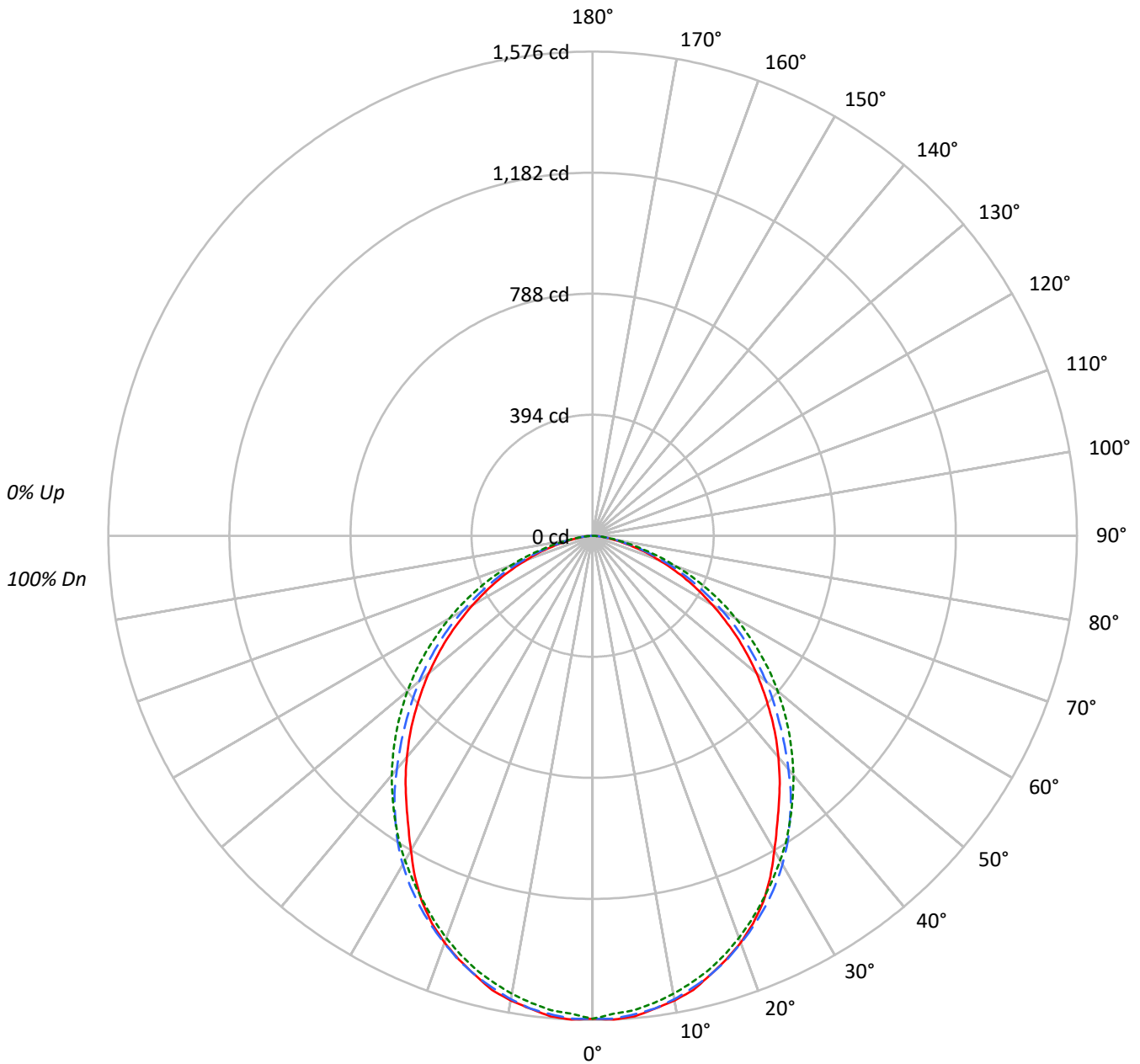
Lumens per Lamp: N/A  
Luminaire Lumens: 3635.0 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
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°	8460	8460	8460
5°	8483	8447	8376
10°	8393	8370	8275
15°	8244	8244	8150
20°	8070	8080	7976
25°	7804	7901	7775
30°	7349	7679	7585
35°	6944	7361	7372
40°	6606	6963	7145
45°	6228	6541	6877
50°	5830	6164	6584
55°	5377	5735	6228
60°	4843	5233	5792
65°	4276	4653	5268
70°	3564	3962	4477
75°	2801	3165	3504
80°	2002	2228	2470
85°	1303	1303	1229



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.0	4.1
10°-20°	415.8	11.4
20°-30°	607.6	16.7
30°-40°	689.7	19.0
40°-50°	665.8	18.3
50°-60°	549.3	15.1
60°-70°	365.8	10.1
70°-80°	163.7	4.5
80°-90°	29.3	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°	1171.5	32.2
0°-40°	1861.2	51.2
0°-60°	3076.3	84.6
0°-90°	3635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3635.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1570	1570	1564	1555	1550	149
15°	1480	1483	1480	1473	1463	417
25°	1314	1324	1330	1321	1309	602
35°	1057	1071	1120	1126	1122	662
45°	818	832	859	899	904	631
55°	573	583	611	645	664	512
65°	336	345	365	391	414	333
75°	135	142	152	159	168	147
85°	21	21	21	20	20	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1572.0	1572.0	1572.0	1572.0	1572.0
2.5°	1576.3	1576.9	1573.3	1563.6	1557.5
5°	1570.2	1569.6	1563.6	1555.1	1550.3
7.5°	1552.7	1553.9	1552.1	1540.0	1533.4
10°	1535.8	1536.4	1531.6	1521.9	1514.1
12.5°	1514.1	1513.5	1506.8	1502.0	1489.3
15°	1479.6	1483.3	1479.6	1473.0	1462.7
17.5°	1446.4	1446.4	1448.8	1437.4	1429.5
20°	1409.0	1410.8	1410.8	1401.7	1392.7
22.5°	1365.5	1370.9	1372.7	1363.1	1352.2
25°	1314.2	1324.4	1330.5	1320.8	1309.3
27.5°	1252.0	1267.7	1285.8	1278.5	1265.8
30°	1182.5	1205.5	1235.7	1229.6	1220.6
32.5°	1116.7	1139.6	1181.3	1178.9	1174.1
35°	1056.9	1071.4	1120.3	1126.3	1122.1
37.5°	1000.1	1013.4	1059.3	1073.2	1069.6
40°	940.3	954.8	991.1	1015.8	1017.0
42.5°	881.1	895.0	924.6	960.3	960.3
45°	818.3	832.2	859.4	898.7	903.5
47.5°	756.7	771.2	797.8	837.1	844.9
50°	696.3	709.6	736.2	774.2	786.3
52.5°	633.5	648.0	674.0	709.0	726.5
55°	573.1	582.8	611.2	645.0	663.7
57.5°	510.3	519.4	551.4	580.4	599.7
60°	449.9	461.4	486.2	515.8	538.1
62.5°	392.0	404.0	425.2	451.1	476.5
65°	335.8	344.8	365.4	391.4	413.7
67.5°	281.4	289.3	309.8	327.9	351.5
70°	226.5	236.7	251.8	269.4	284.5
72.5°	182.4	186.6	199.3	212.0	227.7
75°	134.7	141.9	152.2	159.4	168.5
77.5°	96.6	100.9	106.9	112.9	121.4
80°	64.6	66.4	71.9	73.1	79.7
82.5°	39.3	40.5	41.7	42.3	44.7
85°	21.1	21.1	21.1	19.9	19.9
87.5°	12.1	12.1	10.3	8.5	6.0
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)