

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: P555725

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-81-96-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: P555725  
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-35-UNV-81-96-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250  
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

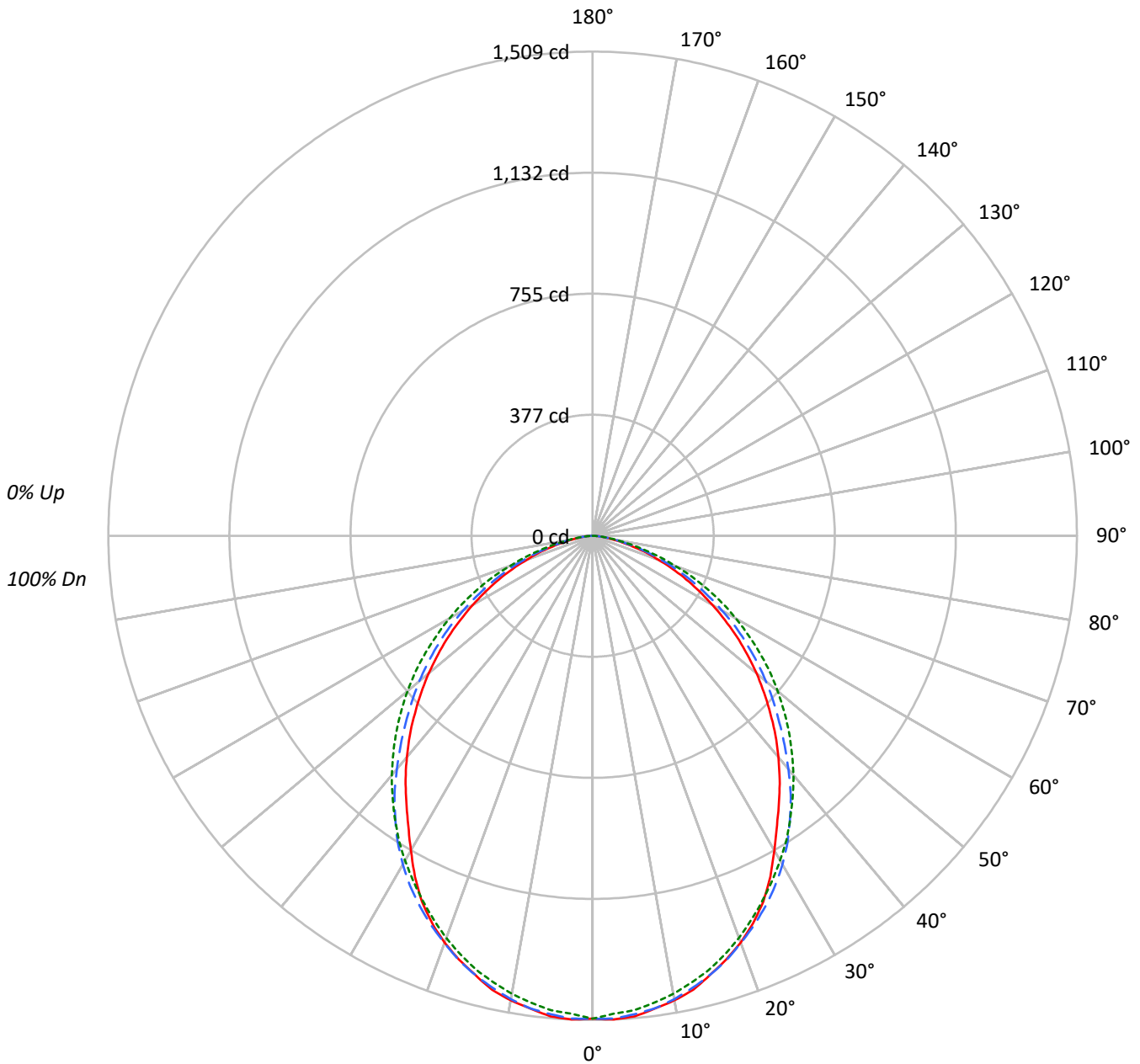
Lumens per Lamp: N/A  
Luminaire Lumens: 3480.0 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	8100	8100	8100
5°	8122	8087	8018
10°	8035	8013	7921
15°	7892	7892	7803
20°	7726	7735	7636
25°	7471	7564	7444
30°	7035	7352	7262
35°	6648	7046	7058
40°	6324	6666	6841
45°	5963	6263	6584
50°	5581	5901	6303
55°	5149	5490	5962
60°	4636	5010	5546
65°	4094	4455	5044
70°	3412	3794	4285
75°	2680	3030	3354
80°	1918	2132	2365
85°	1247	1247	1179



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.7	4.1
10°-20°	398.1	11.4
20°-30°	581.7	16.7
30°-40°	660.3	19.0
40°-50°	637.4	18.3
50°-60°	525.8	15.1
60°-70°	350.2	10.1
70°-80°	156.7	4.5
80°-90°	28.0	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°	1121.5	32.2
0°-40°	1781.8	51.2
0°-60°	2945.1	84.6
0°-90°	3480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3480.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1503	1503	1497	1489	1484	142
15°	1416	1420	1416	1410	1400	399
25°	1258	1268	1274	1264	1254	576
35°	1012	1026	1072	1078	1074	634
45°	783	797	823	860	865	604
55°	549	558	585	618	635	490
65°	322	330	350	375	396	319
75°	129	136	146	153	161	141
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°	1505.0	1505.0	1505.0	1505.0	1505.0
2.5°	1509.1	1509.6	1506.2	1496.9	1491.1
5°	1503.3	1502.7	1496.9	1488.8	1484.2
7.5°	1486.5	1487.7	1485.9	1474.4	1468.0
10°	1470.3	1470.9	1466.3	1457.0	1449.5
12.5°	1449.5	1448.9	1442.6	1437.9	1425.8
15°	1416.5	1420.0	1416.5	1410.2	1400.4
17.5°	1384.7	1384.7	1387.1	1376.1	1368.6
20°	1348.9	1350.6	1350.6	1342.0	1333.3
22.5°	1307.3	1312.5	1314.2	1305.0	1294.6
25°	1258.1	1268.0	1273.7	1264.5	1253.5
27.5°	1198.6	1213.6	1231.0	1224.0	1211.9
30°	1132.1	1154.1	1183.0	1177.2	1168.5
32.5°	1069.1	1091.0	1130.9	1128.6	1124.0
35°	1011.8	1025.7	1072.5	1078.3	1074.3
37.5°	957.5	970.2	1014.1	1027.4	1024.0
40°	900.2	914.1	948.8	972.5	973.7
42.5°	843.6	856.9	885.2	919.3	919.3
45°	783.4	796.7	822.8	860.3	865.0
47.5°	724.5	738.3	763.8	801.4	808.9
50°	666.6	679.4	704.8	741.2	752.8
52.5°	606.5	620.4	645.3	678.8	695.6
55°	548.7	557.9	585.1	617.5	635.4
57.5°	488.6	497.2	527.9	555.6	574.1
60°	430.7	441.7	465.4	493.8	515.2
62.5°	375.2	386.8	407.0	431.9	456.2
65°	321.5	330.1	349.8	374.7	396.1
67.5°	269.4	276.9	296.6	314.0	336.5
70°	216.8	226.6	241.1	257.9	272.3
72.5°	174.6	178.7	190.8	202.9	218.0
75°	128.9	135.9	145.7	152.6	161.3
77.5°	92.5	96.6	102.3	108.1	116.2
80°	61.9	63.6	68.8	70.0	76.3
82.5°	37.6	38.7	39.9	40.5	42.8
85°	20.2	20.2	20.2	19.1	19.1
87.5°	11.6	11.6	9.8	8.1	5.8
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)