

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: P555803

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-82-94-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: P555803  
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-40-UNV-82-94-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDES  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

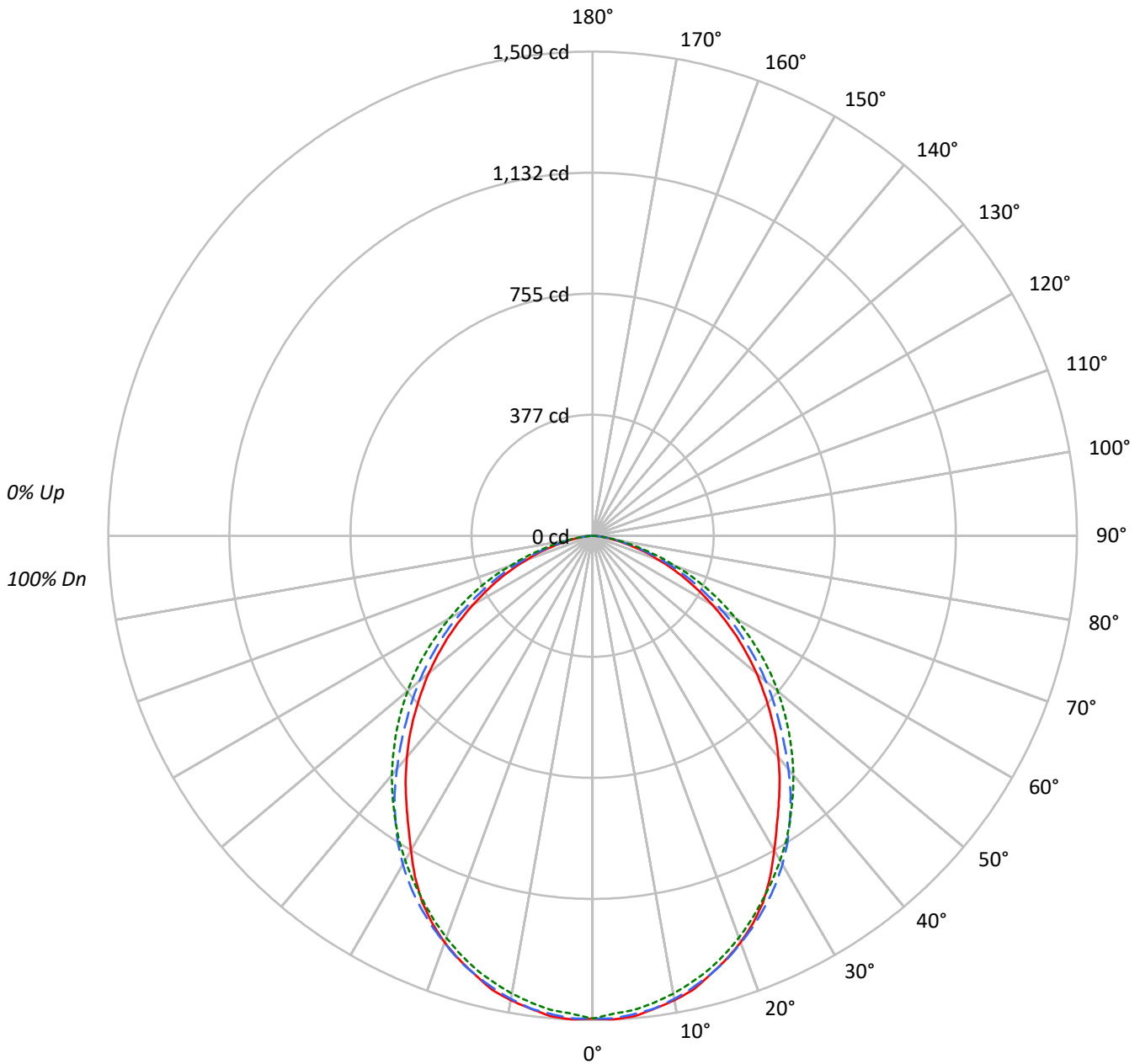
Lumens per Lamp: N/A  
Luminaire Lumens: 3479.0 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	8098	8098	8098
5°	8119	8085	8016
10°	8033	8011	7919
15°	7890	7890	7801
20°	7723	7733	7634
25°	7469	7562	7441
30°	7034	7349	7260
35°	6646	7045	7056
40°	6323	6664	6839
45°	5961	6260	6581
50°	5580	5900	6301
55°	5147	5489	5960
60°	4635	5008	5543
65°	4093	4453	5042
70°	3412	3792	4283
75°	2680	3030	3354
80°	1915	2132	2365
85°	1247	1247	1179



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.7	4.1
10°-20°	398.0	11.4
20°-30°	581.6	16.7
30°-40°	660.1	19.0
40°-50°	637.2	18.3
50°-60°	525.7	15.1
60°-70°	350.1	10.1
70°-80°	156.6	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°	1121.2	32.2
0°-40°	1781.3	51.2
0°-60°	2944.2	84.6
0°-90°	3479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3479.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1503	1502	1496	1488	1484	142
15°	1416	1420	1416	1410	1400	399
25°	1258	1268	1273	1264	1253	576
35°	1012	1025	1072	1078	1074	634
45°	783	796	822	860	865	604
55°	548	558	585	617	635	490
65°	321	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°	1504.6	1504.6	1504.6	1504.6	1504.6
2.5°	1508.6	1509.2	1505.7	1496.5	1490.7
5°	1502.8	1502.3	1496.5	1488.4	1483.8
7.5°	1486.1	1487.2	1485.5	1473.9	1467.6
10°	1469.9	1470.5	1465.9	1456.6	1449.1
12.5°	1449.1	1448.5	1442.2	1437.5	1425.4
15°	1416.1	1419.6	1416.1	1409.8	1400.0
17.5°	1384.4	1384.4	1386.7	1375.7	1368.2
20°	1348.5	1350.2	1350.2	1341.6	1332.9
22.5°	1306.9	1312.1	1313.8	1304.6	1294.2
25°	1257.8	1267.6	1273.4	1264.1	1253.1
27.5°	1198.2	1213.3	1230.6	1223.7	1211.5
30°	1131.8	1153.7	1182.6	1176.8	1168.2
32.5°	1068.8	1090.7	1130.6	1128.3	1123.7
35°	1011.5	1025.4	1072.2	1078.0	1074.0
37.5°	957.2	969.9	1013.8	1027.1	1023.7
40°	900.0	913.8	948.5	972.2	973.4
42.5°	843.3	856.6	884.9	919.0	919.0
45°	783.2	796.5	822.5	860.1	864.7
47.5°	724.3	738.1	763.6	801.1	808.6
50°	666.5	679.2	704.6	741.0	752.6
52.5°	606.3	620.2	645.1	678.6	695.4
55°	548.5	557.8	585.0	617.3	635.2
57.5°	488.4	497.1	527.7	555.5	574.0
60°	430.6	441.6	465.3	493.6	515.0
62.5°	375.1	386.7	406.9	431.8	456.1
65°	321.4	330.0	349.7	374.6	395.9
67.5°	269.4	276.9	296.5	313.9	336.4
70°	216.8	226.6	241.0	257.8	272.2
72.5°	174.6	178.6	190.7	202.9	217.9
75°	128.9	135.8	145.7	152.6	161.3
77.5°	92.5	96.5	102.3	108.1	116.2
80°	61.8	63.6	68.8	69.9	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)