

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: P554687

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-80-97-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: P554687  
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-80-97-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

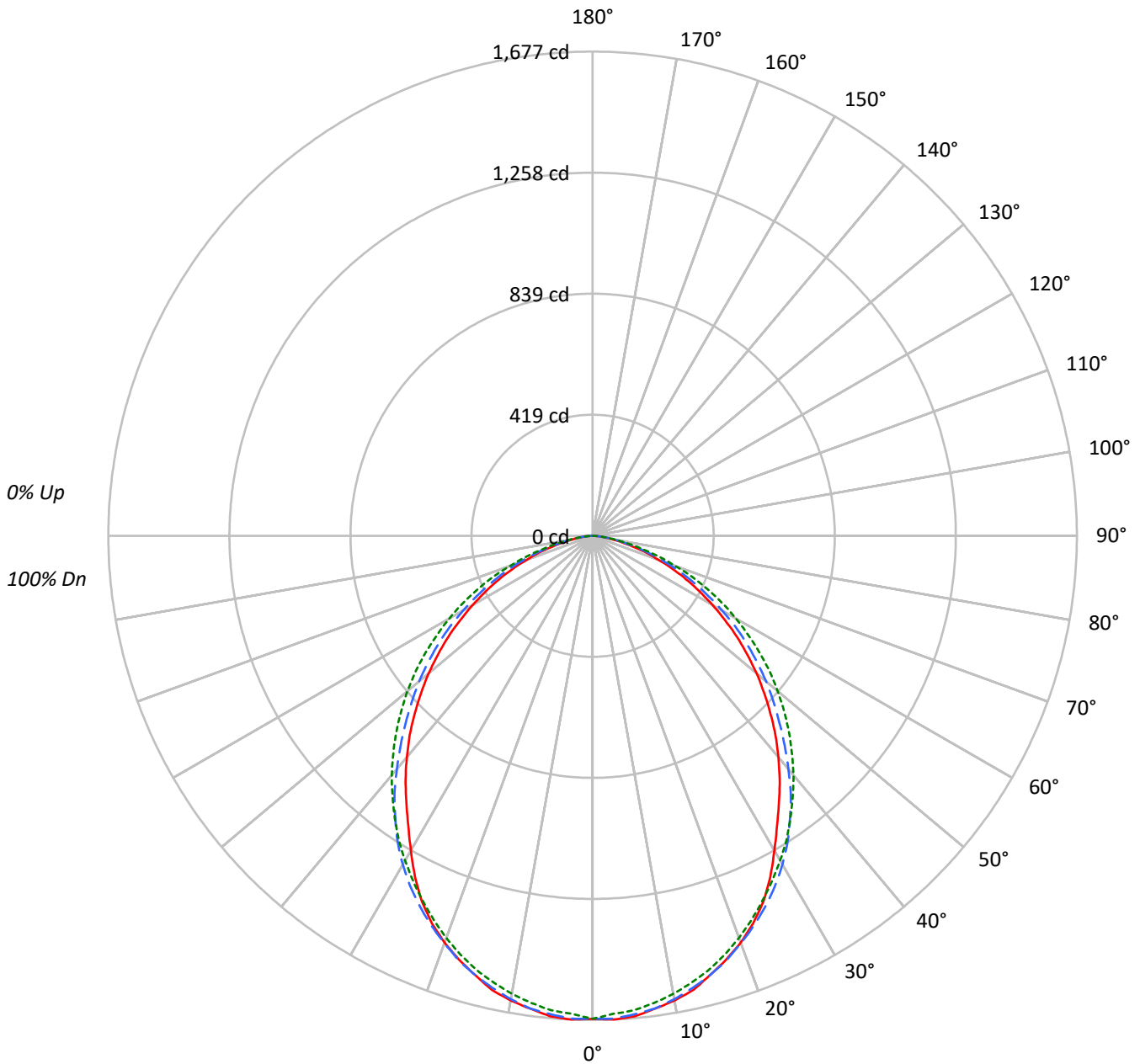
Lumens per Lamp: N/A  
Luminaire Lumens: 3868.0 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
Input Voltage (V): NR  
Input Current (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°	9003	9003	9003
5°	9027	8989	8913
10°	8931	8907	8805
15°	8773	8773	8673
20°	8587	8598	8487
25°	8304	8407	8274
30°	7820	8172	8071
35°	7389	7832	7845
40°	7030	7409	7603
45°	6628	6960	7317
50°	6204	6559	7006
55°	5723	6103	6627
60°	5154	5568	6163
65°	4550	4951	5606
70°	3792	4217	4763
75°	2980	3367	3728
80°	2132	2371	2628
85°	1389	1389	1309



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.5	4.1
10°-20°	442.5	11.4
20°-30°	646.6	16.7
30°-40°	733.9	19.0
40°-50°	708.5	18.3
50°-60°	584.5	15.1
60°-70°	389.2	10.1
70°-80°	174.2	4.5
80°-90°	31.2	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°	1246.5	32.2
0°-40°	1980.5	51.2
0°-60°	3273.5	84.6
0°-90°	3868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3868.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1673	1673	1673	1673	1673	
5°	1671	1670	1664	1655	1650	158
15°	1574	1578	1574	1567	1556	444
25°	1398	1409	1416	1406	1393	640
35°	1125	1140	1192	1198	1194	705
45°	871	886	914	956	961	672
55°	610	620	650	686	706	544
65°	357	367	389	416	440	354
75°	143	151	162	170	179	157
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1672.8	1672.8	1672.8	1672.8	1672.8
2.5°	1677.3	1678.0	1674.1	1663.8	1657.4
5°	1670.9	1670.2	1663.8	1654.8	1649.7
7.5°	1652.2	1653.5	1651.6	1638.7	1631.7
10°	1634.3	1634.9	1629.8	1619.5	1611.1
12.5°	1611.1	1610.5	1603.4	1598.3	1584.8
15°	1574.5	1578.3	1574.5	1567.4	1556.5
17.5°	1539.1	1539.1	1541.7	1529.5	1521.1
20°	1499.3	1501.2	1501.2	1491.6	1481.9
22.5°	1453.0	1458.8	1460.7	1450.5	1438.9
25°	1398.4	1409.3	1415.8	1405.5	1393.3
27.5°	1332.2	1348.9	1368.2	1360.5	1347.0
30°	1258.3	1282.7	1314.9	1308.4	1298.8
32.5°	1188.3	1212.7	1257.0	1254.4	1249.3
35°	1124.6	1140.1	1192.1	1198.5	1194.0
37.5°	1064.2	1078.4	1127.2	1142.0	1138.1
40°	1000.6	1016.0	1054.6	1080.9	1082.2
42.5°	937.6	952.4	983.9	1021.8	1021.8
45°	870.8	885.6	914.5	956.3	961.4
47.5°	805.2	820.7	848.9	890.7	899.1
50°	741.0	755.1	783.4	823.9	836.7
52.5°	674.1	689.6	717.2	754.5	773.1
55°	609.9	620.2	650.4	686.3	706.3
57.5°	543.0	552.7	586.7	617.6	638.1
60°	478.8	491.0	517.3	548.8	572.6
62.5°	417.1	429.9	452.4	480.1	507.0
65°	357.3	367.0	388.8	416.4	440.2
67.5°	299.5	307.8	329.7	349.0	374.0
70°	241.0	251.9	268.0	286.6	302.7
72.5°	194.1	198.6	212.1	225.6	242.3
75°	143.3	151.0	161.9	169.7	179.3
77.5°	102.8	107.3	113.7	120.2	129.2
80°	68.8	70.7	76.5	77.8	84.8
82.5°	41.8	43.1	44.3	45.0	47.6
85°	22.5	22.5	22.5	21.2	21.2
87.5°	12.9	12.9	10.9	9.0	6.4
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)