

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: P555443

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-80-85-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: P555443  
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-LD4-3HI-35-UNV-80-85-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

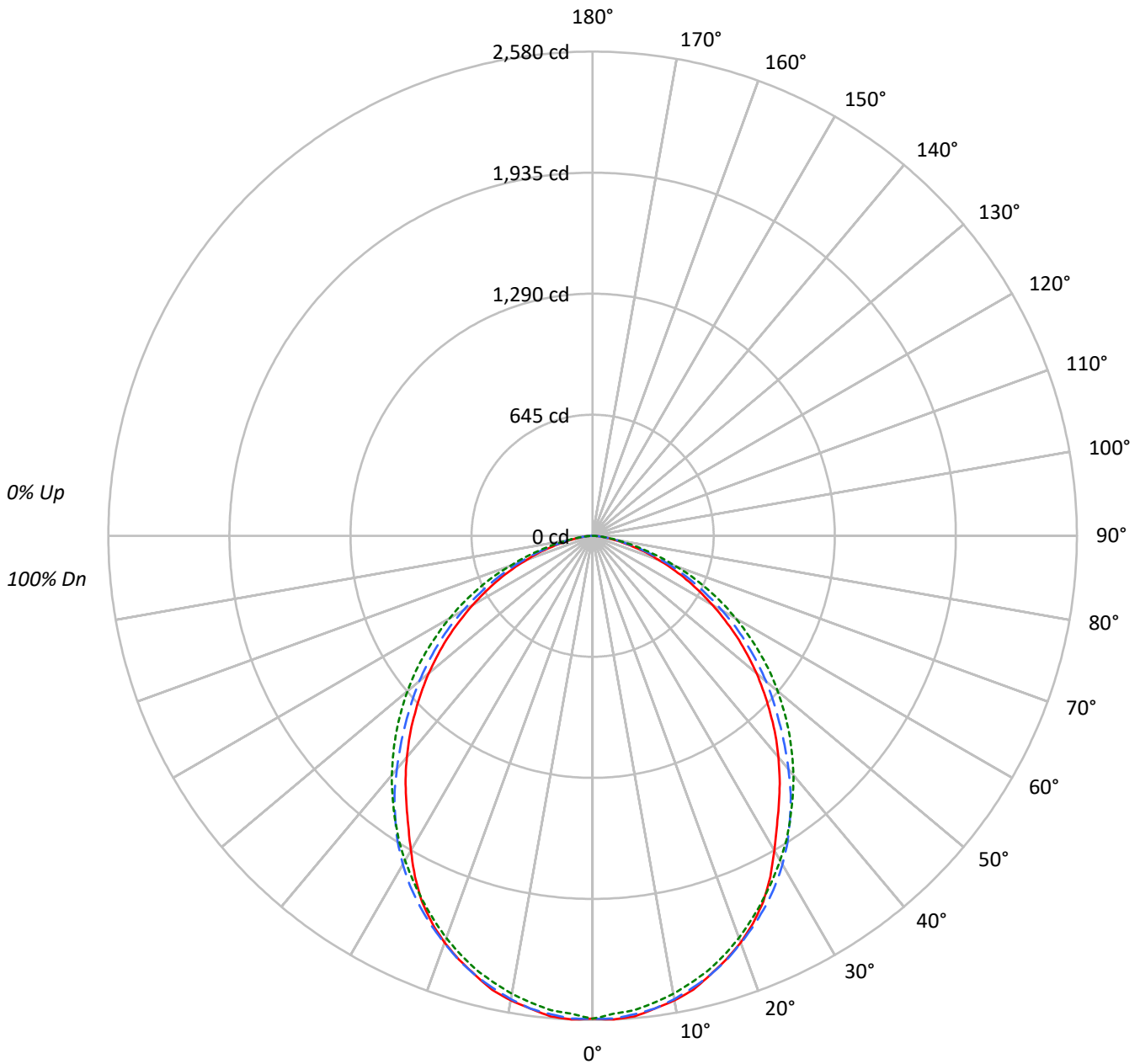
Lumens per Lamp: N/A  
Luminaire Lumens: 5950.0 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.8  
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°	13849	13849	13849
5°	13886	13827	13709
10°	13738	13701	13544
15°	13495	13495	13341
20°	13209	13226	13056
25°	12774	12933	12727
30°	12029	12570	12416
35°	11366	12048	12067
40°	10814	11397	11696
45°	10195	10707	11256
50°	9543	10090	10777
55°	8802	9387	10194
60°	7928	8566	9481
65°	6999	7617	8624
70°	5833	6486	7327
75°	4583	5180	5735
80°	3279	3645	4045
85°	2137	2137	2013



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.3	4.1
10°-20°	680.6	11.4
20°-30°	994.6	16.7
30°-40°	1129.0	19.0
40°-50°	1089.9	18.3
50°-60°	899.1	15.1
60°-70°	598.7	10.1
70°-80°	267.9	4.5
80°-90°	47.9	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°	1917.5	32.2
0°-40°	3046.5	51.2
0°-60°	5035.5	84.6
0°-90°	5950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5950.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2573	2573	2573	2573	2573	
5°	2570	2569	2559	2546	2538	243
15°	2422	2428	2422	2411	2394	683
25°	2151	2168	2178	2162	2143	985
35°	1730	1754	1834	1844	1837	1084
45°	1340	1362	1407	1471	1479	1034
55°	938	954	1000	1056	1086	837
65°	550	564	598	641	677	545
75°	220	232	249	261	276	241
85°	35	35	35	33	33	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2573.2	2573.2	2573.2	2573.2	2573.2
2.5°	2580.1	2581.1	2575.2	2559.4	2549.5
5°	2570.3	2569.3	2559.4	2545.5	2537.6
7.5°	2541.6	2543.6	2540.6	2520.8	2510.0
10°	2513.9	2514.9	2507.0	2491.2	2478.3
12.5°	2478.3	2477.3	2466.5	2458.5	2437.8
15°	2422.0	2427.9	2422.0	2411.1	2394.3
17.5°	2367.6	2367.6	2371.6	2352.8	2339.9
20°	2306.3	2309.3	2309.3	2294.4	2279.6
22.5°	2235.1	2244.0	2247.0	2231.2	2213.4
25°	2151.1	2167.9	2177.8	2162.0	2143.2
27.5°	2049.3	2075.0	2104.6	2092.8	2072.0
30°	1935.6	1973.2	2022.6	2012.7	1997.9
32.5°	1827.8	1865.4	1933.6	1929.7	1921.8
35°	1730.0	1753.7	1833.8	1843.7	1836.7
37.5°	1637.1	1658.8	1733.9	1756.7	1750.7
40°	1539.2	1562.9	1622.2	1662.8	1664.7
42.5°	1442.3	1465.0	1513.5	1571.8	1571.8
45°	1339.5	1362.2	1406.7	1471.0	1478.9
47.5°	1238.7	1262.4	1305.9	1370.1	1383.0
50°	1139.8	1161.6	1205.1	1267.3	1287.1
52.5°	1037.0	1060.7	1103.2	1160.6	1189.2
55°	938.1	954.0	1000.4	1055.8	1086.4
57.5°	835.3	850.2	902.6	950.0	981.6
60°	736.5	755.3	795.8	844.2	880.8
62.5°	641.6	661.3	695.9	738.5	780.0
65°	549.6	564.5	598.1	640.6	677.2
67.5°	460.7	473.5	507.1	536.8	575.3
70°	370.7	387.5	412.2	440.9	465.6
72.5°	298.5	305.5	326.2	347.0	372.7
75°	220.4	232.3	249.1	261.0	275.8
77.5°	158.2	165.1	175.0	184.9	198.7
80°	105.8	108.7	117.6	119.6	130.5
82.5°	64.3	66.2	68.2	69.2	73.2
85°	34.6	34.6	34.6	32.6	32.6
87.5°	19.8	19.8	16.8	13.8	9.9
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)