

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: P555953

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-80-84-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: P555953  
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-LD4-3STD-35-UNV-80-84-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

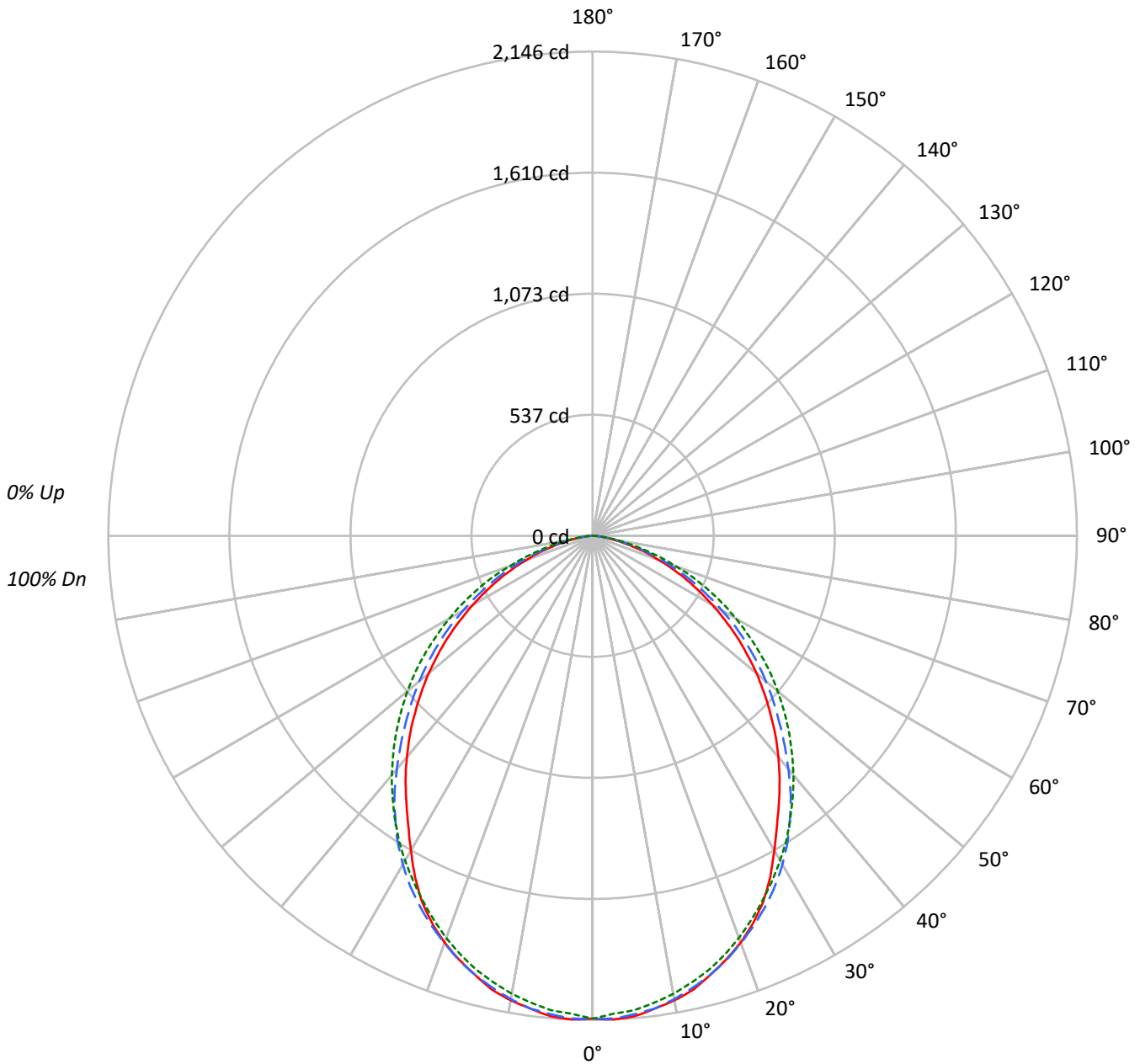
Lumens per Lamp: N/A  
Luminaire Lumens: 4949.0 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
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°	11519	11519	11519
5°	11549	11501	11403
10°	11427	11396	11266
15°	11224	11224	11096
20°	10987	11001	10860
25°	10625	10757	10586
30°	10005	10455	10327
35°	9454	10021	10037
40°	8994	9480	9728
45°	8480	8906	9363
50°	7938	8392	8964
55°	7322	7808	8480
60°	6594	7125	7886
65°	5822	6336	7172
70°	4851	5396	6094
75°	3814	4309	4770
80°	2727	3031	3363
85°	1778	1778	1673



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.5	4.1
10°-20°	566.1	11.4
20°-30°	827.3	16.7
30°-40°	939.1	19.0
40°-50°	906.5	18.3
50°-60°	747.8	15.1
60°-70°	498.0	10.1
70°-80°	222.8	4.5
80°-90°	39.9	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°	1594.9	32.2
0°-40°	2534.0	51.2
0°-60°	4188.3	84.6
0°-90°	4949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4949.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2140	2140	2140	2140	2140	
5°	2138	2137	2129	2117	2111	202
15°	2014	2019	2014	2006	1992	568
25°	1789	1803	1811	1798	1783	819
35°	1439	1459	1525	1534	1528	902
45°	1114	1133	1170	1224	1230	860
55°	780	794	832	878	904	696
65°	457	470	498	533	563	453
75°	183	193	207	217	229	201
85°	29	29	29	27	27	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2140.3	2140.3	2140.3	2140.3	2140.3
2.5°	2146.1	2146.9	2142.0	2128.8	2120.6
5°	2137.8	2137.0	2128.8	2117.3	2110.7
7.5°	2114.0	2115.6	2113.2	2096.7	2087.7
10°	2091.0	2091.8	2085.2	2072.1	2061.4
12.5°	2061.4	2060.6	2051.5	2044.9	2027.7
15°	2014.5	2019.4	2014.5	2005.5	1991.5
17.5°	1969.3	1969.3	1972.6	1957.0	1946.3
20°	1918.3	1920.8	1920.8	1908.4	1896.1
22.5°	1859.1	1866.5	1869.0	1855.8	1841.0
25°	1789.2	1803.2	1811.4	1798.3	1782.6
27.5°	1704.5	1725.9	1750.6	1740.7	1723.4
30°	1610.0	1641.2	1682.3	1674.1	1661.8
32.5°	1520.3	1551.6	1608.3	1605.0	1598.5
35°	1438.9	1458.7	1525.3	1533.5	1527.7
37.5°	1361.6	1379.7	1442.2	1461.1	1456.2
40°	1280.2	1300.0	1349.3	1383.0	1384.7
42.5°	1199.7	1218.6	1258.9	1307.4	1307.4
45°	1114.1	1133.1	1170.1	1223.5	1230.1
47.5°	1030.3	1050.0	1086.2	1139.6	1150.3
50°	948.1	966.1	1002.3	1054.1	1070.6
52.5°	862.5	882.3	917.6	965.3	989.2
55°	780.3	793.5	832.1	878.2	903.7
57.5°	694.8	707.1	750.7	790.2	816.5
60°	612.6	628.2	661.9	702.2	732.6
62.5°	533.6	550.1	578.9	614.2	648.8
65°	457.2	469.5	497.5	532.8	563.2
67.5°	383.2	393.9	421.8	446.5	478.5
70°	308.3	322.3	342.9	366.7	387.3
72.5°	248.3	254.1	271.3	288.6	310.0
75°	183.4	193.2	207.2	217.1	229.4
77.5°	131.6	137.3	145.5	153.8	165.3
80°	88.0	90.4	97.8	99.5	108.5
82.5°	53.4	55.1	56.7	57.6	60.8
85°	28.8	28.8	28.8	27.1	27.1
87.5°	16.4	16.4	14.0	11.5	8.2
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)