

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: P555388

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-80-96-EDD-90**

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: P555388  
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-30-UNV-80-96-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND  
3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

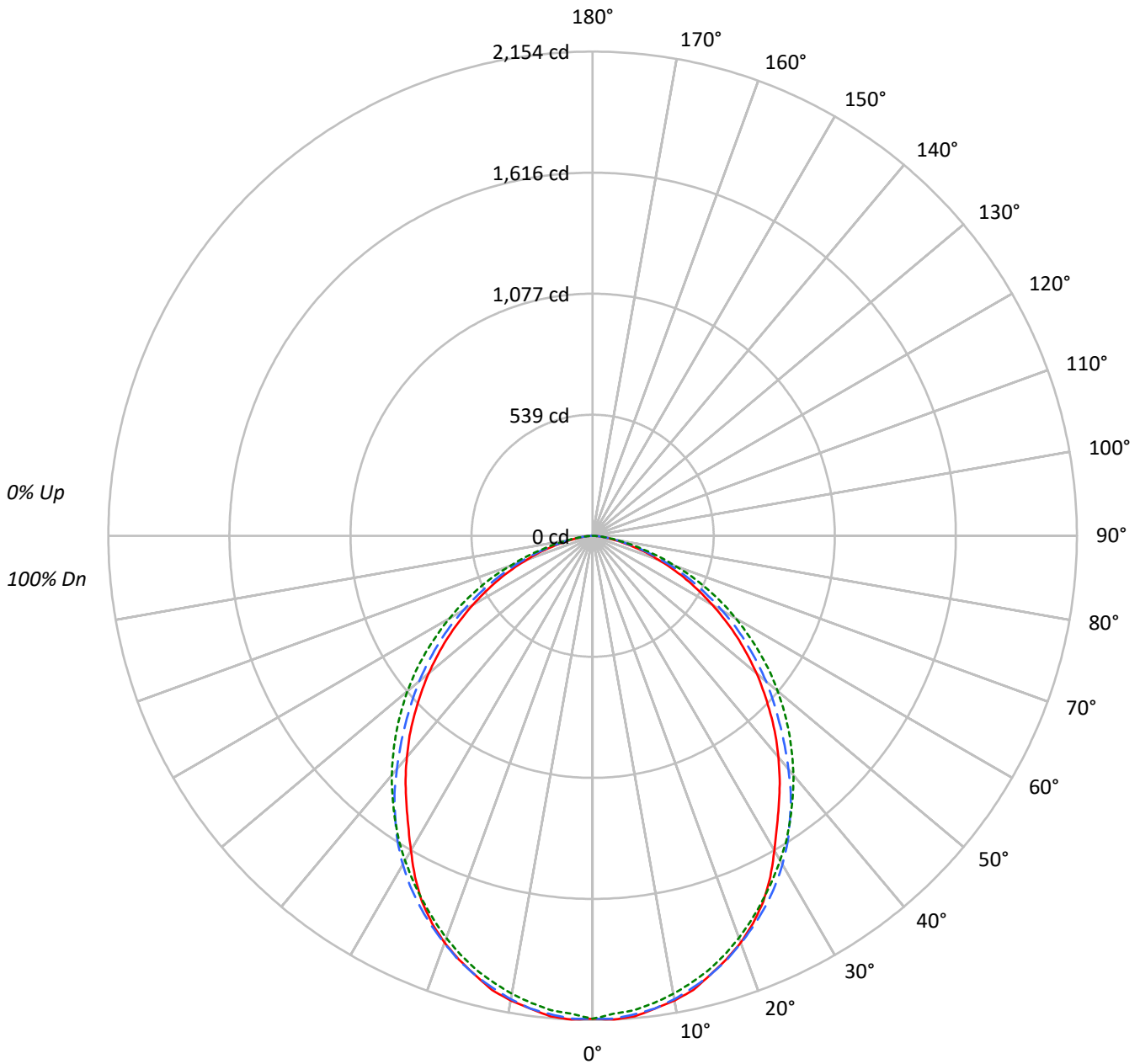
Lumens per Lamp: N/A  
Luminaire Lumens: 4968.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.8  
Input Voltage (V): NR  
Input Current (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°	11563	11563	11563
5°	11594	11545	11447
10°	11471	11439	11309
15°	11267	11267	11139
20°	11029	11043	10901
25°	10666	10798	10627
30°	10043	10495	10366
35°	9491	10060	10076
40°	9029	9516	9766
45°	8512	8940	9398
50°	7968	8425	8998
55°	7350	7838	8511
60°	6619	7153	7916
65°	5844	6360	7200
70°	4870	5416	6118
75°	3828	4325	4789
80°	2737	3044	3378
85°	1785	1785	1680



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.3	4.1
10°-20°	568.3	11.4
20°-30°	830.5	16.7
30°-40°	942.7	19.0
40°-50°	910.0	18.3
50°-60°	750.7	15.1
60°-70°	499.9	10.1
70°-80°	223.7	4.5
80°-90°	40.0	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°	1601.0	32.2
0°-40°	2543.7	51.2
0°-60°	4204.4	84.6
0°-90°	4968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4968.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2148	2148	2148	2148	2148	
5°	2146	2145	2137	2125	2119	203
15°	2022	2027	2022	2013	1999	570
25°	1796	1810	1818	1805	1790	823
35°	1444	1464	1531	1539	1534	905
45°	1118	1137	1175	1228	1235	863
55°	783	796	835	882	907	699
65°	459	471	499	535	565	455
75°	184	194	208	218	230	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°	2148.5	2148.5	2148.5	2148.5	2148.5
2.5°	2154.3	2155.1	2150.2	2137.0	2128.7
5°	2146.1	2145.2	2137.0	2125.4	2118.8
7.5°	2122.1	2123.8	2121.3	2104.8	2095.7
10°	2099.0	2099.8	2093.2	2080.0	2069.3
12.5°	2069.3	2068.5	2059.4	2052.8	2035.5
15°	2022.2	2027.2	2022.2	2013.2	1999.1
17.5°	1976.8	1976.8	1980.1	1964.5	1953.7
20°	1925.7	1928.1	1928.1	1915.8	1903.4
22.5°	1866.2	1873.7	1876.1	1862.9	1848.1
25°	1796.1	1810.1	1818.4	1805.2	1789.5
27.5°	1711.1	1732.5	1757.3	1747.4	1730.1
30°	1616.1	1647.5	1688.8	1680.5	1668.1
32.5°	1526.2	1557.5	1614.5	1611.2	1604.6
35°	1444.5	1464.3	1531.1	1539.4	1533.6
37.5°	1366.9	1385.0	1447.8	1466.7	1461.8
40°	1285.2	1305.0	1354.5	1388.3	1390.0
42.5°	1204.3	1223.3	1263.7	1312.4	1312.4
45°	1118.4	1137.4	1174.6	1228.2	1234.8
47.5°	1034.2	1054.0	1090.4	1144.0	1154.7
50°	951.7	969.9	1006.2	1058.2	1074.7
52.5°	865.9	885.7	921.2	969.0	993.0
55°	783.3	796.5	835.3	881.5	907.1
57.5°	697.5	709.8	753.6	793.2	819.6
60°	614.9	630.6	664.5	704.9	735.4
62.5°	535.7	552.2	581.1	616.6	651.2
65°	458.9	471.3	499.4	534.9	565.4
67.5°	384.6	395.4	423.4	448.2	480.4
70°	309.5	323.6	344.2	368.1	388.8
72.5°	249.3	255.1	272.4	289.7	311.2
75°	184.1	194.0	208.0	217.9	230.3
77.5°	132.1	137.8	146.1	154.4	165.9
80°	88.3	90.8	98.2	99.9	109.0
82.5°	53.7	55.3	57.0	57.8	61.1
85°	28.9	28.9	28.9	27.2	27.2
87.5°	16.5	16.5	14.0	11.6	8.3
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)