

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: P555434

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-93-94-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: P555434  
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-93-94-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

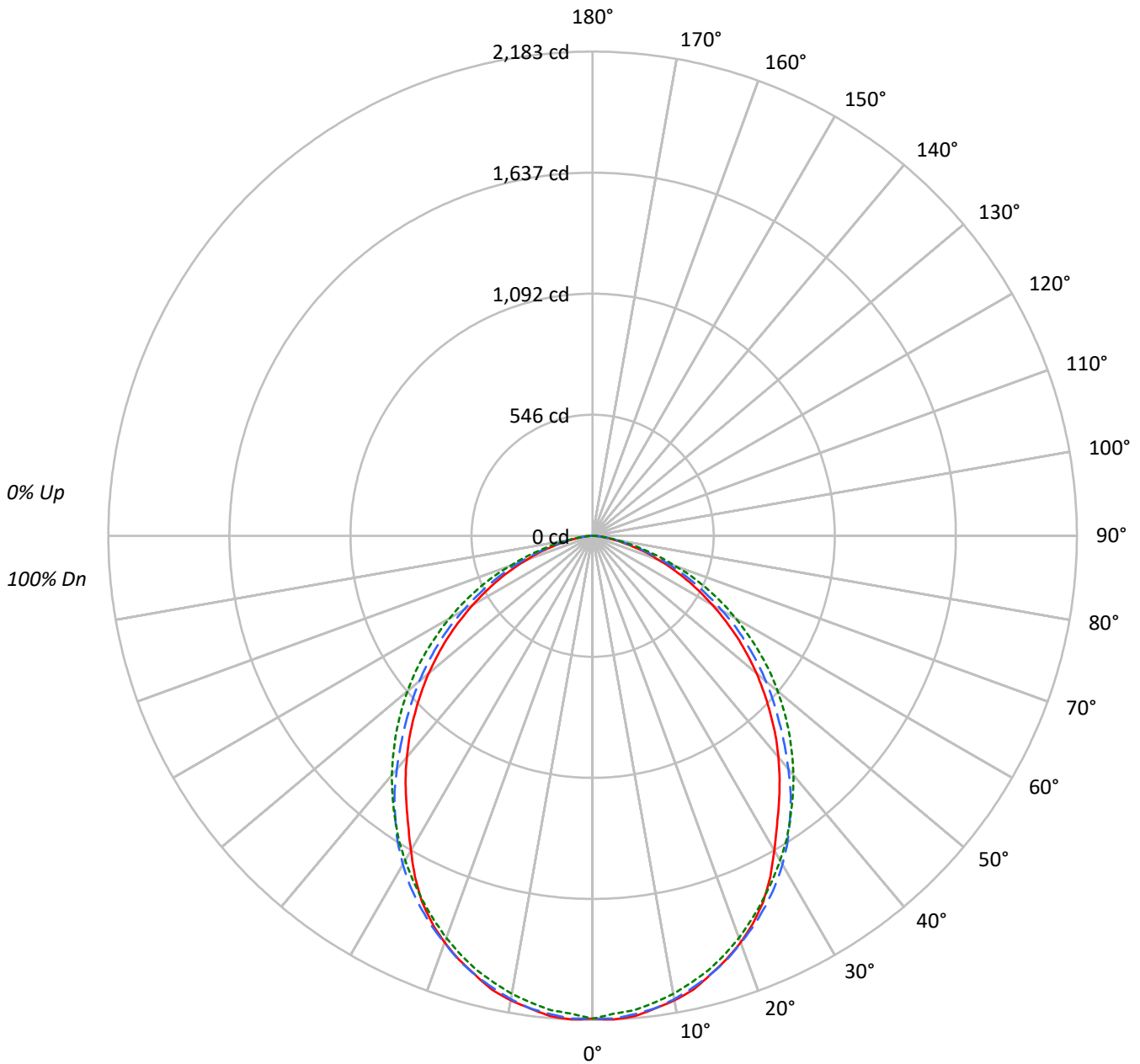
Lumens per Lamp: N/A  
Luminaire Lumens: 5034.0 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P555434

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-93-94-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P555434

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-93-94-EDD-90

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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°	11717	11717	11717
5°	11748	11699	11599
10°	11623	11591	11459
15°	11417	11417	11287
20°	11176	11190	11046
25°	10807	10941	10768
30°	10177	10634	10504
35°	9617	10194	10210
40°	9149	9643	9895
45°	8626	9059	9523
50°	8074	8536	9118
55°	7447	7942	8625
60°	6707	7247	8021
65°	5922	6444	7296
70°	4935	5489	6198
75°	3878	4383	4851
80°	2774	3084	3422
85°	1809	1809	1704



TEST NUMBER: P555434

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-93-94-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.0	4.1
10°-20°	575.8	11.4
20°-30°	841.5	16.7
30°-40°	955.2	19.0
40°-50°	922.1	18.3
50°-60°	760.7	15.1
60°-70°	506.5	10.1
70°-80°	226.7	4.5
80°-90°	40.5	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°	1622.3	32.2
0°-40°	2577.5	51.2
0°-60°	4260.2	84.6
0°-90°	5034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5034.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2177	2177	2177	2177	2177	
5°	2175	2174	2165	2154	2147	206
15°	2049	2054	2049	2040	2026	578
25°	1820	1834	1842	1829	1813	833
35°	1464	1484	1552	1560	1554	917
45°	1133	1152	1190	1244	1251	874
55°	794	807	846	893	919	708
65°	465	478	506	542	573	461
75°	186	196	211	221	233	204
85°	29	29	29	28	28	39
90°	0	0	0	0	0	



TEST NUMBER: P555434

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-93-94-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2177.1	2177.1	2177.1	2177.1	2177.1
2.5°	2182.9	2183.8	2178.7	2165.4	2157.0
5°	2174.6	2173.7	2165.4	2153.7	2147.0
7.5°	2150.3	2152.0	2149.5	2132.7	2123.5
10°	2126.9	2127.7	2121.0	2107.7	2096.8
12.5°	2096.8	2095.9	2086.7	2080.1	2062.5
15°	2049.1	2054.1	2049.1	2039.9	2025.7
17.5°	2003.1	2003.1	2006.5	1990.6	1979.7
20°	1951.3	1953.8	1953.8	1941.2	1928.7
22.5°	1891.0	1898.6	1901.1	1887.7	1872.6
25°	1819.9	1834.2	1842.5	1829.1	1813.3
27.5°	1733.8	1755.5	1780.6	1770.6	1753.0
30°	1637.6	1669.4	1711.2	1702.9	1690.3
32.5°	1546.5	1578.2	1635.9	1632.6	1625.9
35°	1463.7	1483.7	1551.5	1559.8	1554.0
37.5°	1385.0	1403.4	1467.0	1486.2	1481.2
40°	1302.2	1322.3	1372.5	1406.8	1408.4
42.5°	1220.3	1239.5	1280.5	1329.8	1329.8
45°	1133.3	1152.5	1190.2	1244.5	1251.2
47.5°	1048.0	1068.0	1104.8	1159.2	1170.1
50°	964.3	982.7	1019.5	1072.2	1089.0
52.5°	877.4	897.4	933.4	981.9	1006.2
55°	793.7	807.1	846.4	893.2	919.2
57.5°	706.7	719.3	763.6	803.8	830.5
60°	623.1	639.0	673.3	714.3	745.2
62.5°	542.8	559.5	588.8	624.8	659.9
65°	465.0	477.6	506.0	542.0	572.9
67.5°	389.7	400.6	429.1	454.1	486.8
70°	313.6	327.9	348.8	373.0	393.9
72.5°	252.6	258.4	276.0	293.6	315.3
75°	186.5	196.5	210.8	220.8	233.3
77.5°	133.8	139.7	148.0	156.4	168.1
80°	89.5	92.0	99.5	101.2	110.4
82.5°	54.4	56.0	57.7	58.5	61.9
85°	29.3	29.3	29.3	27.6	27.6
87.5°	16.7	16.7	14.2	11.7	8.4
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)