

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: P555899

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-80-94-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: P555899  
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-30-UNV-80-94-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND  
3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

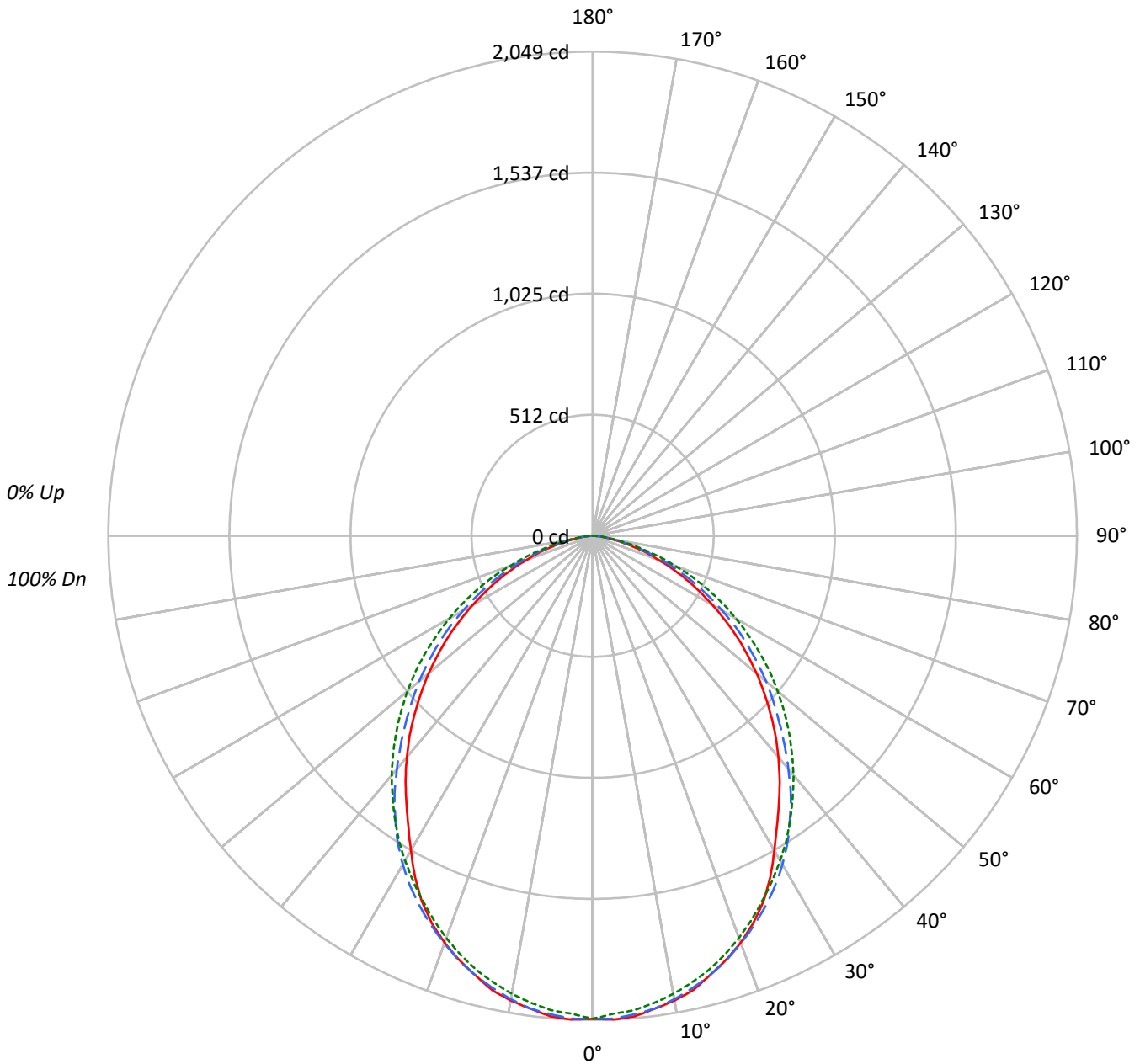
Lumens per Lamp: N/A  
Luminaire Lumens: 4726.0 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
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°	11000	11000	11000
5°	11029	10983	10889
10°	10912	10882	10758
15°	10718	10718	10596
20°	10492	10505	10371
25°	10146	10272	10109
30°	9554	9984	9862
35°	9028	9569	9585
40°	8590	9053	9290
45°	8098	8504	8941
50°	7580	8014	8560
55°	6992	7456	8097
60°	6297	6804	7530
65°	5560	6049	6850
70°	4633	5152	5819
75°	3641	4115	4556
80°	2603	2895	3211
85°	1698	1698	1599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.4	4.1
10°-20°	540.6	11.4
20°-30°	790.0	16.7
30°-40°	896.7	19.0
40°-50°	865.7	18.3
50°-60°	714.1	15.1
60°-70°	475.5	10.1
70°-80°	212.8	4.5
80°-90°	38.1	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°	1523.1	32.2
0°-40°	2419.8	51.2
0°-60°	3999.6	84.6
0°-90°	4726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4726.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2044	2044	2044	2044	2044	
5°	2042	2041	2033	2022	2016	193
15°	1924	1928	1924	1915	1902	542
25°	1709	1722	1730	1717	1702	782
35°	1374	1393	1456	1464	1459	861
45°	1064	1082	1117	1168	1175	821
55°	745	758	795	839	863	665
65°	437	448	475	509	538	433
75°	175	184	198	207	219	191
85°	28	28	28	26	26	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2043.9	2043.9	2043.9	2043.9	2043.9
2.5°	2049.4	2050.2	2045.4	2032.9	2025.0
5°	2041.5	2040.7	2032.9	2021.9	2015.6
7.5°	2018.7	2020.3	2018.0	2002.3	1993.6
10°	1996.8	1997.5	1991.3	1978.7	1968.5
12.5°	1968.5	1967.7	1959.1	1952.8	1936.3
15°	1923.7	1928.4	1923.7	1915.1	1901.8
17.5°	1880.6	1880.6	1883.7	1868.8	1858.6
20°	1831.9	1834.2	1834.2	1822.4	1810.7
22.5°	1775.3	1782.4	1784.8	1772.2	1758.1
25°	1708.6	1721.9	1729.8	1717.2	1702.3
27.5°	1627.7	1648.1	1671.7	1662.3	1645.8
30°	1537.4	1567.3	1606.5	1598.7	1586.9
32.5°	1451.8	1481.7	1535.8	1532.7	1526.4
35°	1374.1	1392.9	1456.5	1464.4	1458.9
37.5°	1300.3	1317.6	1377.2	1395.3	1390.6
40°	1222.6	1241.4	1288.5	1320.7	1322.3
42.5°	1145.6	1163.7	1202.1	1248.5	1248.5
45°	1063.9	1082.0	1117.3	1168.4	1174.7
47.5°	983.9	1002.7	1037.2	1088.3	1098.5
50°	905.3	922.6	957.2	1006.6	1022.3
52.5°	823.7	842.5	876.3	921.8	944.6
55°	745.2	757.7	794.6	838.6	862.9
57.5°	663.5	675.3	716.9	754.6	779.7
60°	585.0	599.9	632.1	670.6	699.6
62.5°	509.6	525.3	552.8	586.5	619.5
65°	436.6	448.3	475.0	508.8	537.9
67.5°	365.9	376.1	402.8	426.4	457.0
70°	294.4	307.8	327.4	350.2	369.8
72.5°	237.1	242.6	259.1	275.6	296.0
75°	175.1	184.5	197.9	207.3	219.1
77.5°	125.6	131.1	139.0	146.8	157.8
80°	84.0	86.4	93.4	95.0	103.6
82.5°	51.0	52.6	54.2	55.0	58.1
85°	27.5	27.5	27.5	25.9	25.9
87.5°	15.7	15.7	13.3	11.0	7.9
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)