

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: P555382

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-80-87-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: P555382  
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-80-87-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

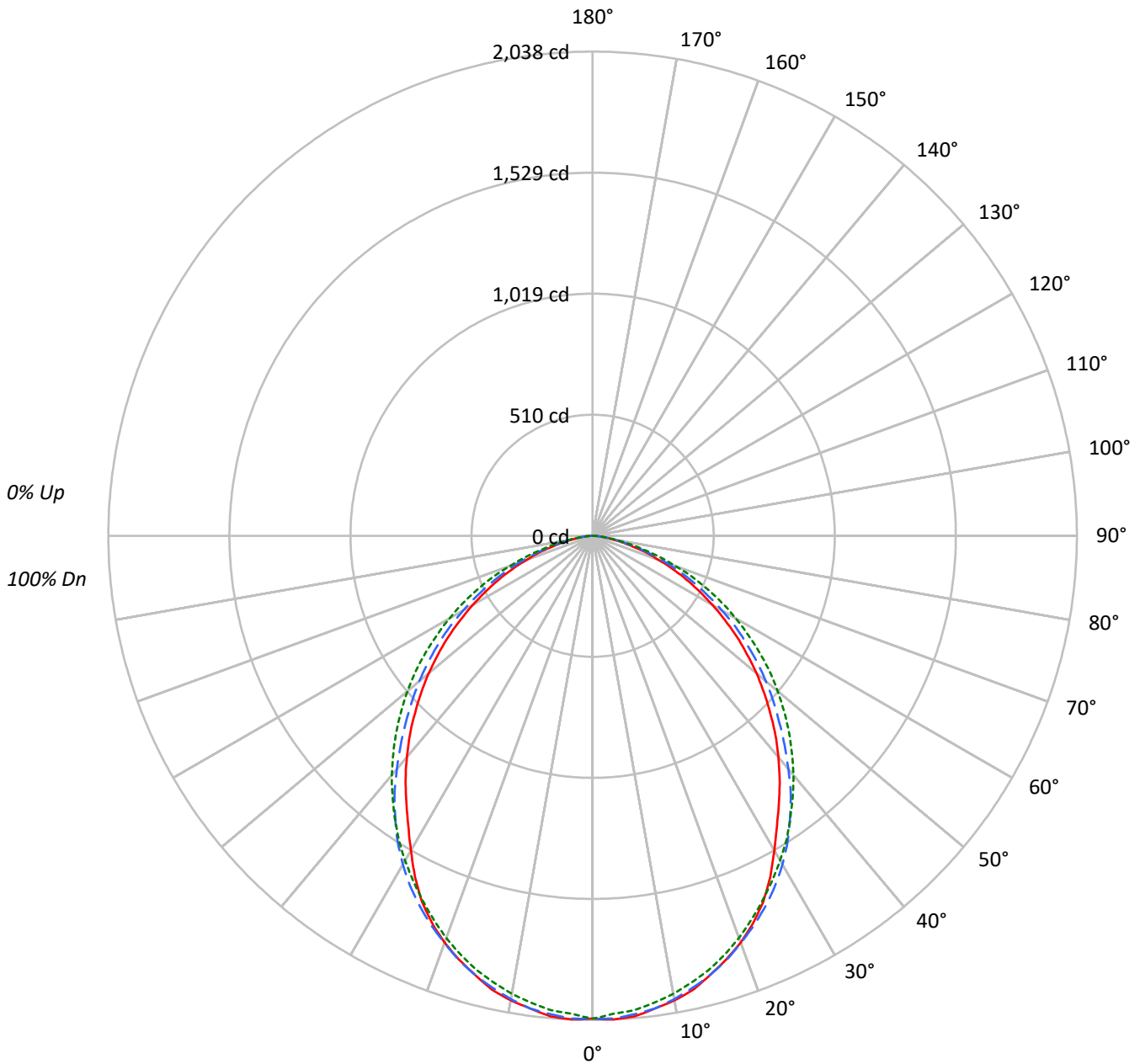
Lumens per Lamp: N/A  
Luminaire Lumens: 4700.0 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	10939	10939	10939
5°	10969	10922	10829
10°	10852	10822	10699
15°	10660	10660	10538
20°	10434	10447	10313
25°	10090	10216	10053
30°	9502	9929	9808
35°	8978	9517	9533
40°	8542	9003	9239
45°	8053	8458	8891
50°	7539	7970	8513
55°	6954	7415	8053
60°	6262	6766	7490
65°	5529	6016	6812
70°	4607	5124	5788
75°	3620	4092	4531
80°	2591	2879	3195
85°	1686	1686	1593



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.4	4.1
10°-20°	537.6	11.4
20°-30°	785.7	16.7
30°-40°	891.8	19.0
40°-50°	860.9	18.3
50°-60°	710.2	15.1
60°-70°	472.9	10.1
70°-80°	211.6	4.5
80°-90°	37.9	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°	1514.7	32.2
0°-40°	2406.5	51.2
0°-60°	3977.6	84.6
0°-90°	4700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4700.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2033	2033	2033	2033	2033	
5°	2030	2030	2022	2011	2004	192
15°	1913	1918	1913	1905	1891	539
25°	1699	1712	1720	1708	1693	778
35°	1366	1385	1448	1456	1451	856
45°	1058	1076	1111	1162	1168	816
55°	741	754	790	834	858	661
65°	434	446	472	506	535	431
75°	174	184	197	206	218	190
85°	27	27	27	26	26	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2032.6	2032.6	2032.6	2032.6	2032.6
2.5°	2038.1	2038.9	2034.2	2021.7	2013.9
5°	2030.3	2029.5	2021.7	2010.8	2004.5
7.5°	2007.6	2009.2	2006.9	1991.2	1982.7
10°	1985.8	1986.6	1980.3	1967.8	1957.7
12.5°	1957.7	1956.9	1948.3	1942.0	1925.6
15°	1913.2	1917.8	1913.2	1904.6	1891.3
17.5°	1870.2	1870.2	1873.3	1858.5	1848.3
20°	1821.8	1824.1	1824.1	1812.4	1800.7
22.5°	1765.6	1772.6	1774.9	1762.4	1748.4
25°	1699.2	1712.5	1720.3	1707.8	1692.9
27.5°	1618.8	1639.1	1662.5	1653.1	1636.7
30°	1529.0	1558.6	1597.7	1589.9	1578.2
32.5°	1443.8	1473.5	1527.4	1524.3	1518.0
35°	1366.5	1385.3	1448.5	1456.3	1450.9
37.5°	1293.1	1310.3	1369.7	1387.6	1382.9
40°	1215.8	1234.6	1281.4	1313.4	1315.0
42.5°	1139.3	1157.3	1195.5	1241.6	1241.6
45°	1058.1	1076.1	1111.2	1161.9	1168.2
47.5°	978.4	997.2	1031.5	1082.3	1092.5
50°	900.4	917.5	951.9	1001.1	1016.7
52.5°	819.1	837.9	871.5	916.8	939.4
55°	741.1	753.5	790.2	834.0	858.2
57.5°	659.8	671.6	712.9	750.4	775.4
60°	581.8	596.6	628.6	666.9	695.8
62.5°	506.8	522.4	549.7	583.3	616.1
65°	434.2	445.9	472.4	506.0	534.9
67.5°	363.9	374.0	400.6	424.0	454.5
70°	292.8	306.1	325.6	348.3	367.8
72.5°	235.8	241.3	257.7	274.1	294.4
75°	174.1	183.5	196.8	206.2	217.9
77.5°	124.9	130.4	138.2	146.0	157.0
80°	83.6	85.9	92.9	94.5	103.1
82.5°	50.8	52.3	53.9	54.7	57.8
85°	27.3	27.3	27.3	25.8	25.8
87.5°	15.6	15.6	13.3	10.9	7.8
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)