

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: P555378

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-80-85-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: P555378  
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-80-85-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

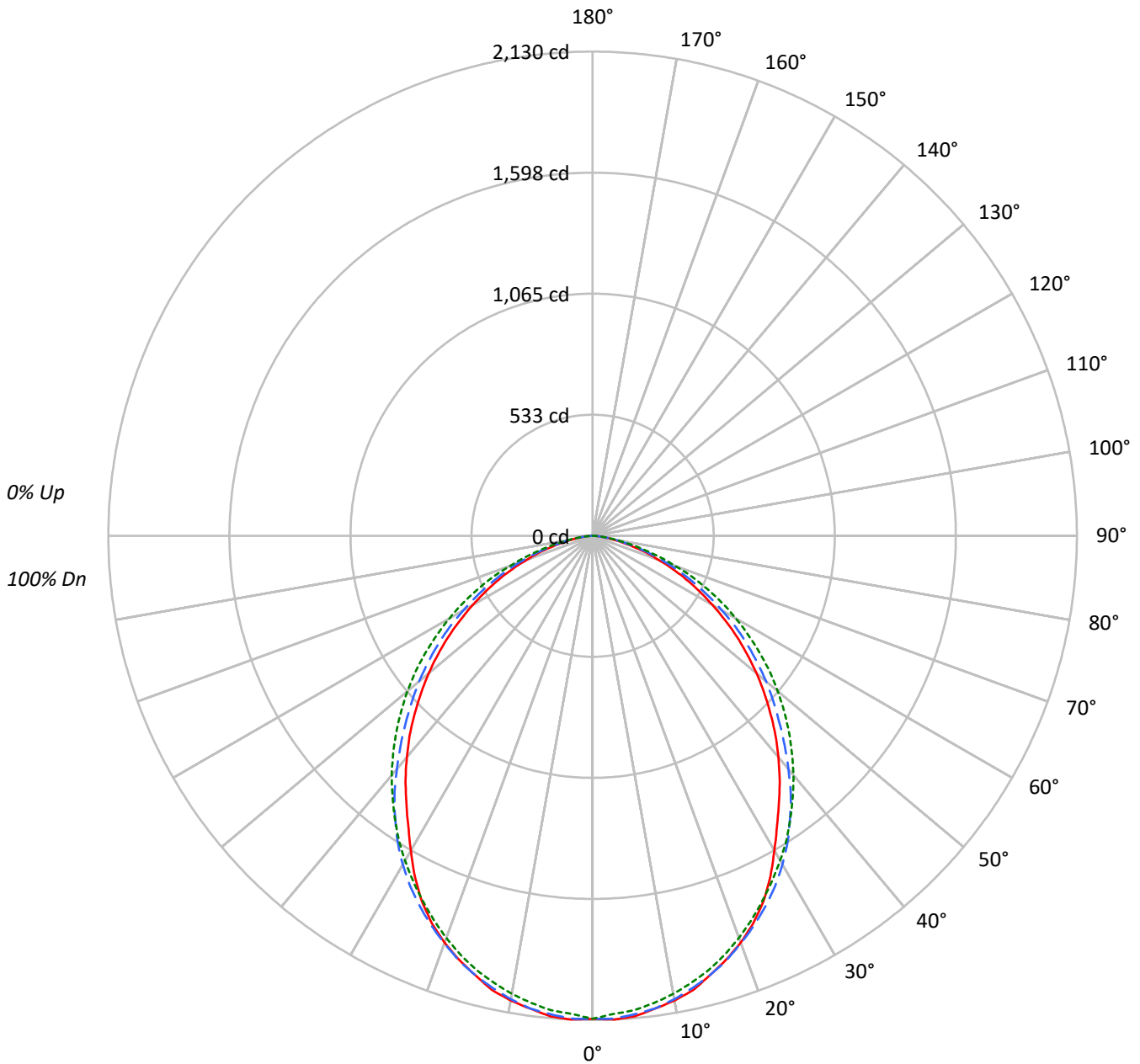
Lumens per Lamp: N/A  
Luminaire Lumens: 4913.0 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.8  
Input Voltage (V): NR  
Input Current (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°	11435	11435	11435
5°	11466	11417	11320
10°	11344	11313	11184
15°	11143	11143	11015
20°	10907	10921	10781
25°	10548	10678	10509
30°	9933	10379	10252
35°	9385	9949	9964
40°	8929	9411	9657
45°	8418	8840	9294
50°	7881	8331	8899
55°	7268	7751	8418
60°	6546	7073	7829
65°	5779	6288	7120
70°	4817	5356	6050
75°	3785	4277	4735
80°	2706	3009	3338
85°	1766	1766	1661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.1	4.1
10°-20°	562.0	11.4
20°-30°	821.3	16.7
30°-40°	932.2	19.0
40°-50°	899.9	18.3
50°-60°	742.4	15.1
60°-70°	494.4	10.1
70°-80°	221.2	4.5
80°-90°	39.6	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°	1583.3	32.2
0°-40°	2515.6	51.2
0°-60°	4157.9	84.6
0°-90°	4913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4913.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2125	2125	2125	2125	2125	
5°	2122	2122	2113	2102	2095	201
15°	2000	2005	2000	1991	1977	564
25°	1776	1790	1798	1785	1770	813
35°	1428	1448	1514	1522	1517	895
45°	1106	1125	1162	1215	1221	853
55°	775	788	826	872	897	691
65°	454	466	494	529	559	450
75°	182	192	206	216	228	199
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°	2124.7	2124.7	2124.7	2124.7	2124.7
2.5°	2130.5	2131.3	2126.4	2113.3	2105.2
5°	2122.3	2121.5	2113.3	2101.9	2095.4
7.5°	2098.6	2100.3	2097.8	2081.5	2072.5
10°	2075.8	2076.6	2070.1	2057.0	2046.4
12.5°	2046.4	2045.6	2036.6	2030.1	2012.9
15°	1999.9	2004.8	1999.9	1990.9	1977.0
17.5°	1955.0	1955.0	1958.2	1942.7	1932.1
20°	1904.4	1906.8	1906.8	1894.6	1882.3
22.5°	1845.6	1852.9	1855.4	1842.3	1827.6
25°	1776.2	1790.1	1798.2	1785.2	1769.7
27.5°	1692.1	1713.3	1737.8	1728.0	1710.9
30°	1598.3	1629.3	1670.1	1661.9	1649.7
32.5°	1509.3	1540.3	1596.6	1593.4	1586.8
35°	1428.5	1448.1	1514.2	1522.3	1516.6
37.5°	1351.7	1369.7	1431.7	1450.5	1445.6
40°	1270.9	1290.5	1339.5	1373.0	1374.6
42.5°	1190.9	1209.7	1249.7	1297.9	1297.9
45°	1106.0	1124.8	1161.5	1214.6	1221.1
47.5°	1022.8	1042.4	1078.3	1131.3	1142.0
50°	941.2	959.1	995.0	1046.5	1062.8
52.5°	856.3	875.9	911.0	958.3	982.0
55°	774.6	787.7	826.1	871.8	897.1
57.5°	689.7	702.0	745.3	784.4	810.6
60°	608.1	623.6	657.1	697.1	727.3
62.5°	529.8	546.1	574.7	609.8	644.0
65°	453.8	466.1	493.8	528.9	559.1
67.5°	380.4	391.0	418.7	443.2	475.1
70°	306.1	320.0	340.4	364.1	384.5
72.5°	246.5	252.2	269.4	286.5	307.7
75°	182.0	191.8	205.7	215.5	227.7
77.5°	130.6	136.3	144.5	152.6	164.1
80°	87.3	89.8	97.1	98.8	107.7
82.5°	53.1	54.7	56.3	57.1	60.4
85°	28.6	28.6	28.6	26.9	26.9
87.5°	16.3	16.3	13.9	11.4	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)