

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: P555185

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-80-84-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: P555185  
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-LD4-2STD-35-UNV-80-84-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

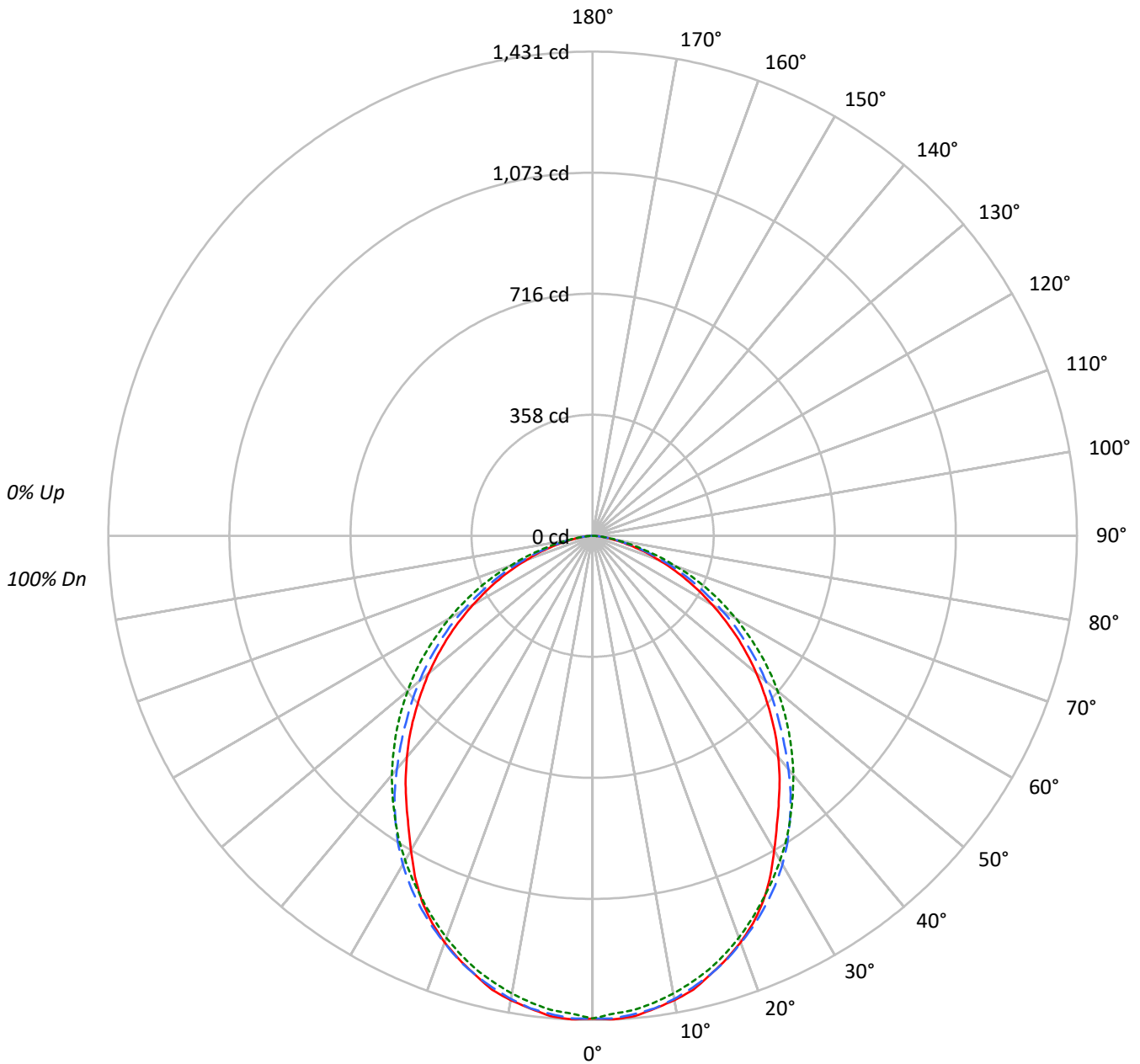
Lumens per Lamp: N/A  
Luminaire Lumens: 3299.0 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	7678	7678	7678
5°	7699	7667	7601
10°	7617	7596	7509
15°	7482	7482	7397
20°	7324	7333	7239
25°	7083	7171	7057
30°	6669	6969	6884
35°	6302	6680	6691
40°	5996	6319	6485
45°	5653	5937	6241
50°	5292	5594	5975
55°	4881	5205	5652
60°	4395	4749	5257
65°	3880	4223	4782
70°	3234	3597	4063
75°	2541	2872	3179
80°	1816	2021	2244
85°	1186	1186	1118



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.3	4.1
10°-20°	377.4	11.4
20°-30°	551.5	16.7
30°-40°	626.0	19.0
40°-50°	604.3	18.3
50°-60°	498.5	15.1
60°-70°	332.0	10.1
70°-80°	148.5	4.5
80°-90°	26.6	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°	1063.2	32.2
0°-40°	1689.1	51.2
0°-60°	2791.9	84.6
0°-90°	3299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3299.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1427	1427	1427	1427	1427	
5°	1425	1424	1419	1411	1407	135
15°	1343	1346	1343	1337	1328	379
25°	1193	1202	1208	1199	1188	546
35°	959	972	1017	1022	1018	601
45°	743	755	780	816	820	573
55°	520	529	555	585	602	464
65°	305	313	332	355	376	302
75°	122	129	138	145	153	134
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1426.7	1426.7	1426.7	1426.7	1426.7
2.5°	1430.6	1431.1	1427.8	1419.1	1413.6
5°	1425.1	1424.5	1419.1	1411.4	1407.0
7.5°	1409.2	1410.3	1408.6	1397.7	1391.7
10°	1393.8	1394.4	1390.0	1381.2	1374.1
12.5°	1374.1	1373.6	1367.5	1363.2	1351.6
15°	1342.9	1346.2	1342.9	1336.8	1327.5
17.5°	1312.7	1312.7	1314.9	1304.5	1297.4
20°	1278.7	1280.4	1280.4	1272.2	1263.9
22.5°	1239.3	1244.2	1245.9	1237.1	1227.2
25°	1192.7	1202.0	1207.5	1198.7	1188.3
27.5°	1136.2	1150.5	1166.9	1160.4	1148.8
30°	1073.2	1094.0	1121.4	1116.0	1107.7
32.5°	1013.5	1034.3	1072.1	1069.9	1065.5
35°	959.2	972.3	1016.7	1022.2	1018.4
37.5°	907.7	919.7	961.4	974.0	970.7
40°	853.4	866.6	899.4	921.9	923.0
42.5°	799.7	812.3	839.2	871.5	871.5
45°	742.7	755.3	780.0	815.6	820.0
47.5°	686.8	699.9	724.1	759.7	766.8
50°	632.0	644.0	668.1	702.7	713.6
52.5°	575.0	588.1	611.7	643.5	659.4
55°	520.2	528.9	554.7	585.4	602.4
57.5°	463.2	471.4	500.4	526.7	544.3
60°	408.3	418.8	441.2	468.1	488.4
62.5°	355.7	366.7	385.9	409.4	432.5
65°	304.7	313.0	331.6	355.2	375.5
67.5°	255.4	262.5	281.2	297.6	319.0
70°	205.5	214.9	228.6	244.5	258.2
72.5°	165.5	169.4	180.9	192.4	206.6
75°	122.2	128.8	138.1	144.7	152.9
77.5°	87.7	91.5	97.0	102.5	110.2
80°	58.6	60.3	65.2	66.3	72.4
82.5°	35.6	36.7	37.8	38.4	40.6
85°	19.2	19.2	19.2	18.1	18.1
87.5°	11.0	11.0	9.3	7.7	5.5
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)