

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: P555735

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-82-87-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: P555735  
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-LD4-3LO-35-UNV-82-87-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

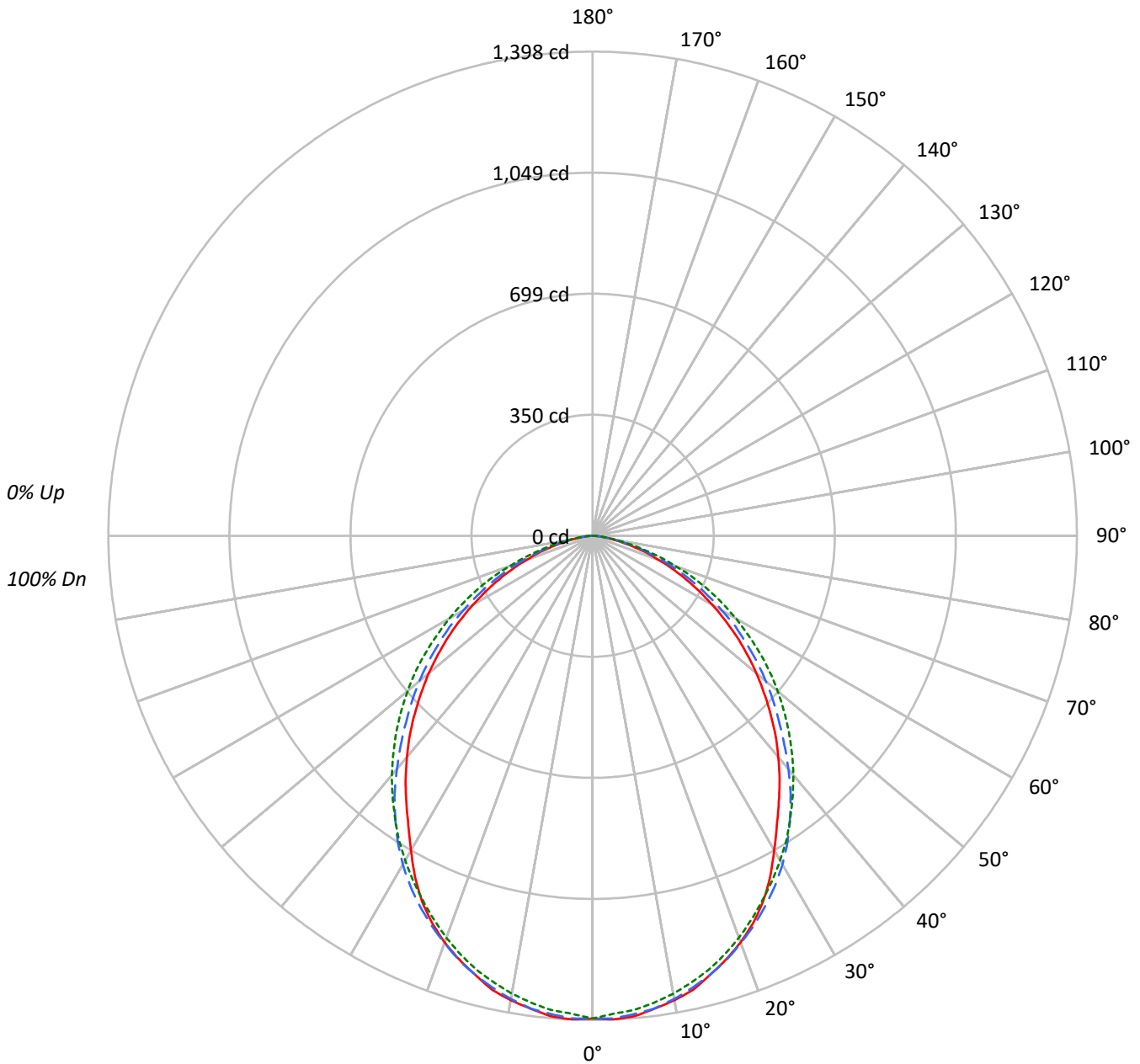
Lumens per Lamp: N/A  
Luminaire Lumens: 3223.0 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
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°	7502	7502	7502
5°	7522	7490	7426
10°	7442	7421	7337
15°	7310	7310	7226
20°	7155	7164	7072
25°	6919	7005	6894
30°	6516	6809	6725
35°	6157	6526	6537
40°	5857	6173	6336
45°	5523	5800	6097
50°	5169	5466	5838
55°	4769	5085	5522
60°	4294	4640	5135
65°	3791	4126	4671
70°	3160	3514	3969
75°	2483	2805	3107
80°	1776	1974	2191
85°	1155	1155	1093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.2	4.1
10°-20°	368.7	11.4
20°-30°	538.8	16.7
30°-40°	611.6	19.0
40°-50°	590.4	18.3
50°-60°	487.0	15.1
60°-70°	324.3	10.1
70°-80°	145.1	4.5
80°-90°	26.0	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°	1038.7	32.2
0°-40°	1650.2	51.2
0°-60°	2727.6	84.6
0°-90°	3223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3223.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1392	1392	1386	1379	1375	132
15°	1312	1315	1312	1306	1297	370
25°	1165	1174	1180	1171	1161	534
35°	937	950	993	999	995	587
45°	726	738	762	797	801	560
55°	508	517	542	572	588	454
65°	298	306	324	347	367	295
75°	119	126	135	141	149	131
85°	19	19	19	18	18	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1393.9	1393.9	1393.9	1393.9	1393.9
2.5°	1397.6	1398.1	1394.9	1386.4	1381.0
5°	1392.3	1391.7	1386.4	1378.9	1374.6
7.5°	1376.7	1377.8	1376.2	1365.5	1359.6
10°	1361.7	1362.3	1358.0	1349.4	1342.5
12.5°	1342.5	1341.9	1336.0	1331.7	1320.5
15°	1311.9	1315.1	1311.9	1306.0	1296.9
17.5°	1282.5	1282.5	1284.6	1274.5	1267.5
20°	1249.3	1250.9	1250.9	1242.9	1234.8
22.5°	1210.7	1215.5	1217.2	1208.6	1198.9
25°	1165.2	1174.3	1179.7	1171.1	1160.9
27.5°	1110.1	1124.0	1140.0	1133.6	1122.4
30°	1048.5	1068.8	1095.6	1090.2	1082.2
32.5°	990.1	1010.5	1047.4	1045.3	1041.0
35°	937.1	949.9	993.3	998.7	994.9
37.5°	886.8	898.5	939.2	951.6	948.3
40°	833.7	846.6	878.7	900.7	901.8
42.5°	781.3	793.6	819.8	851.4	851.4
45°	725.6	737.9	762.0	796.8	801.1
47.5°	671.0	683.8	707.4	742.2	749.1
50°	617.4	629.2	652.8	686.5	697.2
52.5°	561.7	574.6	597.6	628.7	644.2
55°	508.2	516.7	541.9	571.9	588.5
57.5°	452.5	460.5	488.9	514.6	531.7
60°	398.9	409.1	431.1	457.3	477.1
62.5°	347.5	358.2	377.0	400.0	422.5
65°	297.7	305.8	324.0	347.0	366.8
67.5°	249.5	256.5	274.7	290.8	311.7
70°	200.8	209.9	223.3	238.8	252.2
72.5°	161.7	165.5	176.7	188.0	201.9
75°	119.4	125.8	134.9	141.4	149.4
77.5°	85.7	89.4	94.8	100.1	107.6
80°	57.3	58.9	63.7	64.8	70.7
82.5°	34.8	35.9	36.9	37.5	39.6
85°	18.7	18.7	18.7	17.7	17.7
87.5°	10.7	10.7	9.1	7.5	5.4
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)