

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: P555718

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-81-87-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: P555718  
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-81-87-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

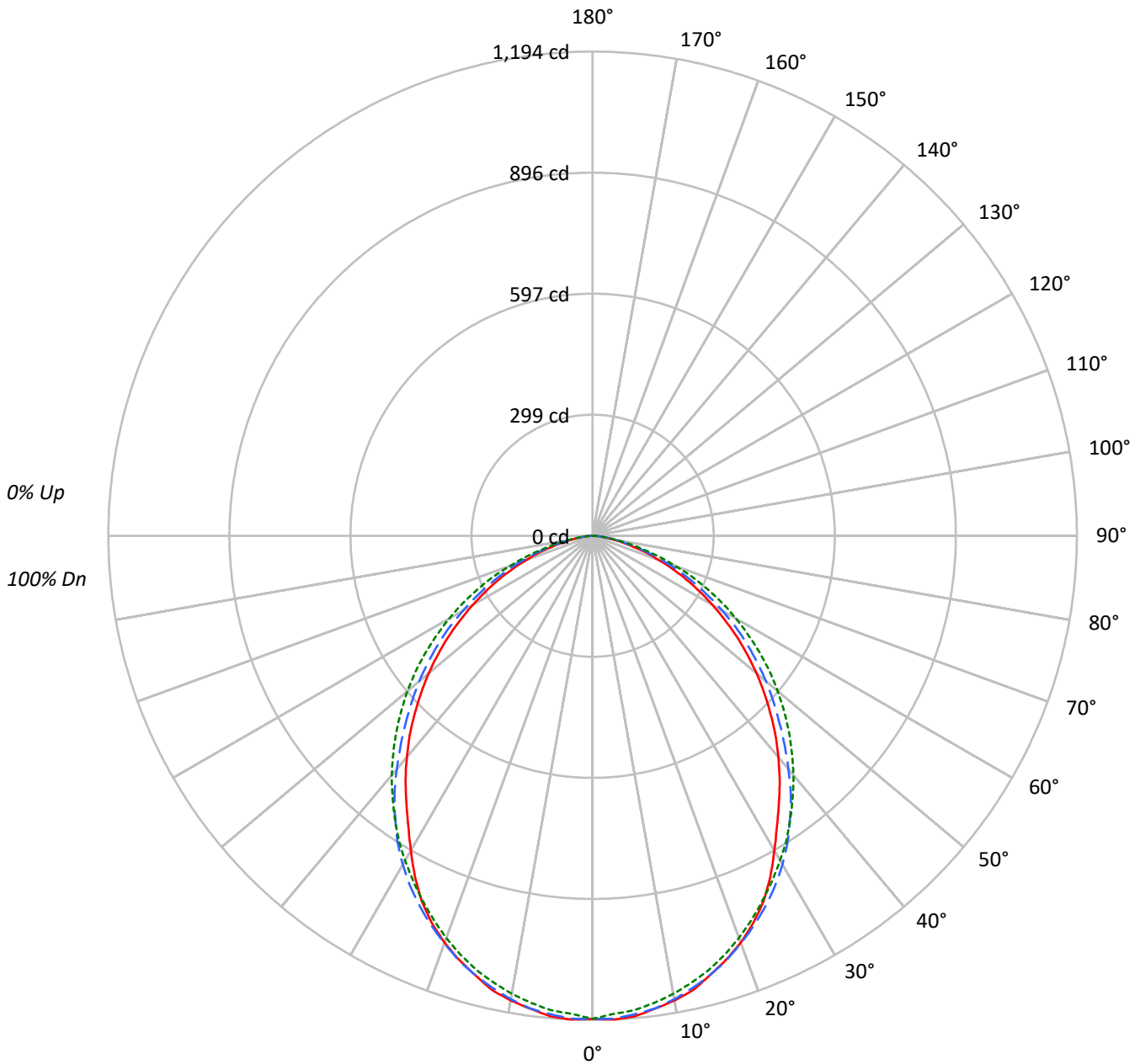
Lumens per Lamp: N/A  
Luminaire Lumens: 2754.0 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
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°	6410	6410	6410
5°	6427	6400	6346
10°	6359	6342	6269
15°	6246	6246	6175
20°	6114	6122	6043
25°	5913	5986	5891
30°	5568	5818	5747
35°	5261	5577	5586
40°	5005	5276	5413
45°	4719	4956	5210
50°	4418	4670	4988
55°	4074	4345	4719
60°	3669	3964	4388
65°	3240	3525	3991
70°	2700	3002	3391
75°	2121	2398	2655
80°	1519	1686	1872
85°	988	988	932



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.1	4.1
10°-20°	315.0	11.4
20°-30°	460.4	16.7
30°-40°	522.6	19.0
40°-50°	504.4	18.3
50°-60°	416.1	15.1
60°-70°	277.1	10.1
70°-80°	124.0	4.5
80°-90°	22.2	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°	887.5	32.2
0°-40°	1410.1	51.2
0°-60°	2330.7	84.6
0°-90°	2754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2754.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1190	1189	1185	1178	1175	113
15°	1121	1124	1121	1116	1108	316
25°	996	1003	1008	1001	992	456
35°	801	812	849	853	850	502
45°	620	630	651	681	684	478
55°	434	442	463	489	503	388
65°	254	261	277	296	313	252
75°	102	108	115	121	128	112
85°	16	16	16	15	15	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1191.0	1191.0	1191.0	1191.0	1191.0
2.5°	1194.2	1194.7	1191.9	1184.6	1180.1
5°	1189.7	1189.2	1184.6	1178.2	1174.6
7.5°	1176.4	1177.3	1175.9	1166.8	1161.7
10°	1163.6	1164.0	1160.4	1153.1	1147.1
12.5°	1147.1	1146.7	1141.6	1138.0	1128.3
15°	1121.0	1123.8	1121.0	1116.0	1108.2
17.5°	1095.9	1095.9	1097.7	1089.0	1083.0
20°	1067.5	1068.9	1068.9	1062.0	1055.1
22.5°	1034.5	1038.7	1040.0	1032.7	1024.5
25°	995.7	1003.4	1008.0	1000.7	992.0
27.5°	948.5	960.4	974.1	968.7	959.0
30°	895.9	913.3	936.2	931.6	924.7
32.5°	846.0	863.4	895.0	893.2	889.5
35°	800.7	811.7	848.8	853.4	850.2
37.5°	757.7	767.8	802.6	813.1	810.3
40°	712.4	723.4	750.9	769.6	770.5
42.5°	667.6	678.1	700.5	727.5	727.5
45°	620.0	630.5	651.1	680.9	684.5
47.5°	573.3	584.3	604.4	634.2	640.1
50°	527.6	537.6	557.8	586.6	595.7
52.5°	480.0	491.0	510.6	537.2	550.4
55°	434.2	441.5	463.1	488.7	502.9
57.5°	386.6	393.5	417.8	439.7	454.4
60°	340.9	349.6	368.3	390.8	407.7
62.5°	297.0	306.1	322.1	341.8	361.0
65°	254.4	261.3	276.8	296.5	313.4
67.5°	213.2	219.2	234.7	248.5	266.3
70°	171.6	179.4	190.8	204.1	215.5
72.5°	138.2	141.4	151.0	160.6	172.5
75°	102.0	107.5	115.3	120.8	127.7
77.5°	73.2	76.4	81.0	85.6	92.0
80°	49.0	50.3	54.4	55.4	60.4
82.5°	29.7	30.7	31.6	32.0	33.9
85°	16.0	16.0	16.0	15.1	15.1
87.5°	9.2	9.2	7.8	6.4	4.6
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)