

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: P555200

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-81-84-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: P555200  
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-81-84-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

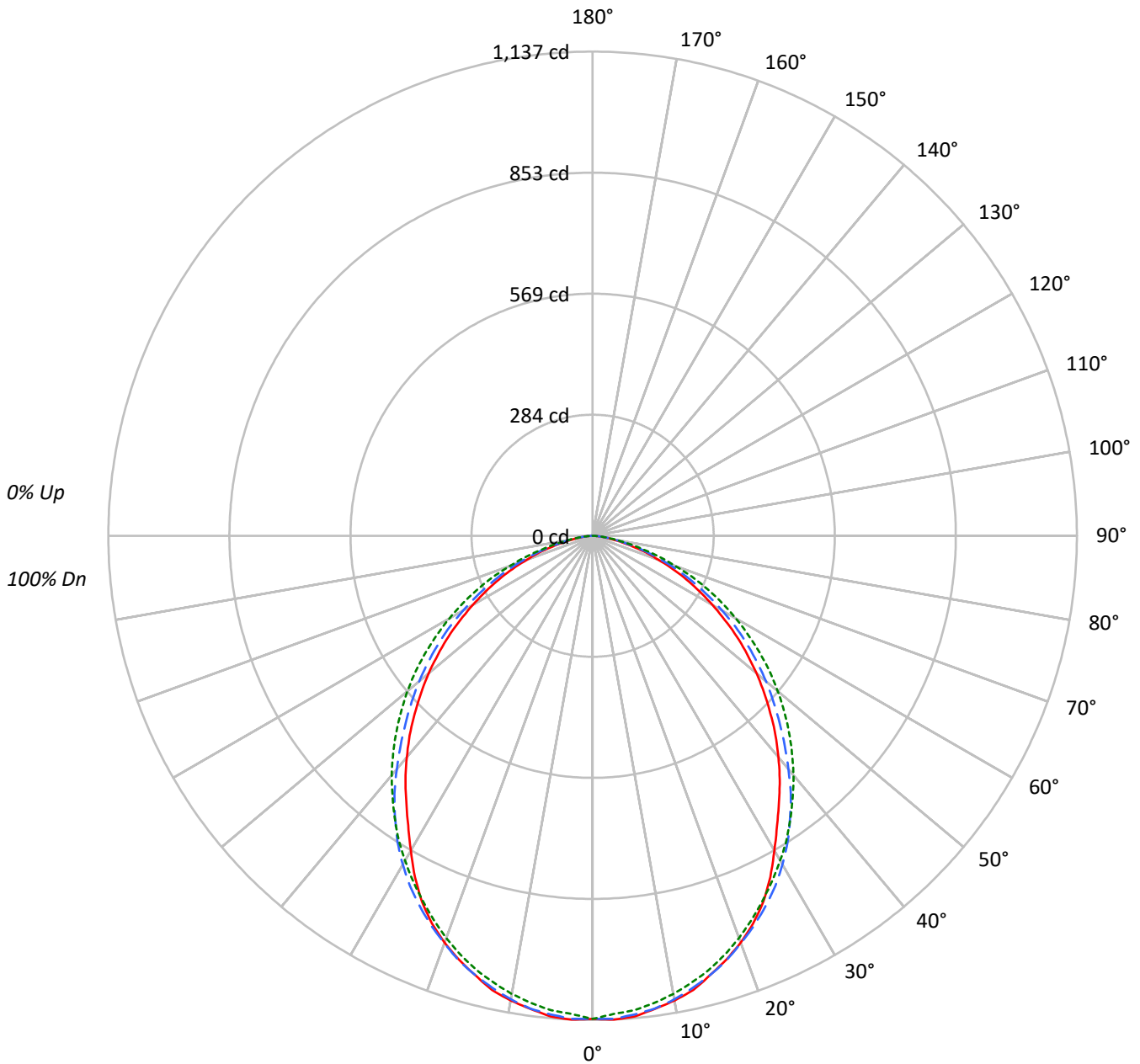
Lumens per Lamp: N/A  
Luminaire Lumens: 2623.0 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	6105	6105	6105
5°	6122	6096	6044
10°	6056	6040	5970
15°	5949	5949	5881
20°	5823	5830	5755
25°	5631	5701	5611
30°	5303	5541	5473
35°	5010	5311	5320
40°	4767	5024	5156
45°	4494	4720	4963
50°	4207	4448	4751
55°	3881	4138	4494
60°	3495	3776	4180
65°	3086	3358	3801
70°	2571	2859	3231
75°	2021	2283	2529
80°	1444	1609	1782
85°	945	945	889



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.8	4.1
10°-20°	300.0	11.4
20°-30°	438.5	16.7
30°-40°	497.7	19.0
40°-50°	480.5	18.3
50°-60°	396.3	15.1
60°-70°	263.9	10.1
70°-80°	118.1	4.5
80°-90°	21.1	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°	845.3	32.2
0°-40°	1343.0	51.2
0°-60°	2219.8	84.6
0°-90°	2623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2623.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1133	1133	1128	1122	1119	107
15°	1068	1070	1068	1063	1056	301
25°	948	956	960	953	945	434
35°	763	773	808	813	810	478
45°	590	600	620	648	652	456
55°	414	420	441	465	479	369
65°	242	249	264	282	298	240
75°	97	102	110	115	122	106
85°	15	15	15	14	14	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1134.4	1134.4	1134.4	1134.4	1134.4
2.5°	1137.4	1137.9	1135.3	1128.3	1123.9
5°	1133.1	1132.6	1128.3	1122.2	1118.7
7.5°	1120.4	1121.3	1120.0	1111.3	1106.5
10°	1108.2	1108.7	1105.2	1098.2	1092.5
12.5°	1092.5	1092.1	1087.3	1083.8	1074.7
15°	1067.7	1070.3	1067.7	1062.9	1055.5
17.5°	1043.7	1043.7	1045.5	1037.2	1031.5
20°	1016.7	1018.0	1018.0	1011.5	1004.9
22.5°	985.3	989.3	990.6	983.6	975.7
25°	948.3	955.7	960.1	953.1	944.8
27.5°	903.4	914.7	927.8	922.6	913.4
30°	853.3	869.9	891.6	887.3	880.7
32.5°	805.8	822.3	852.4	850.7	847.2
35°	762.6	773.1	808.4	812.8	809.7
37.5°	721.7	731.3	764.4	774.4	771.8
40°	678.5	689.0	715.1	733.0	733.9
42.5°	635.8	645.9	667.2	692.9	692.9
45°	590.5	600.5	620.1	648.5	652.0
47.5°	546.1	556.5	575.7	604.0	609.7
50°	502.5	512.1	531.2	558.7	567.4
52.5°	457.2	467.6	486.3	511.6	524.3
55°	413.6	420.5	441.0	465.4	478.9
57.5°	368.2	374.8	397.9	418.8	432.7
60°	324.7	332.9	350.8	372.2	388.3
62.5°	282.8	291.5	306.8	325.5	343.8
65°	242.3	248.8	263.7	282.4	298.5
67.5°	203.1	208.7	223.6	236.6	253.6
70°	163.4	170.8	181.7	194.4	205.3
72.5°	131.6	134.7	143.8	153.0	164.3
75°	97.2	102.4	109.8	115.1	121.6
77.5°	69.7	72.8	77.1	81.5	87.6
80°	46.6	47.9	51.9	52.7	57.5
82.5°	28.3	29.2	30.1	30.5	32.2
85°	15.3	15.3	15.3	14.4	14.4
87.5°	8.7	8.7	7.4	6.1	4.4
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)