

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: P555264

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-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: P555264  
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-40-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 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

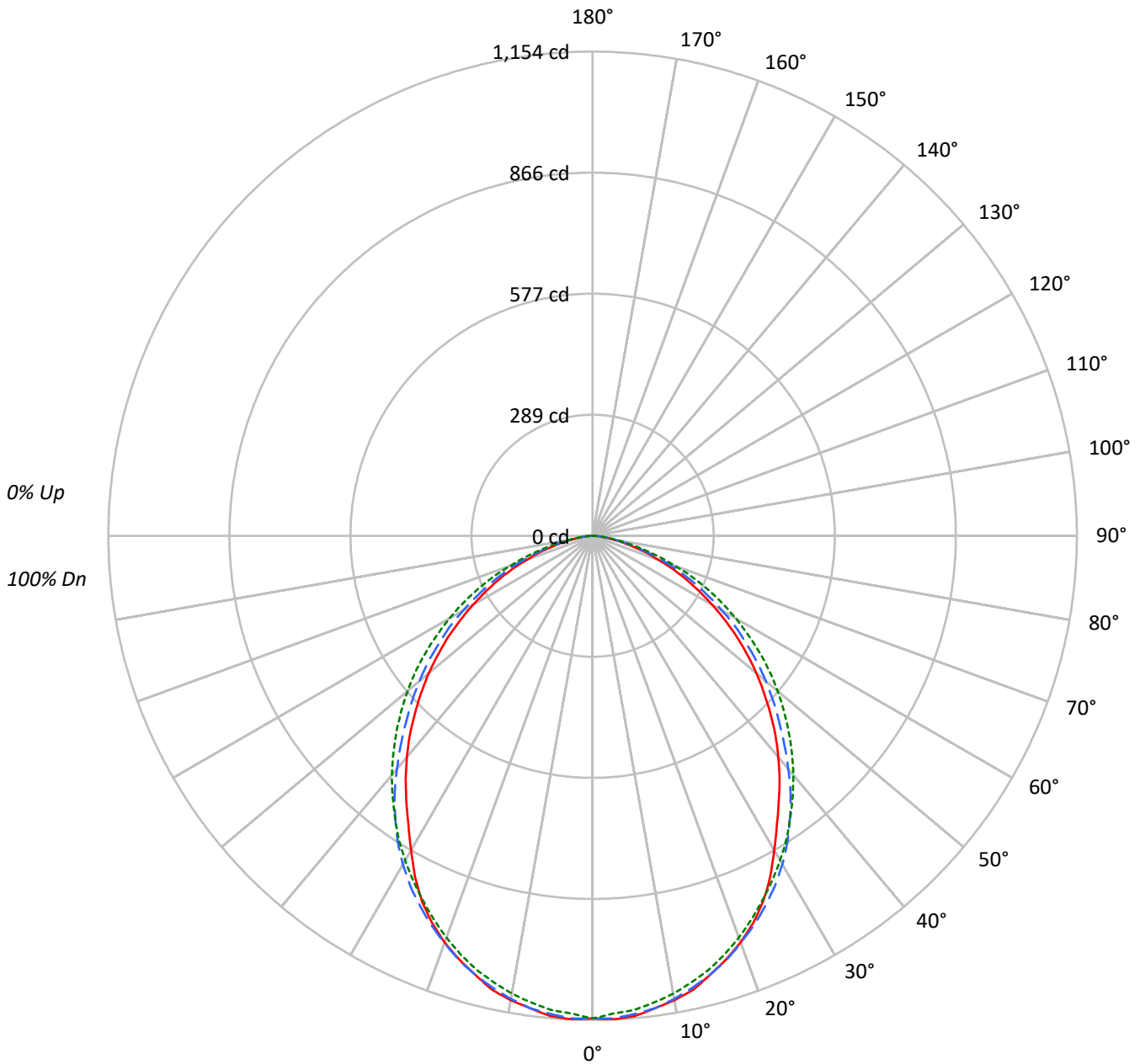
Lumens per Lamp: N/A  
Luminaire Lumens: 2660.0 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (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°	6191	6191	6191
5°	6208	6182	6129
10°	6142	6125	6055
15°	6033	6033	5964
20°	5905	5913	5837
25°	5711	5782	5690
30°	5377	5619	5551
35°	5081	5386	5395
40°	4834	5095	5228
45°	4558	4787	5032
50°	4267	4510	4818
55°	3935	4196	4557
60°	3543	3830	4239
65°	3129	3405	3855
70°	2607	2900	3276
75°	2050	2316	2564
80°	1466	1630	1807
85°	957	957	902



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.3	4.1
10°-20°	304.3	11.4
20°-30°	444.6	16.7
30°-40°	504.7	19.0
40°-50°	487.2	18.3
50°-60°	401.9	15.1
60°-70°	267.7	10.1
70°-80°	119.8	4.5
80°-90°	21.4	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°	857.2	32.2
0°-40°	1362.0	51.2
0°-60°	2251.1	84.6
0°-90°	2660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2660.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1149	1149	1144	1138	1134	109
15°	1083	1085	1083	1078	1070	305
25°	962	969	974	966	958	440
35°	773	784	820	824	821	485
45°	599	609	629	658	661	462
55°	419	426	447	472	486	374
65°	246	252	267	286	303	244
75°	99	104	111	117	123	108
85°	16	16	16	15	15	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1150.4	1150.4	1150.4	1150.4	1150.4
2.5°	1153.5	1153.9	1151.3	1144.2	1139.8
5°	1149.1	1148.6	1144.2	1138.0	1134.5
7.5°	1136.2	1137.1	1135.8	1127.0	1122.1
10°	1123.9	1124.3	1120.8	1113.7	1108.0
12.5°	1108.0	1107.5	1102.7	1099.1	1089.8
15°	1082.8	1085.4	1082.8	1077.9	1070.4
17.5°	1058.5	1058.5	1060.2	1051.8	1046.1
20°	1031.1	1032.4	1032.4	1025.8	1019.1
22.5°	999.2	1003.2	1004.5	997.5	989.5
25°	961.7	969.2	973.6	966.5	958.1
27.5°	916.2	927.6	940.9	935.6	926.3
30°	865.3	882.1	904.2	899.8	893.2
32.5°	817.2	833.9	864.4	862.7	859.1
35°	773.4	784.0	819.8	824.2	821.1
37.5°	731.9	741.6	775.2	785.3	782.7
40°	688.1	698.7	725.2	743.4	744.2
42.5°	644.8	655.0	676.6	702.7	702.7
45°	598.8	609.0	628.9	657.6	661.1
47.5°	553.8	564.4	583.8	612.5	618.3
50°	509.6	519.3	538.7	566.6	575.4
52.5°	463.6	474.2	493.2	518.8	531.7
55°	419.4	426.5	447.2	472.0	485.7
57.5°	373.4	380.1	403.5	424.7	438.9
60°	329.2	337.6	355.8	377.4	393.8
62.5°	286.8	295.7	311.1	330.1	348.7
65°	245.7	252.4	267.4	286.4	302.7
67.5°	205.9	211.7	226.7	240.0	257.2
70°	165.7	173.2	184.3	197.1	208.2
72.5°	133.5	136.6	145.8	155.1	166.6
75°	98.6	103.9	111.4	116.7	123.3
77.5°	70.7	73.8	78.2	82.6	88.8
80°	47.3	48.6	52.6	53.5	58.3
82.5°	28.7	29.6	30.5	30.9	32.7
85°	15.5	15.5	15.5	14.6	14.6
87.5°	8.8	8.8	7.5	6.2	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)