

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: P555266

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-81-85-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: P555266  
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-81-85-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

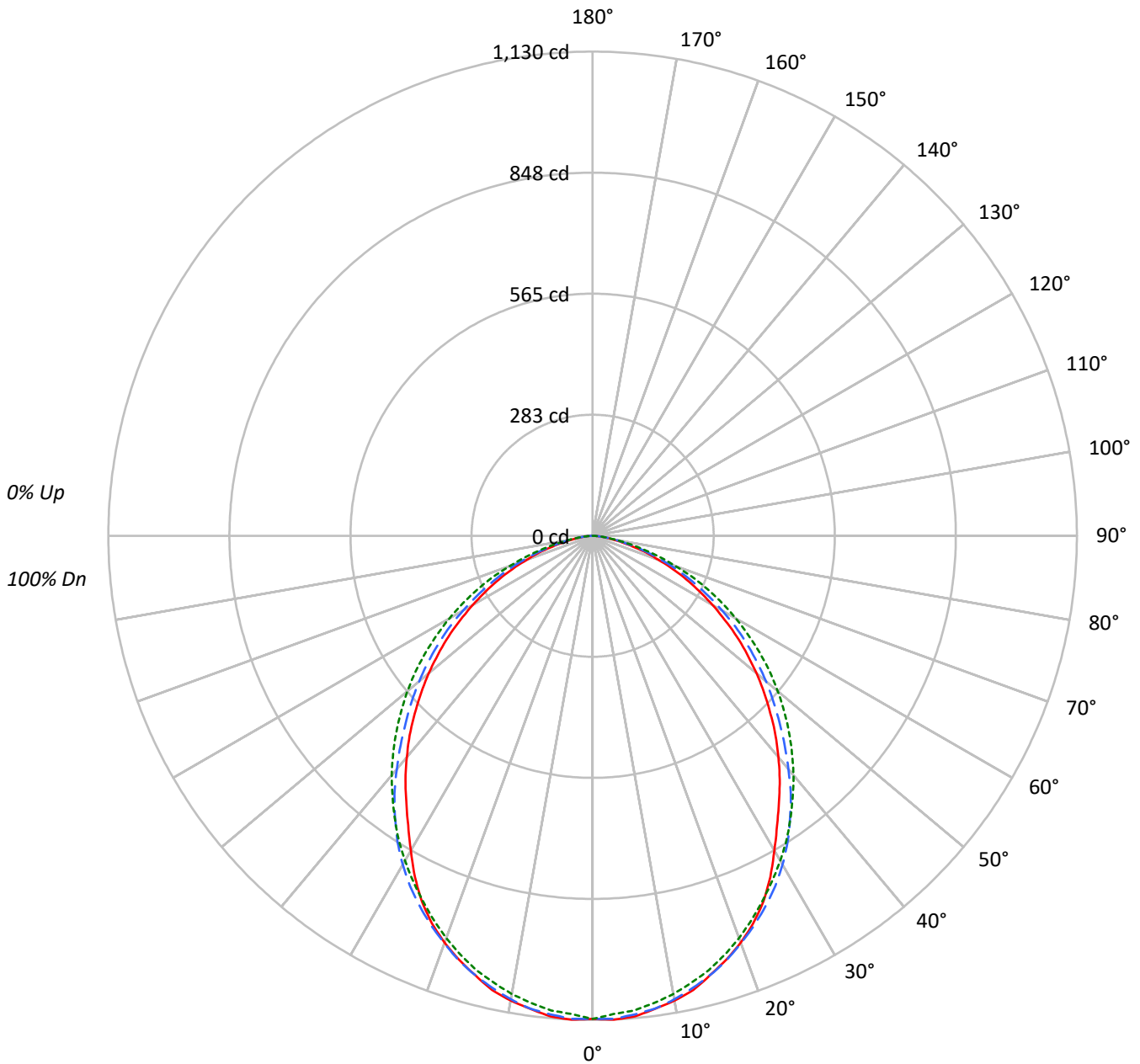
Lumens per Lamp: N/A  
Luminaire Lumens: 2607.0 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	6068	6068	6068
5°	6084	6058	6007
10°	6020	6003	5934
15°	5913	5913	5845
20°	5787	5795	5720
25°	5597	5666	5576
30°	5271	5507	5440
35°	4980	5279	5288
40°	4738	4994	5125
45°	4467	4692	4932
50°	4181	4421	4721
55°	3856	4113	4466
60°	3474	3753	4154
65°	3067	3337	3778
70°	2555	2842	3210
75°	2009	2271	2512
80°	1435	1596	1773
85°	939	939	883



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.2	4.1
10°-20°	298.2	11.4
20°-30°	435.8	16.7
30°-40°	494.7	19.0
40°-50°	477.5	18.3
50°-60°	393.9	15.1
60°-70°	262.3	10.1
70°-80°	117.4	4.5
80°-90°	21.0	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°	840.2	32.2
0°-40°	1334.8	51.2
0°-60°	2206.3	84.6
0°-90°	2607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2607.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1126	1126	1121	1115	1112	107
15°	1061	1064	1061	1056	1049	299
25°	942	950	954	947	939	432
35°	758	768	804	808	805	475
45°	587	597	616	644	648	453
55°	411	418	438	463	476	367
65°	241	247	262	281	297	239
75°	97	102	109	114	121	106
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1127.5	1127.5	1127.5	1127.5	1127.5
2.5°	1130.5	1130.9	1128.3	1121.4	1117.1
5°	1126.2	1125.7	1121.4	1115.3	1111.9
7.5°	1113.6	1114.5	1113.2	1104.5	1099.7
10°	1101.5	1101.9	1098.4	1091.5	1085.9
12.5°	1085.9	1085.4	1080.7	1077.2	1068.1
15°	1061.2	1063.8	1061.2	1056.4	1049.1
17.5°	1037.4	1037.4	1039.1	1030.9	1025.2
20°	1010.5	1011.8	1011.8	1005.3	998.8
22.5°	979.3	983.2	984.5	977.6	969.8
25°	942.5	949.9	954.2	947.3	939.0
27.5°	897.9	909.2	922.2	917.0	907.9
30°	848.1	864.5	886.2	881.9	875.4
32.5°	800.9	817.3	847.2	845.5	842.0
35°	758.0	768.4	803.5	807.8	804.8
37.5°	717.3	726.8	759.7	769.7	767.1
40°	674.4	684.8	710.8	728.5	729.4
42.5°	631.9	641.9	663.1	688.7	688.7
45°	586.9	596.9	616.4	644.5	648.0
47.5°	542.7	553.1	572.2	600.3	606.0
50°	499.4	508.9	528.0	555.3	563.9
52.5°	454.4	464.8	483.4	508.5	521.1
55°	411.0	418.0	438.3	462.6	476.0
57.5°	366.0	372.5	395.5	416.2	430.1
60°	322.7	330.9	348.7	369.9	385.9
62.5°	281.1	289.8	304.9	323.6	341.7
65°	240.8	247.3	262.0	280.7	296.7
67.5°	201.8	207.5	222.2	235.2	252.1
70°	162.4	169.8	180.6	193.2	204.0
72.5°	130.8	133.8	142.9	152.0	163.3
75°	96.6	101.8	109.2	114.3	120.8
77.5°	69.3	72.3	76.7	81.0	87.1
80°	46.3	47.6	51.5	52.4	57.2
82.5°	28.2	29.0	29.9	30.3	32.1
85°	15.2	15.2	15.2	14.3	14.3
87.5°	8.7	8.7	7.4	6.1	4.3
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)