

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: P555243

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-93-94-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: P555243  
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-93-94-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

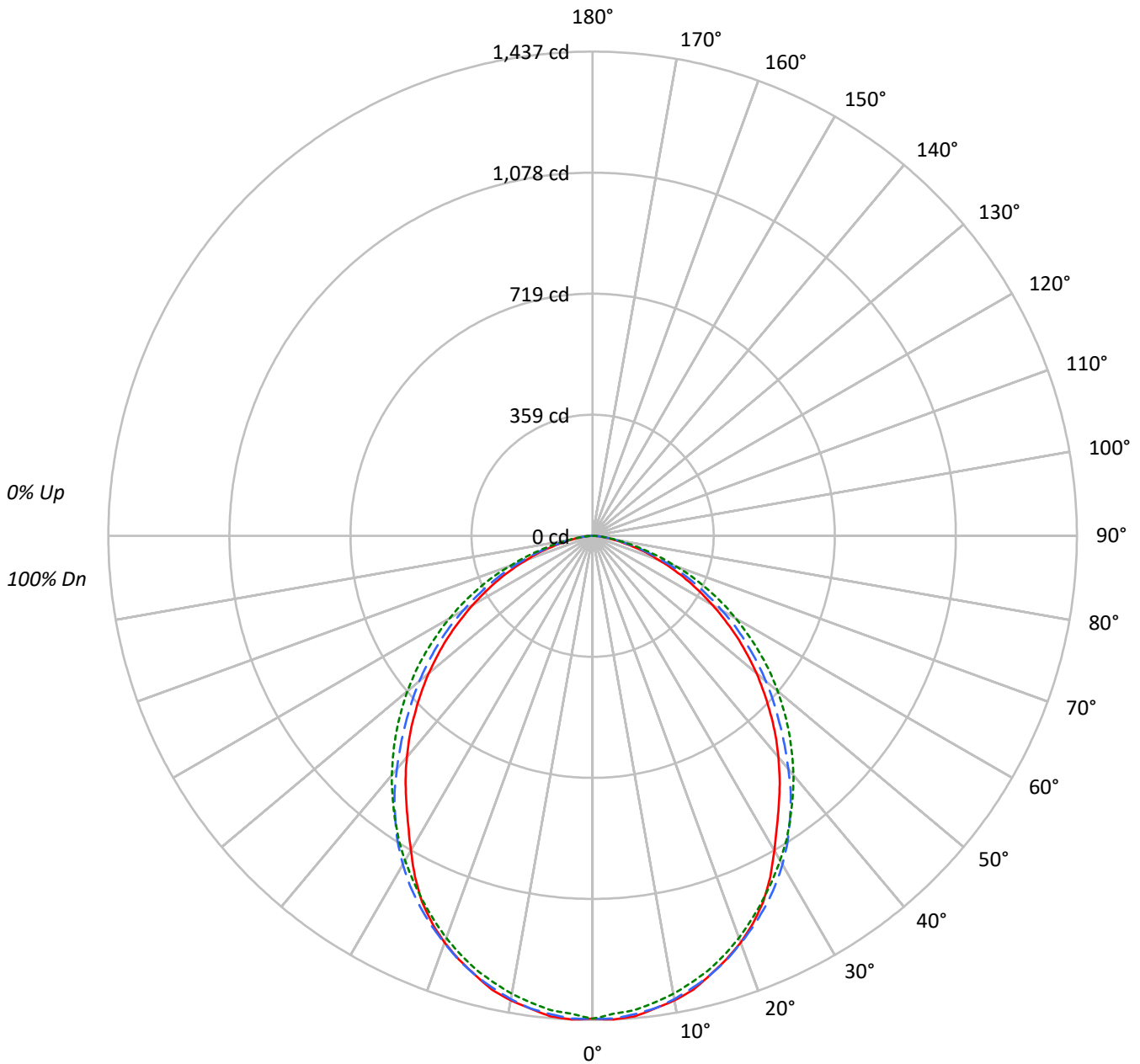
Lumens per Lamp: N/A  
Luminaire Lumens: 3314.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	7713	7713	7713
5°	7734	7701	7636
10°	7652	7631	7544
15°	7516	7516	7431
20°	7357	7367	7272
25°	7115	7203	7089
30°	6700	7001	6916
35°	6331	6711	6721
40°	6023	6348	6514
45°	5679	5963	6269
50°	5315	5620	6002
55°	4903	5228	5678
60°	4415	4771	5281
65°	3898	4242	4804
70°	3249	3613	4080
75°	2554	2886	3194
80°	1826	2030	2253
85°	1192	1192	1124



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.9	4.1
10°-20°	379.1	11.4
20°-30°	554.0	16.7
30°-40°	628.8	19.0
40°-50°	607.0	18.3
50°-60°	500.8	15.1
60°-70°	333.5	10.1
70°-80°	149.2	4.5
80°-90°	26.7	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°	1068.0	32.2
0°-40°	1696.8	51.2
0°-60°	2804.6	84.6
0°-90°	3314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3314.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1432	1431	1426	1418	1413	135
15°	1349	1352	1349	1343	1334	380
25°	1198	1208	1213	1204	1194	549
35°	964	977	1021	1027	1023	604
45°	746	759	784	819	824	576
55°	522	531	557	588	605	466
65°	306	314	333	357	377	304
75°	123	129	139	145	154	134
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1433.2	1433.2	1433.2	1433.2	1433.2
2.5°	1437.1	1437.6	1434.3	1425.5	1420.0
5°	1431.6	1431.0	1425.5	1417.8	1413.4
7.5°	1415.6	1416.7	1415.0	1404.0	1398.0
10°	1400.2	1400.7	1396.3	1387.5	1380.4
12.5°	1380.4	1379.8	1373.8	1369.3	1357.8
15°	1349.0	1352.3	1349.0	1342.9	1333.6
17.5°	1318.7	1318.7	1320.9	1310.4	1303.3
20°	1284.6	1286.2	1286.2	1277.9	1269.7
22.5°	1244.9	1249.9	1251.5	1242.7	1232.8
25°	1198.1	1207.5	1213.0	1204.2	1193.7
27.5°	1141.4	1155.7	1172.2	1165.6	1154.1
30°	1078.1	1099.0	1126.5	1121.0	1112.8
32.5°	1018.1	1039.0	1077.0	1074.8	1070.4
35°	963.6	976.8	1021.4	1026.9	1023.0
37.5°	911.8	923.9	965.8	978.4	975.1
40°	857.3	870.5	903.5	926.1	927.2
42.5°	803.3	816.0	843.0	875.5	875.5
45°	746.1	758.7	783.5	819.3	823.7
47.5°	689.9	703.1	727.3	763.1	770.3
50°	634.8	647.0	671.2	705.9	716.9
52.5°	577.6	590.8	614.5	646.4	662.4
55°	522.5	531.3	557.2	588.0	605.1
57.5°	465.3	473.5	502.7	529.1	546.7
60°	410.2	420.7	443.2	470.2	490.6
62.5°	357.3	368.4	387.6	411.3	434.4
65°	306.1	314.4	333.1	356.8	377.2
67.5°	256.6	263.7	282.5	299.0	320.5
70°	206.5	215.8	229.6	245.6	259.3
72.5°	166.3	170.1	181.7	193.3	207.6
75°	122.8	129.4	138.8	145.4	153.6
77.5°	88.1	92.0	97.5	103.0	110.7
80°	58.9	60.6	65.5	66.6	72.7
82.5°	35.8	36.9	38.0	38.5	40.7
85°	19.3	19.3	19.3	18.2	18.2
87.5°	11.0	11.0	9.4	7.7	5.5
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)