

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: P555309

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-93-96-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: P555309  
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-93-96-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE  
AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND  
4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

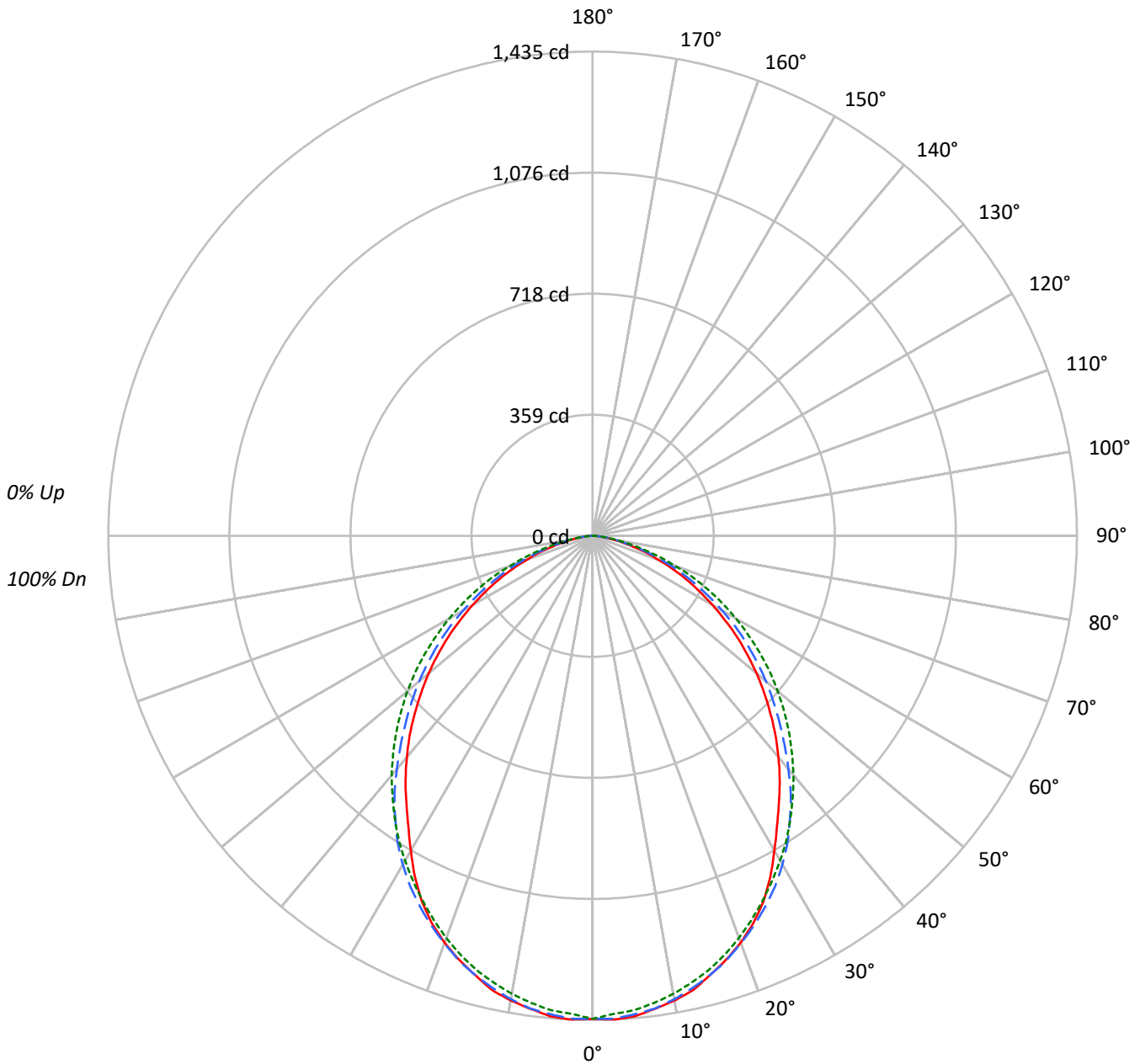
Lumens per Lamp: N/A  
Luminaire Lumens: 3310.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	7704	7704	7704
5°	7725	7692	7627
10°	7643	7621	7535
15°	7507	7507	7422
20°	7348	7358	7263
25°	7106	7194	7080
30°	6692	6993	6907
35°	6323	6702	6713
40°	6016	6340	6506
45°	5672	5957	6262
50°	5309	5613	5995
55°	4897	5222	5671
60°	4410	4765	5274
65°	3894	4237	4797
70°	3245	3608	4076
75°	2549	2882	3190
80°	1822	2027	2250
85°	1186	1186	1118



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.8	4.1
10°-20°	378.6	11.4
20°-30°	553.3	16.7
30°-40°	628.1	19.0
40°-50°	606.3	18.3
50°-60°	500.1	15.1
60°-70°	333.1	10.1
70°-80°	149.0	4.5
80°-90°	26.6	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°	1066.7	32.2
0°-40°	1694.8	51.2
0°-60°	2801.2	84.6
0°-90°	3310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3310.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1432	1432	1432	1432	1432	
5°	1430	1429	1424	1416	1412	135
15°	1347	1351	1347	1341	1332	380
25°	1197	1206	1212	1203	1192	548
35°	962	976	1020	1026	1022	603
45°	745	758	783	818	823	575
55°	522	531	556	587	604	466
65°	306	314	333	356	377	303
75°	123	129	139	145	153	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°	1431.5	1431.5	1431.5	1431.5	1431.5
2.5°	1435.3	1435.9	1432.6	1423.8	1418.3
5°	1429.8	1429.3	1423.8	1416.1	1411.7
7.5°	1413.9	1415.0	1413.3	1402.3	1396.3
10°	1398.5	1399.0	1394.6	1385.8	1378.7
12.5°	1378.7	1378.1	1372.1	1367.7	1356.1
15°	1347.3	1350.6	1347.3	1341.3	1332.0
17.5°	1317.1	1317.1	1319.3	1308.9	1301.7
20°	1283.0	1284.7	1284.7	1276.4	1268.2
22.5°	1243.4	1248.4	1250.0	1241.2	1231.3
25°	1196.7	1206.0	1211.5	1202.7	1192.3
27.5°	1140.0	1154.3	1170.8	1164.2	1152.7
30°	1076.8	1097.7	1125.2	1119.7	1111.4
32.5°	1016.8	1037.7	1075.7	1073.5	1069.1
35°	962.4	975.6	1020.1	1025.6	1021.8
37.5°	910.7	922.8	964.6	977.2	973.9
40°	856.3	869.5	902.4	925.0	926.1
42.5°	802.4	815.0	842.0	874.4	874.4
45°	745.2	757.8	782.6	818.3	822.7
47.5°	689.1	702.3	726.5	762.2	769.4
50°	634.1	646.2	670.4	705.0	716.0
52.5°	576.9	590.1	613.7	645.6	661.6
55°	521.9	530.7	556.5	587.3	604.4
57.5°	464.7	472.9	502.1	528.5	546.1
60°	409.7	420.2	442.7	469.6	490.0
62.5°	356.9	367.9	387.2	410.8	433.9
65°	305.8	314.0	332.7	356.4	376.7
67.5°	256.3	263.4	282.1	298.6	320.1
70°	206.2	215.6	229.3	245.3	259.0
72.5°	166.1	169.9	181.5	193.0	207.3
75°	122.6	129.2	138.6	145.2	153.4
77.5°	88.0	91.8	97.3	102.8	110.5
80°	58.8	60.5	65.4	66.5	72.6
82.5°	35.7	36.8	37.9	38.5	40.7
85°	19.2	19.2	19.2	18.1	18.1
87.5°	11.0	11.0	9.3	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)