

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: P555437

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-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: P555437  
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-LD4-3HI-30-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 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

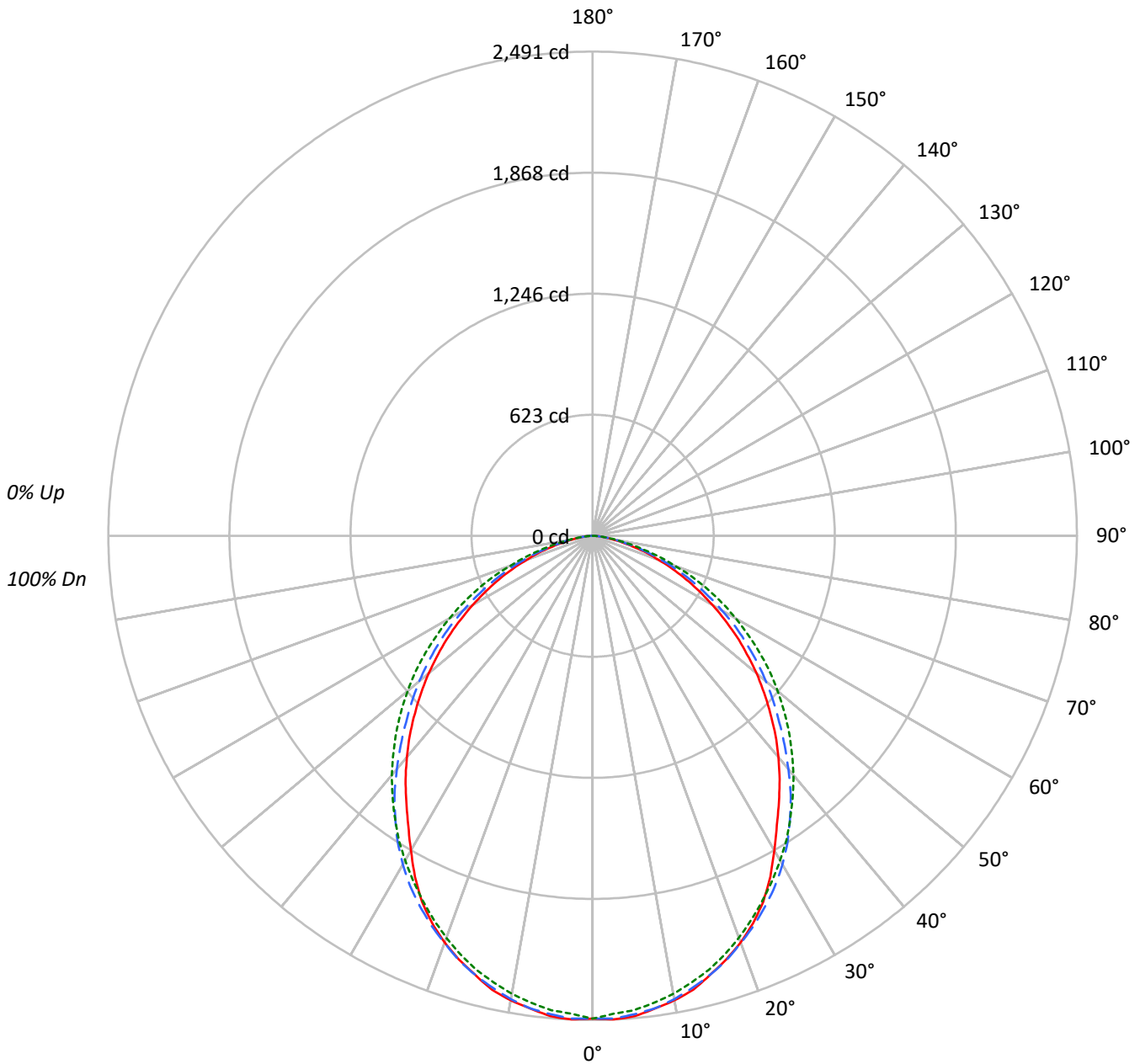
Lumens per Lamp: N/A  
Luminaire Lumens: 5744.0 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.8  
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°	13369	13369	13369
5°	13405	13349	13235
10°	13263	13226	13075
15°	13027	13027	12879
20°	12752	12768	12604
25°	12332	12485	12286
30°	11613	12135	11986
35°	10973	11631	11650
40°	10439	11003	11291
45°	9842	10336	10867
50°	9213	9740	10403
55°	8498	9062	9841
60°	7653	8269	9153
65°	6757	7353	8325
70°	5632	6263	7073
75°	4425	5001	5538
80°	3164	3521	3905
85°	2062	2062	1945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.9	4.1
10°-20°	657.1	11.4
20°-30°	960.2	16.7
30°-40°	1089.9	19.0
40°-50°	1052.1	18.3
50°-60°	867.9	15.1
60°-70°	578.0	10.1
70°-80°	258.6	4.5
80°-90°	46.3	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°	1851.1	32.2
0°-40°	2941.0	51.2
0°-60°	4861.1	84.6
0°-90°	5744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5744.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2484	2484	2484	2484	2484	
5°	2481	2480	2471	2457	2450	235
15°	2338	2344	2338	2328	2311	659
25°	2077	2093	2102	2087	2069	951
35°	1670	1693	1770	1780	1773	1046
45°	1293	1315	1358	1420	1428	998
55°	906	921	966	1019	1049	808
65°	531	545	577	618	654	526
75°	213	224	240	252	266	233
85°	33	33	33	32	32	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2484.1	2484.1	2484.1	2484.1	2484.1
2.5°	2490.8	2491.8	2486.0	2470.8	2461.2
5°	2481.3	2480.3	2470.8	2457.4	2449.8
7.5°	2453.6	2455.5	2452.6	2433.6	2423.1
10°	2426.9	2427.8	2420.2	2404.9	2392.5
12.5°	2392.5	2391.6	2381.1	2373.4	2353.4
15°	2338.1	2343.8	2338.1	2327.6	2311.4
17.5°	2285.6	2285.6	2289.4	2271.3	2258.9
20°	2226.5	2229.3	2229.3	2215.0	2200.7
22.5°	2157.7	2166.3	2169.2	2153.9	2136.8
25°	2076.6	2092.9	2102.4	2087.1	2069.0
27.5°	1978.3	2003.1	2031.8	2020.3	2000.3
30°	1868.6	1904.9	1952.6	1943.0	1928.7
32.5°	1764.6	1800.8	1866.7	1862.9	1855.2
35°	1670.1	1693.0	1770.3	1779.8	1773.2
37.5°	1580.4	1601.4	1673.9	1695.9	1690.1
40°	1485.9	1508.8	1566.1	1605.2	1607.1
42.5°	1392.4	1414.3	1461.1	1517.4	1517.4
45°	1293.1	1315.1	1358.0	1420.0	1427.7
47.5°	1195.8	1218.7	1260.7	1322.7	1335.1
50°	1100.3	1121.3	1163.3	1223.5	1242.5
52.5°	1001.1	1024.0	1065.0	1120.4	1148.1
55°	905.7	920.9	965.8	1019.2	1048.8
57.5°	806.4	820.7	871.3	917.1	947.7
60°	711.0	729.1	768.2	815.0	850.3
62.5°	619.4	638.4	671.9	712.9	753.0
65°	530.6	544.9	577.4	618.4	653.7
67.5°	444.7	457.1	489.6	518.2	555.4
70°	357.9	374.1	398.0	425.6	449.5
72.5°	288.2	294.9	314.9	335.0	359.8
75°	212.8	224.3	240.5	251.9	266.3
77.5°	152.7	159.4	168.9	178.5	191.8
80°	102.1	105.0	113.6	115.5	126.0
82.5°	62.0	63.9	65.8	66.8	70.6
85°	33.4	33.4	33.4	31.5	31.5
87.5°	19.1	19.1	16.2	13.4	9.5
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)