

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: P557495

Luminaire Tested: **FUSL-12-4-LD4-2STD-35-UNV-80-87-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: P557495
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-12-4-LD4-2STD-35-UNV-80-87-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

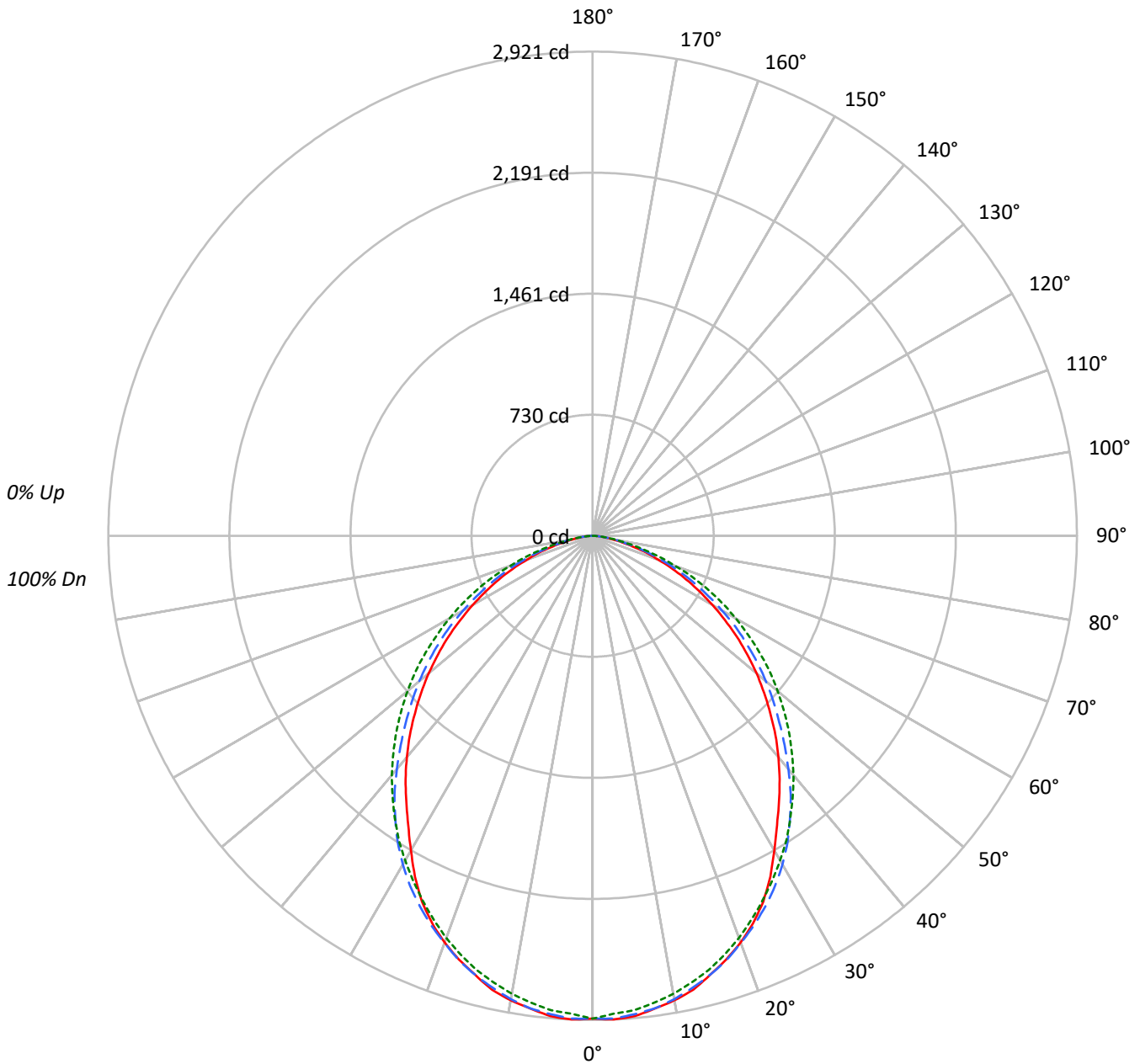
Lumens per Lamp: N/A
Luminaire Lumens: 6736.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (A_{in}): 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				20				
RC	80				70				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	100	100	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73	73	73	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63	63	63	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54	54	54	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47	47	47	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42	42	42	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37	37	37	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34	34	34	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30	30	30	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7839	7839	7839
5°	7860	7827	7760
10°	7777	7755	7667
15°	7639	7639	7551
20°	7477	7487	7391
25°	7231	7320	7204
30°	6809	7115	7028
35°	6434	6820	6831
40°	6121	6451	6620
45°	5771	6060	6371
50°	5402	5711	6100
55°	4983	5314	5770
60°	4487	4849	5367
65°	3962	4311	4881
70°	3302	3672	4147
75°	2595	2932	3246
80°	1855	2064	2289
85°	1210	1210	1139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.3	4.1
10°-20°	770.5	11.4
20°-30°	1126.0	16.7
30°-40°	1278.1	19.0
40°-50°	1233.8	18.3
50°-60°	1017.8	15.1
60°-70°	677.8	10.1
70°-80°	303.3	4.5
80°-90°	54.3	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°	2170.8	32.2
0°-40°	3449.0	51.2
0°-60°	5700.6	84.6
0°-90°	6736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2913	2913	2913	2913	2913	
5°	2910	2909	2898	2882	2873	275
15°	2742	2749	2742	2730	2711	773
25°	2435	2454	2466	2448	2426	1115
35°	1958	1985	2076	2087	2079	1227
45°	1516	1542	1592	1665	1674	1170
55°	1062	1080	1133	1195	1230	948
65°	622	639	677	725	767	617
75°	250	263	282	296	312	273
85°	39	39	39	37	37	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2913.1	2913.1	2913.1	2913.1	2913.1
2.5°	2921.0	2922.1	2915.4	2897.5	2886.3
5°	2909.8	2908.7	2897.5	2881.8	2872.9
7.5°	2877.3	2879.6	2876.2	2853.8	2841.5
10°	2846.0	2847.1	2838.2	2820.3	2805.7
12.5°	2805.7	2804.6	2792.3	2783.3	2759.8
15°	2741.9	2748.6	2741.9	2729.6	2710.6
17.5°	2680.4	2680.4	2684.8	2663.6	2649.0
20°	2611.0	2614.3	2614.3	2597.5	2580.8
22.5°	2530.4	2540.5	2543.8	2525.9	2505.8
25°	2435.3	2454.3	2465.5	2447.6	2426.3
27.5°	2320.0	2349.1	2382.7	2369.2	2345.7
30°	2191.3	2233.8	2289.8	2278.6	2261.8
32.5°	2069.3	2111.8	2189.1	2184.6	2175.6
35°	1958.5	1985.4	2076.0	2087.2	2079.4
37.5°	1853.3	1877.9	1963.0	1988.7	1982.0
40°	1742.5	1769.4	1836.5	1882.4	1884.6
42.5°	1632.8	1658.6	1713.4	1779.4	1779.4
45°	1516.4	1542.2	1592.5	1665.3	1674.2
47.5°	1402.3	1429.2	1478.4	1551.1	1565.7
50°	1290.4	1315.0	1364.2	1434.7	1457.1
52.5°	1174.0	1200.8	1249.0	1313.9	1346.3
55°	1062.1	1080.0	1132.6	1195.3	1229.9
57.5°	945.7	962.5	1021.8	1075.5	1111.3
60°	833.8	855.0	900.9	955.8	997.2
62.5°	726.3	748.7	787.9	836.0	883.0
65°	622.2	639.0	677.1	725.2	766.6
67.5°	521.5	536.1	574.1	607.7	651.3
70°	419.7	438.7	466.7	499.1	527.1
72.5°	338.0	345.8	369.3	392.8	421.9
75°	249.6	263.0	282.0	295.5	312.2
77.5°	179.1	186.9	198.1	209.3	224.9
80°	119.7	123.1	133.2	135.4	147.7
82.5°	72.7	75.0	77.2	78.3	82.8
85°	39.2	39.2	39.2	36.9	36.9
87.5°	22.4	22.4	19.0	15.7	11.2
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)