

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: P557631

Luminaire Tested: **FUSL-12-4-LD4-2STD-50-UNV-80-97-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: P557631
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-50-UNV-80-97-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

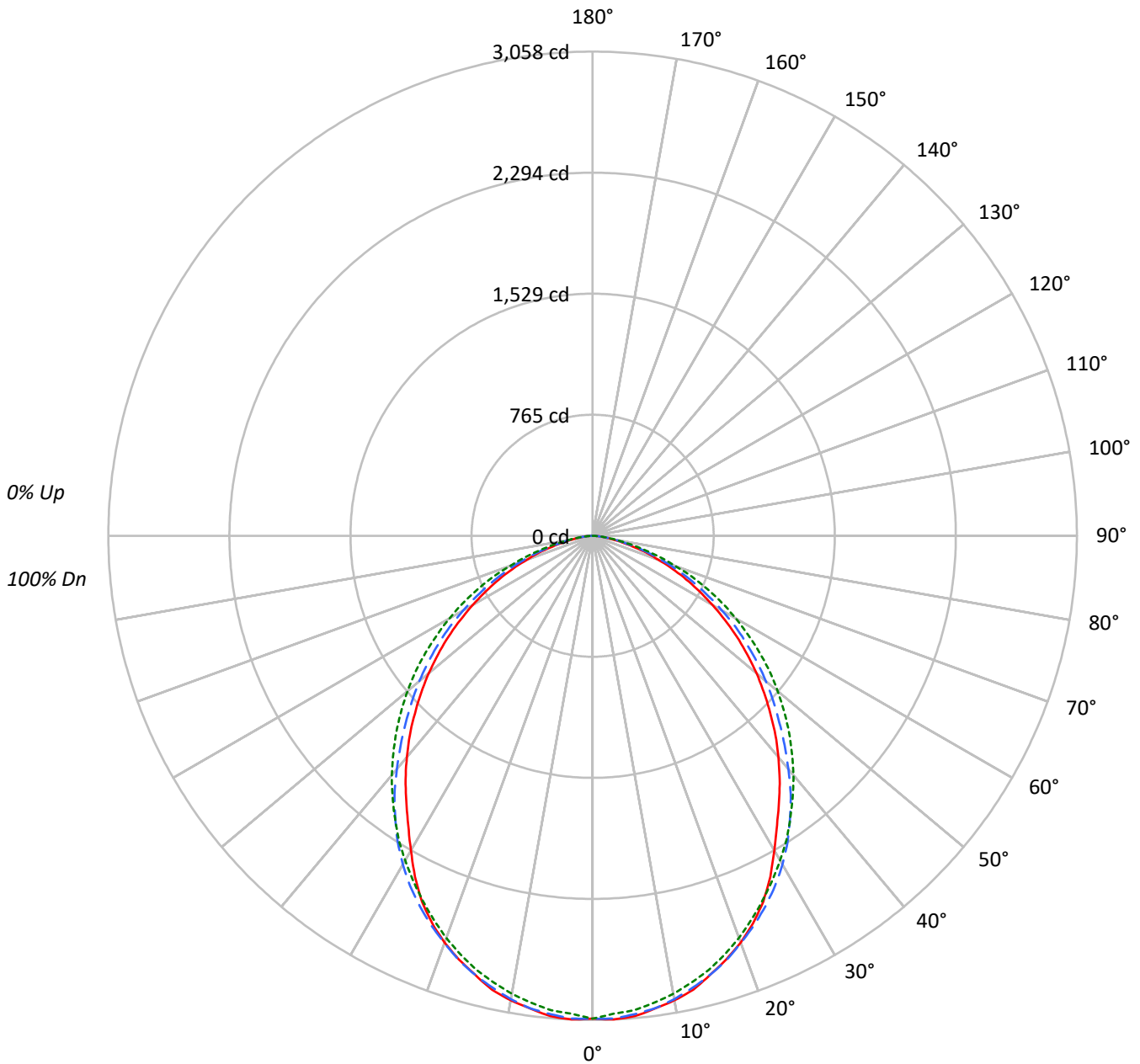
Lumens per Lamp: N/A
Luminaire Lumens: 7052.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P557631

CATALOG NUMBER: FUSL-12-4-LD4-2STD-50-UNV-80-97-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P557631

CATALOG NUMBER: FUSL-12-4-LD4-2STD-50-UNV-80-97-EDD

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°	8207	8207	8207
5°	8229	8194	8124
10°	8141	8119	8026
15°	7997	7997	7906
20°	7828	7838	7737
25°	7570	7664	7542
30°	7128	7449	7358
35°	6736	7140	7151
40°	6408	6754	6931
45°	6042	6345	6670
50°	5655	5979	6386
55°	5217	5563	6041
60°	4698	5076	5618
65°	4148	4513	5110
70°	3457	3844	4342
75°	2717	3070	3399
80°	1943	2160	2397
85°	1266	1266	1195



TEST NUMBER: P557631

CATALOG NUMBER: FUSL-12-4-LD4-2STD-50-UNV-80-97-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	4.1
10°-20°	806.7	11.4
20°-30°	1178.8	16.7
30°-40°	1338.1	19.0
40°-50°	1291.7	18.3
50°-60°	1065.6	15.1
60°-70°	709.6	10.1
70°-80°	317.5	4.5
80°-90°	56.8	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°	2272.7	32.2
0°-40°	3610.7	51.2
0°-60°	5968.1	84.6
0°-90°	7052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3050	3050	3050	3050	3050	
5°	3046	3045	3033	3017	3008	288
15°	2870	2878	2870	2858	2838	809
25°	2550	2569	2581	2562	2540	1168
35°	2050	2078	2173	2185	2177	1285
45°	1588	1614	1667	1743	1753	1225
55°	1112	1131	1186	1251	1288	992
65°	651	669	709	759	803	646
75°	261	275	295	309	327	286
85°	41	41	41	39	39	55
90°	0	0	0	0	0	



TEST NUMBER: P557631

CATALOG NUMBER: FUSL-12-4-LD4-2STD-50-UNV-80-97-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3049.8	3049.8	3049.8	3049.8	3049.8
2.5°	3058.0	3059.2	3052.2	3033.4	3021.7
5°	3046.3	3045.1	3033.4	3017.0	3007.6
7.5°	3012.3	3014.7	3011.1	2987.7	2974.8
10°	2979.5	2980.7	2971.3	2952.6	2937.3
12.5°	2937.3	2936.2	2923.3	2913.9	2889.3
15°	2870.5	2877.6	2870.5	2857.7	2837.7
17.5°	2806.1	2806.1	2810.8	2788.5	2773.3
20°	2733.5	2737.0	2737.0	2719.4	2701.8
22.5°	2649.1	2659.6	2663.2	2644.4	2623.3
25°	2549.5	2569.4	2581.1	2562.4	2540.1
27.5°	2428.8	2459.3	2494.4	2480.4	2455.8
30°	2294.1	2338.6	2397.2	2385.5	2367.9
32.5°	2166.4	2210.9	2291.7	2287.1	2277.7
35°	2050.4	2078.5	2173.4	2185.1	2176.9
37.5°	1940.3	1966.0	2055.1	2082.0	2075.0
40°	1824.3	1852.4	1922.7	1970.7	1973.1
42.5°	1709.4	1736.4	1793.8	1862.9	1862.9
45°	1587.6	1614.5	1667.3	1743.4	1752.8
47.5°	1468.1	1496.2	1547.8	1623.9	1639.1
50°	1350.9	1376.7	1428.2	1502.1	1525.5
52.5°	1229.1	1257.2	1307.6	1375.5	1409.5
55°	1111.9	1130.6	1185.7	1251.3	1287.6
57.5°	990.0	1007.6	1069.7	1126.0	1163.4
60°	872.9	895.1	943.2	1000.6	1043.9
62.5°	760.4	783.8	824.8	875.2	924.4
65°	651.4	669.0	708.8	759.2	802.6
67.5°	546.0	561.2	601.1	636.2	681.9
70°	439.4	459.3	488.6	522.6	551.8
72.5°	353.8	362.0	386.6	411.2	441.7
75°	261.3	275.3	295.3	309.3	326.9
77.5°	187.5	195.7	207.4	219.1	235.5
80°	125.4	128.9	139.4	141.8	154.7
82.5°	76.2	78.5	80.8	82.0	86.7
85°	41.0	41.0	41.0	38.7	38.7
87.5°	23.4	23.4	19.9	16.4	11.7
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)