

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: P557427

Luminaire Tested: **FUSL-12-4-LD4-2STD-30-UNV-80-85-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: P557427
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-30-UNV-80-85-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

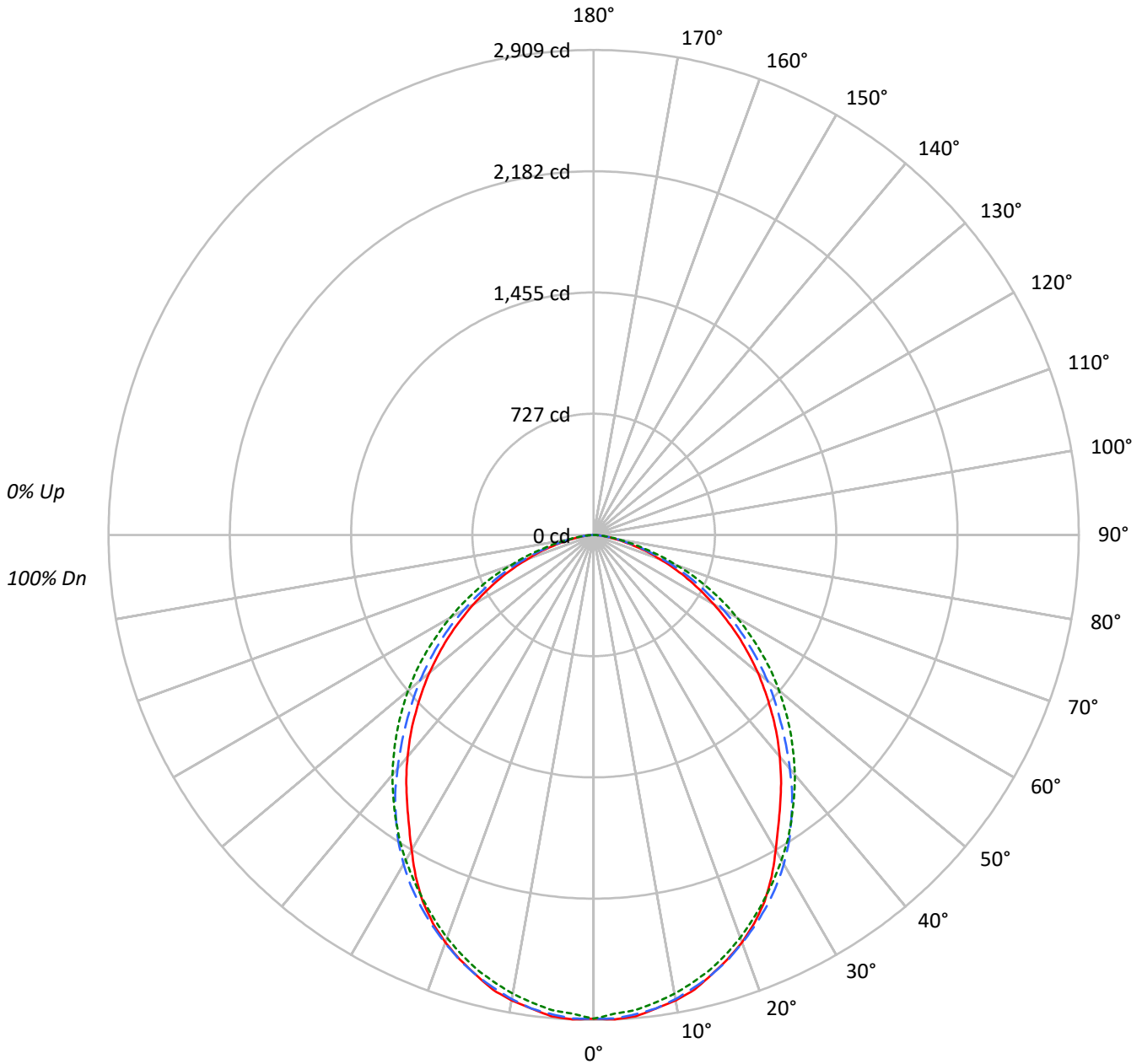
Lumens per Lamp: N/A
Luminaire Lumens: 6709.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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									
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°	7808	7808	7808
5°	7829	7796	7729
10°	7746	7724	7636
15°	7608	7608	7521
20°	7447	7457	7361
25°	7202	7291	7175
30°	6782	7086	7000
35°	6408	6793	6803
40°	6097	6426	6594
45°	5748	6036	6346
50°	5380	5689	6076
55°	4963	5292	5747
60°	4469	4829	5345
65°	3947	4294	4862
70°	3289	3657	4131
75°	2585	2921	3234
80°	1849	2055	2280
85°	1204	1204	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.2	4.1
10°-20°	767.4	11.4
20°-30°	1121.5	16.7
30°-40°	1273.0	19.0
40°-50°	1228.9	18.3
50°-60°	1013.8	15.1
60°-70°	675.1	10.1
70°-80°	302.1	4.5
80°-90°	54.0	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°	2162.1	32.2
0°-40°	3435.1	51.2
0°-60°	5677.8	84.6
0°-90°	6709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2902	2902	2902	2902	2902	
5°	2898	2897	2886	2870	2861	274
15°	2731	2738	2731	2719	2700	770
25°	2426	2444	2456	2438	2417	1111
35°	1951	1977	2068	2079	2071	1222
45°	1510	1536	1586	1659	1668	1165
55°	1058	1076	1128	1190	1225	944
65°	620	636	674	722	764	615
75°	249	262	281	294	311	272
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°	2901.5	2901.5	2901.5	2901.5	2901.5
2.5°	2909.3	2910.4	2903.7	2885.9	2874.7
5°	2898.1	2897.0	2885.9	2870.3	2861.3
7.5°	2865.8	2868.0	2864.7	2842.4	2830.1
10°	2834.6	2835.7	2826.8	2809.0	2794.5
12.5°	2794.5	2793.3	2781.1	2772.2	2748.8
15°	2730.9	2737.6	2730.9	2718.7	2699.7
17.5°	2669.6	2669.6	2674.1	2652.9	2638.4
20°	2600.5	2603.9	2603.9	2587.1	2570.4
22.5°	2520.3	2530.3	2533.6	2515.8	2495.7
25°	2425.5	2444.5	2455.6	2437.8	2416.6
27.5°	2310.7	2339.7	2373.1	2359.7	2336.3
30°	2182.5	2224.9	2280.6	2269.5	2252.7
32.5°	2061.0	2103.4	2180.3	2175.8	2166.9
35°	1950.7	1977.4	2067.7	2078.8	2071.0
37.5°	1845.9	1870.4	1955.1	1980.8	1974.1
40°	1735.5	1762.3	1829.2	1874.9	1877.1
42.5°	1626.3	1651.9	1706.5	1772.3	1772.3
45°	1510.4	1536.0	1586.2	1658.6	1667.5
47.5°	1396.7	1423.4	1472.5	1544.9	1559.4
50°	1285.2	1309.7	1358.8	1429.0	1451.3
52.5°	1169.3	1196.0	1244.0	1308.6	1340.9
55°	1057.8	1075.7	1128.0	1190.5	1225.0
57.5°	941.9	958.6	1017.7	1071.2	1106.9
60°	830.4	851.6	897.3	951.9	993.2
62.5°	723.4	745.7	784.7	832.7	879.5
65°	619.8	636.5	674.4	722.3	763.5
67.5°	519.4	533.9	571.8	605.3	648.7
70°	418.0	436.9	464.8	497.1	525.0
72.5°	336.6	344.4	367.8	391.2	420.2
75°	248.6	261.9	280.9	294.3	311.0
77.5°	178.3	186.1	197.3	208.4	224.0
80°	119.3	122.6	132.6	134.9	147.1
82.5°	72.5	74.7	76.9	78.0	82.5
85°	39.0	39.0	39.0	36.8	36.8
87.5°	22.3	22.3	18.9	15.6	11.1
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)