

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: P557467

Luminaire Tested: **FUSL-12-4-LD4-2STD-30-UNV-82-94-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: P557467
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-82-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

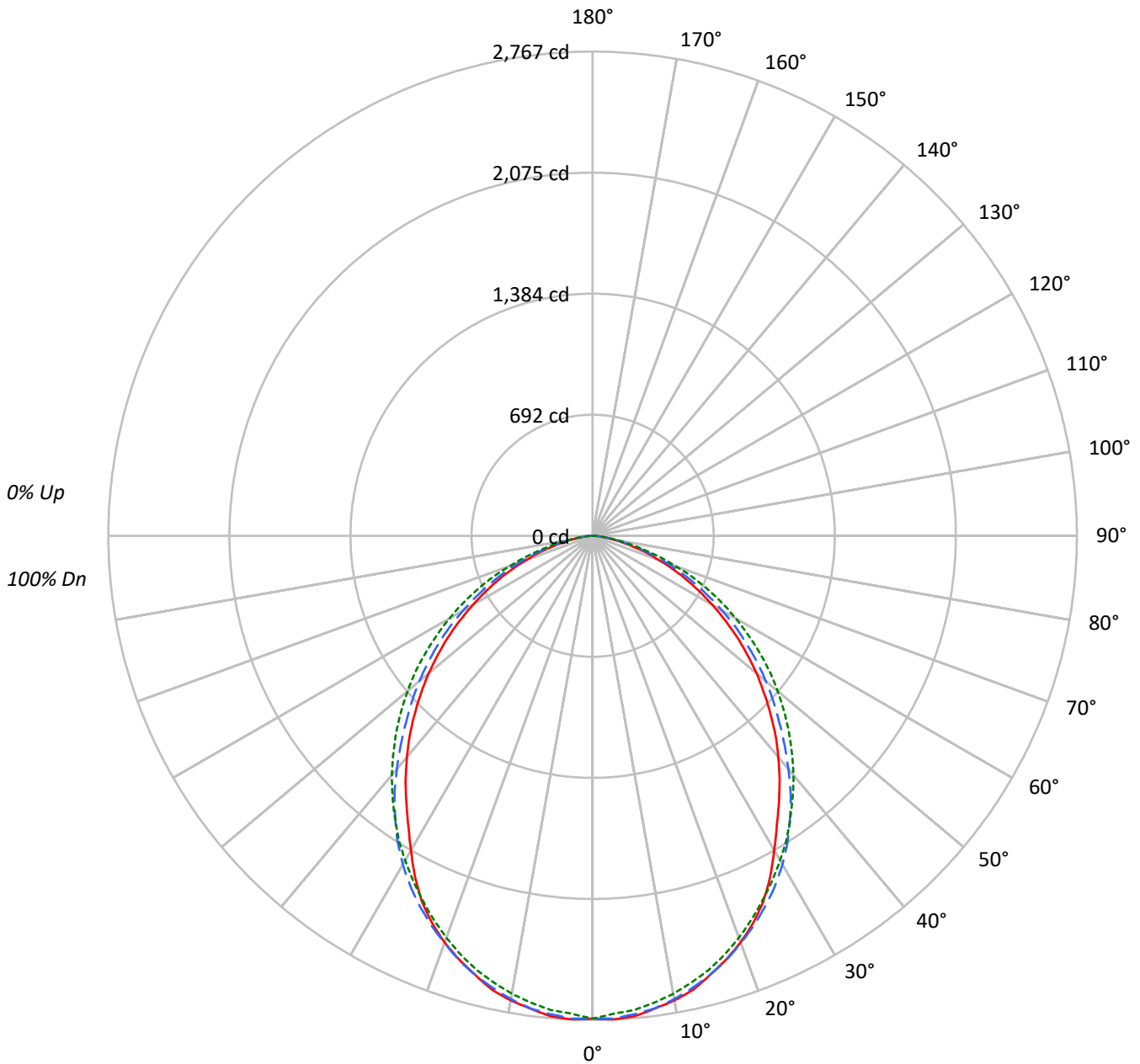
Lumens per Lamp: N/A
Luminaire Lumens: 6380.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	7425	7425	7425
5°	7445	7413	7350
10°	7366	7345	7261
15°	7235	7235	7152
20°	7082	7091	7000
25°	6849	6934	6823
30°	6449	6739	6657
35°	6094	6459	6470
40°	5798	6111	6270
45°	5466	5740	6035
50°	5117	5409	5778
55°	4719	5033	5465
60°	4250	4592	5083
65°	3753	4083	4623
70°	3127	3478	3928
75°	2458	2777	3074
80°	1757	1954	2168
85°	1145	1145	1081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.8	4.1
10°-20°	729.8	11.4
20°-30°	1066.5	16.7
30°-40°	1210.6	19.0
40°-50°	1168.6	18.3
50°-60°	964.0	15.1
60°-70°	642.0	10.1
70°-80°	287.3	4.5
80°-90°	51.4	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°	2056.1	32.2
0°-40°	3266.7	51.2
0°-60°	5399.4	84.6
0°-90°	6380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6380.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2759	2759	2759	2759	2759	
5°	2756	2755	2744	2730	2721	261
15°	2597	2603	2597	2585	2567	732
25°	2307	2325	2335	2318	2298	1056
35°	1855	1880	1966	1977	1970	1162
45°	1436	1461	1508	1577	1586	1108
55°	1006	1023	1073	1132	1165	898
65°	589	605	641	687	726	584
75°	236	249	267	280	296	258
85°	37	37	37	35	35	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2759.2	2759.2	2759.2	2759.2	2759.2
2.5°	2766.6	2767.7	2761.3	2744.3	2733.7
5°	2756.0	2754.9	2744.3	2729.5	2721.0
7.5°	2725.3	2727.4	2724.2	2703.0	2691.3
10°	2695.6	2696.6	2688.2	2671.2	2657.4
12.5°	2657.4	2656.4	2644.7	2636.2	2614.0
15°	2597.0	2603.4	2597.0	2585.3	2567.3
17.5°	2538.7	2538.7	2542.9	2522.8	2509.0
20°	2473.0	2476.2	2476.2	2460.3	2444.4
22.5°	2396.7	2406.2	2409.4	2392.4	2373.3
25°	2306.6	2324.6	2335.2	2318.2	2298.1
27.5°	2197.4	2224.9	2256.7	2244.0	2221.8
30°	2075.5	2115.8	2168.8	2158.2	2142.3
32.5°	1959.9	2000.2	2073.4	2069.1	2060.6
35°	1855.0	1880.4	1966.3	1976.9	1969.5
37.5°	1755.4	1778.7	1859.2	1883.6	1877.3
40°	1650.4	1675.9	1739.5	1782.9	1785.0
42.5°	1546.5	1570.9	1622.9	1685.4	1685.4
45°	1436.3	1460.7	1508.4	1577.3	1585.8
47.5°	1328.2	1353.6	1400.3	1469.2	1482.9
50°	1222.2	1245.5	1292.1	1358.9	1380.1
52.5°	1111.9	1137.4	1183.0	1244.4	1275.2
55°	1005.9	1022.9	1072.7	1132.1	1164.9
57.5°	895.7	911.6	967.8	1018.7	1052.6
60°	789.7	809.8	853.3	905.2	944.5
62.5°	687.9	709.1	746.2	791.8	836.3
65°	589.4	605.3	641.3	686.9	726.1
67.5°	494.0	507.7	543.8	575.6	616.9
70°	397.5	415.5	442.0	472.8	499.3
72.5°	320.1	327.5	349.8	372.1	399.6
75°	236.4	249.1	267.1	279.8	295.7
77.5°	169.6	177.0	187.6	198.2	213.1
80°	113.4	116.6	126.1	128.3	139.9
82.5°	68.9	71.0	73.1	74.2	78.4
85°	37.1	37.1	37.1	35.0	35.0
87.5°	21.2	21.2	18.0	14.8	10.6
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)