

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: P557525

Luminaire Tested: **FUSL-12-4-LD4-2STD-35-UNV-82-86-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: P557525
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-82-86-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

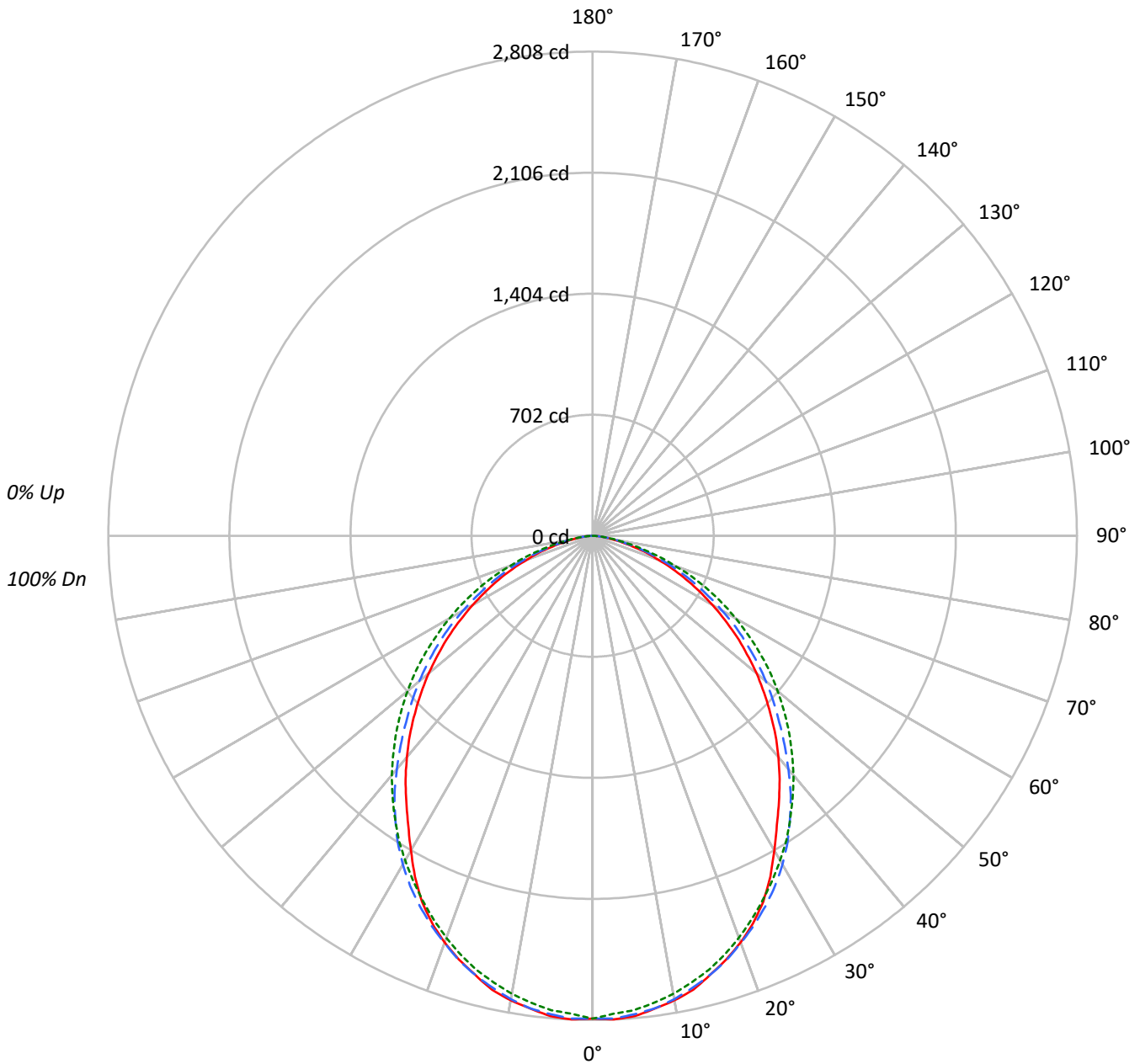
Lumens per Lamp: N/A
Luminaire Lumens: 6475.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (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°	7536	7536	7536
5°	7555	7524	7460
10°	7475	7455	7370
15°	7343	7343	7259
20°	7187	7196	7104
25°	6951	7037	6925
30°	6545	6839	6756
35°	6184	6556	6566
40°	5884	6202	6364
45°	5547	5826	6125
50°	5193	5490	5864
55°	4790	5108	5547
60°	4314	4661	5159
65°	3808	4145	4692
70°	3174	3530	3987
75°	2494	2819	3120
80°	1784	1984	2201
85°	1164	1164	1096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.7	4.1
10°-20°	740.7	11.4
20°-30°	1082.4	16.7
30°-40°	1228.6	19.0
40°-50°	1186.0	18.3
50°-60°	978.4	15.1
60°-70°	651.5	10.1
70°-80°	291.6	4.5
80°-90°	52.2	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°	2086.7	32.2
0°-40°	3315.3	51.2
0°-60°	5479.7	84.6
0°-90°	6475.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6475.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2800	2800	2800	2800	2800	
5°	2797	2796	2785	2770	2762	265
15°	2636	2642	2636	2624	2606	743
25°	2341	2359	2370	2353	2332	1072
35°	1883	1908	1996	2006	1999	1180
45°	1458	1482	1531	1601	1609	1125
55°	1021	1038	1089	1149	1182	911
65°	598	614	651	697	737	593
75°	240	253	271	284	300	262
85°	38	38	38	36	36	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2800.3	2800.3	2800.3	2800.3	2800.3
2.5°	2807.8	2808.9	2802.4	2785.2	2774.5
5°	2797.0	2796.0	2785.2	2770.1	2761.5
7.5°	2765.8	2768.0	2764.8	2743.3	2731.4
10°	2735.7	2736.8	2728.2	2711.0	2697.0
12.5°	2697.0	2695.9	2684.1	2675.5	2652.9
15°	2635.7	2642.1	2635.7	2623.8	2605.6
17.5°	2576.5	2576.5	2580.8	2560.4	2546.4
20°	2509.8	2513.0	2513.0	2496.9	2480.8
22.5°	2432.4	2442.0	2445.3	2428.0	2408.7
25°	2340.9	2359.2	2370.0	2352.7	2332.3
27.5°	2230.1	2258.1	2290.3	2277.4	2254.8
30°	2106.4	2147.3	2201.1	2190.3	2174.2
32.5°	1989.1	2030.0	2104.2	2099.9	2091.3
35°	1882.6	1908.4	1995.6	2006.3	1998.8
37.5°	1781.5	1805.2	1886.9	1911.7	1905.2
40°	1675.0	1700.8	1765.4	1809.5	1811.6
42.5°	1569.6	1594.3	1647.0	1710.5	1710.5
45°	1457.7	1482.4	1530.8	1600.8	1609.4
47.5°	1348.0	1373.8	1421.1	1491.0	1505.0
50°	1240.4	1264.0	1311.4	1379.2	1400.7
52.5°	1128.5	1154.3	1200.6	1263.0	1294.2
55°	1020.9	1038.1	1088.7	1148.9	1182.3
57.5°	909.0	925.2	982.2	1033.8	1068.3
60°	801.5	821.9	866.0	918.7	958.5
62.5°	698.2	719.7	757.4	803.6	848.8
65°	598.1	614.3	650.9	697.1	736.9
67.5°	501.3	515.3	551.9	584.2	626.1
70°	403.4	421.7	448.6	479.8	506.7
72.5°	324.9	332.4	355.0	377.6	405.6
75°	239.9	252.8	271.1	284.0	300.1
77.5°	172.1	179.7	190.4	201.2	216.2
80°	115.1	118.3	128.0	130.2	142.0
82.5°	69.9	72.1	74.2	75.3	79.6
85°	37.7	37.7	37.7	35.5	35.5
87.5°	21.5	21.5	18.3	15.1	10.8
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)