

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: P557945

Luminaire Tested: **FUSL-12-4-LD4-3LO-30-UNV-80-88-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: P557945
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-LD4-3LO-30-UNV-80-88-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

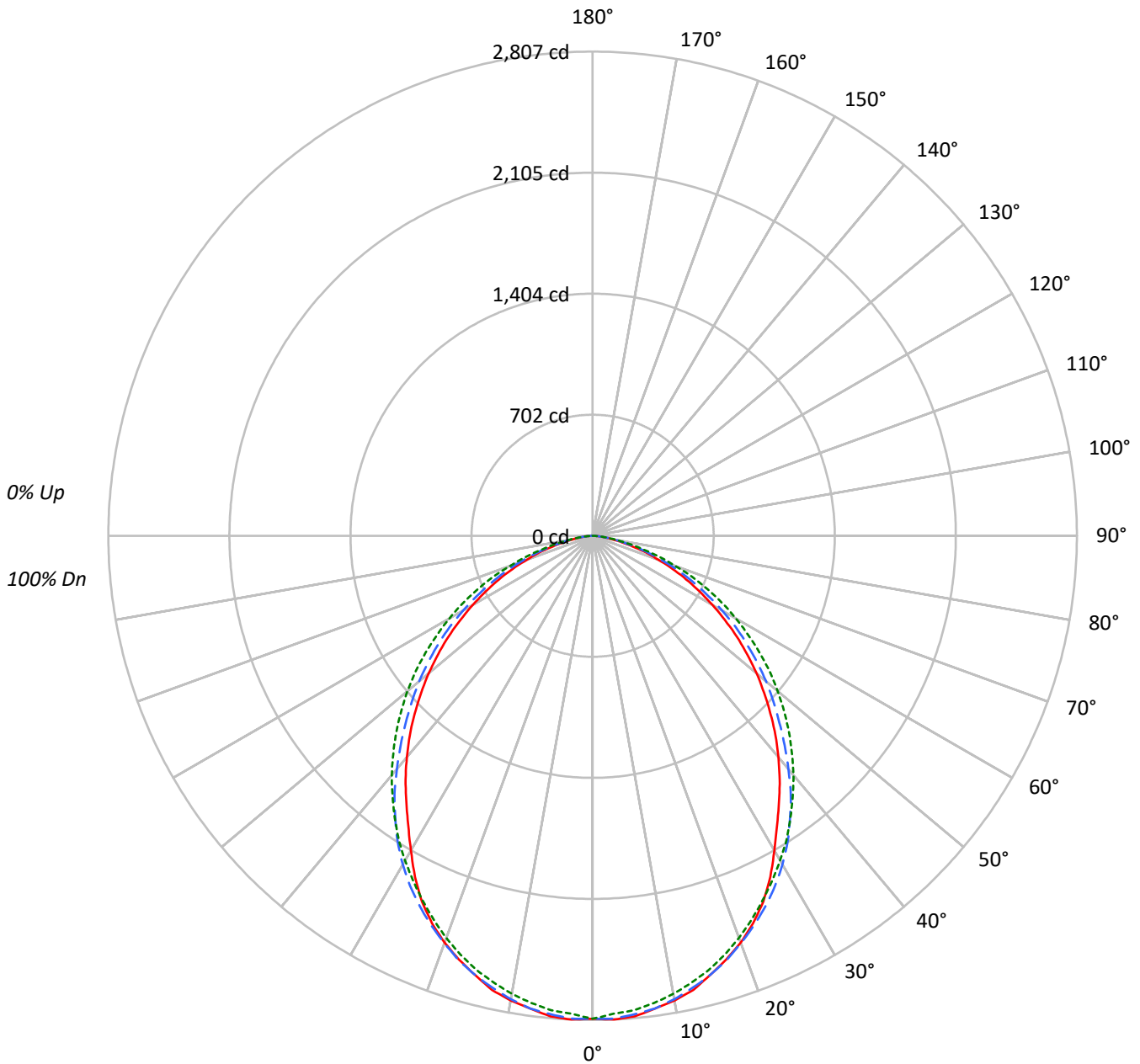
Lumens per Lamp: N/A
Luminaire Lumens: 6474.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	7534	7534	7534
5°	7554	7522	7458
10°	7474	7454	7368
15°	7342	7342	7258
20°	7186	7195	7103
25°	6949	7036	6924
30°	6544	6838	6755
35°	6184	6555	6565
40°	5883	6200	6363
45°	5547	5825	6124
50°	5192	5489	5863
55°	4789	5107	5546
60°	4313	4660	5158
65°	3808	4143	4691
70°	3174	3529	3986
75°	2494	2819	3120
80°	1784	1984	2201
85°	1161	1161	1096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.6	4.1
10°-20°	740.6	11.4
20°-30°	1082.2	16.7
30°-40°	1228.4	19.0
40°-50°	1185.9	18.3
50°-60°	978.3	15.1
60°-70°	651.4	10.1
70°-80°	291.5	4.5
80°-90°	52.1	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°	2086.4	32.2
0°-40°	3314.8	51.2
0°-60°	5478.9	84.6
0°-90°	6474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2800	2800	2800	2800	2800	
5°	2797	2796	2785	2770	2761	265
15°	2635	2642	2635	2623	2605	743
25°	2340	2359	2370	2352	2332	1072
35°	1882	1908	1995	2006	1998	1179
45°	1458	1482	1531	1600	1609	1125
55°	1021	1038	1088	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°	2799.8	2799.8	2799.8	2799.8	2799.8
2.5°	2807.4	2808.4	2802.0	2784.8	2774.0
5°	2796.6	2795.5	2784.8	2769.7	2761.1
7.5°	2765.4	2767.6	2764.3	2742.8	2731.0
10°	2735.3	2736.4	2727.8	2710.6	2696.6
12.5°	2696.6	2695.5	2683.7	2675.1	2652.5
15°	2635.3	2641.7	2635.3	2623.4	2605.2
17.5°	2576.1	2576.1	2580.4	2560.0	2546.0
20°	2509.4	2512.6	2512.6	2496.5	2480.4
22.5°	2432.0	2441.7	2444.9	2427.7	2408.3
25°	2340.5	2358.8	2369.6	2352.4	2331.9
27.5°	2229.8	2257.7	2290.0	2277.1	2254.5
30°	2106.1	2146.9	2200.7	2190.0	2173.8
32.5°	1988.8	2029.7	2103.9	2099.6	2091.0
35°	1882.3	1908.1	1995.3	2006.0	1998.5
37.5°	1781.2	1804.9	1886.6	1911.4	1904.9
40°	1674.7	1700.6	1765.1	1809.2	1811.3
42.5°	1569.3	1594.1	1646.8	1710.2	1710.2
45°	1457.5	1482.2	1530.6	1600.5	1609.1
47.5°	1347.8	1373.6	1420.9	1490.8	1504.8
50°	1240.2	1263.9	1311.2	1378.9	1400.5
52.5°	1128.3	1154.1	1200.4	1262.8	1294.0
55°	1020.8	1038.0	1088.5	1148.8	1182.1
57.5°	908.9	925.0	982.0	1033.7	1068.1
60°	801.3	821.8	865.9	918.6	958.4
62.5°	698.1	719.6	757.2	803.5	848.7
65°	598.0	614.2	650.7	697.0	736.8
67.5°	501.2	515.2	551.8	584.1	626.0
70°	403.4	421.6	448.5	479.7	506.6
72.5°	324.8	332.4	355.0	377.5	405.5
75°	239.9	252.8	271.1	284.0	300.1
77.5°	172.1	179.6	190.4	201.1	216.2
80°	115.1	118.3	128.0	130.1	142.0
82.5°	69.9	72.1	74.2	75.3	79.6
85°	37.6	37.6	37.6	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)