

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: P557628

Luminaire Tested: **FUSL-12-4-LD4-2STD-50-UNV-80-96-EDD-90**

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: P557628
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-80-96-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

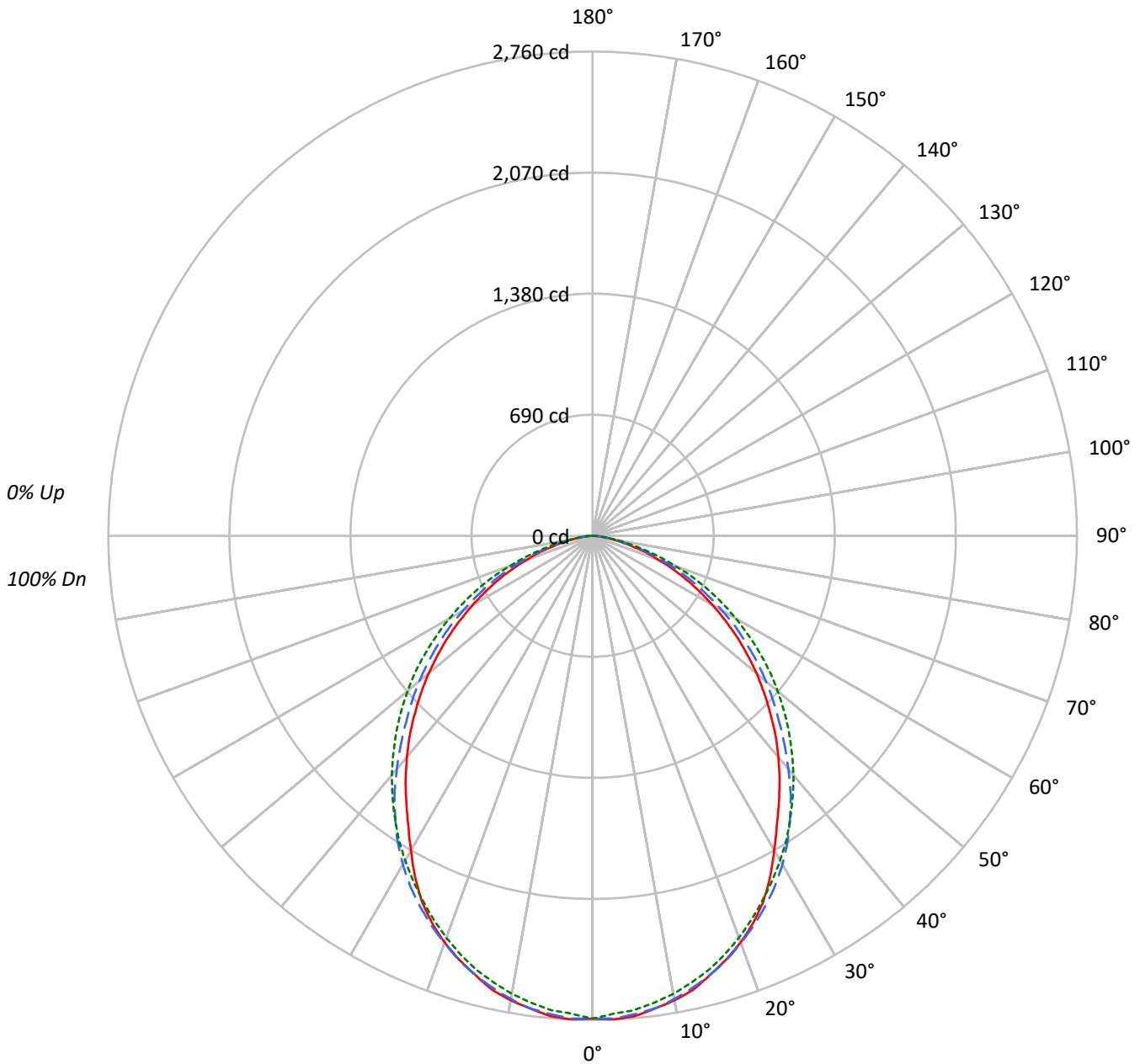
Lumens per Lamp: N/A
Luminaire Lumens: 6364.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	7406	7406	7406
5°	7426	7395	7332
10°	7347	7327	7243
15°	7217	7217	7134
20°	7064	7073	6982
25°	6831	6916	6806
30°	6433	6722	6640
35°	6079	6443	6454
40°	5783	6095	6255
45°	5452	5726	6020
50°	5104	5396	5763
55°	4708	5020	5452
60°	4239	4581	5070
65°	3743	4073	4612
70°	3120	3469	3918
75°	2452	2771	3067
80°	1753	1949	2163
85°	1142	1142	1078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	4.1
10°-20°	728.0	11.4
20°-30°	1063.8	16.7
30°-40°	1207.6	19.0
40°-50°	1165.7	18.3
50°-60°	961.6	15.1
60°-70°	640.4	10.1
70°-80°	286.5	4.5
80°-90°	51.3	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°	2050.9	32.2
0°-40°	3258.5	51.2
0°-60°	5385.8	84.6
0°-90°	6364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6364.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2752	2752	2752	2752	2752	
5°	2749	2748	2738	2723	2714	260
15°	2590	2597	2590	2579	2561	730
25°	2301	2319	2329	2312	2292	1054
35°	1850	1876	1961	1972	1964	1159
45°	1433	1457	1505	1573	1582	1105
55°	1003	1020	1070	1129	1162	896
65°	588	604	640	685	724	583
75°	236	248	266	279	295	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°	2752.3	2752.3	2752.3	2752.3	2752.3
2.5°	2759.7	2760.7	2754.4	2737.5	2726.9
5°	2749.1	2748.0	2737.5	2722.7	2714.2
7.5°	2718.4	2720.5	2717.4	2696.2	2684.6
10°	2688.8	2689.9	2681.4	2664.5	2650.8
12.5°	2650.8	2649.7	2638.1	2629.6	2607.4
15°	2590.5	2596.8	2590.5	2578.9	2560.9
17.5°	2532.3	2532.3	2536.6	2516.5	2502.7
20°	2466.8	2470.0	2470.0	2454.1	2438.2
22.5°	2390.7	2400.2	2403.3	2386.4	2367.4
25°	2300.8	2318.8	2329.3	2312.4	2292.3
27.5°	2191.9	2219.4	2251.1	2238.4	2216.2
30°	2070.3	2110.5	2163.3	2152.8	2136.9
32.5°	1955.0	1995.2	2068.2	2063.9	2055.5
35°	1850.4	1875.7	1961.4	1971.9	1964.5
37.5°	1751.0	1774.2	1854.6	1878.9	1872.6
40°	1646.3	1671.7	1735.1	1778.5	1780.6
42.5°	1542.7	1567.0	1618.8	1681.2	1681.2
45°	1432.7	1457.0	1504.6	1573.3	1581.8
47.5°	1324.9	1350.2	1396.8	1465.5	1479.2
50°	1219.1	1242.4	1288.9	1355.5	1376.7
52.5°	1109.2	1134.5	1180.0	1241.3	1272.0
55°	1003.4	1020.3	1070.0	1129.2	1162.0
57.5°	893.5	909.3	965.4	1016.1	1049.9
60°	787.7	807.8	851.2	903.0	942.1
62.5°	686.2	707.4	744.4	789.8	834.2
65°	587.9	603.7	639.7	685.2	724.3
67.5°	492.7	506.5	542.4	574.1	615.4
70°	396.5	414.5	440.9	471.6	498.0
72.5°	319.3	326.7	348.9	371.1	398.6
75°	235.8	248.5	266.5	279.1	295.0
77.5°	169.2	176.6	187.1	197.7	212.5
80°	113.1	116.3	125.8	127.9	139.6
82.5°	68.7	70.8	73.0	74.0	78.2
85°	37.0	37.0	37.0	34.9	34.9
87.5°	21.1	21.1	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)