

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: P557949

Luminaire Tested: **FUSL-12-4-LD4-3LO-30-UNV-80-96-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: P557949
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-80-96-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

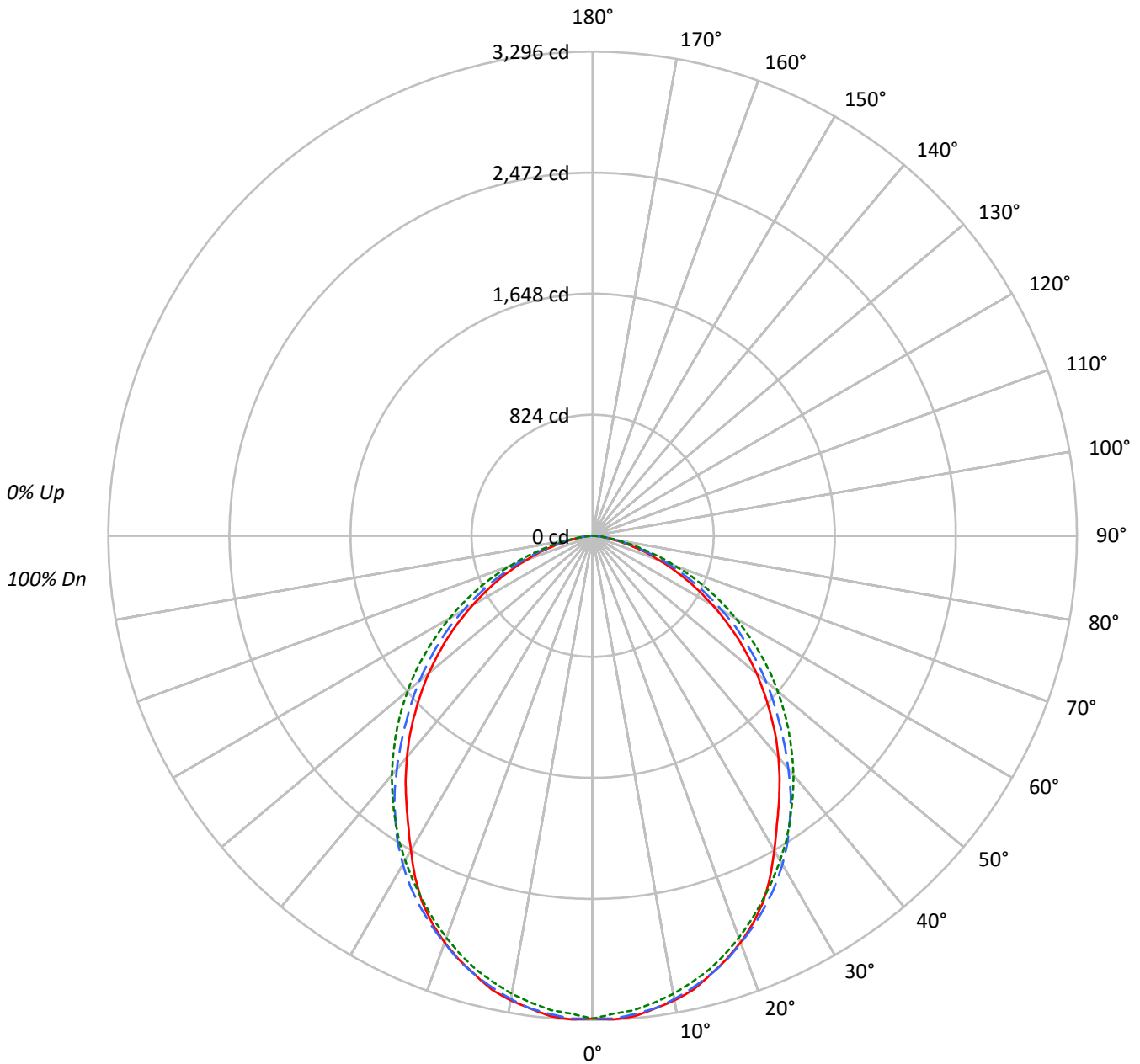
Lumens per Lamp: N/A
Luminaire Lumens: 7600.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	8845	8845	8845
5°	8868	8831	8756
10°	8774	8750	8650
15°	8618	8618	8520
20°	8436	8447	8338
25°	8158	8259	8128
30°	7682	8028	7929
35°	7259	7695	7707
40°	6906	7279	7470
45°	6511	6838	7189
50°	6095	6444	6882
55°	5622	5995	6511
60°	5063	5471	6055
65°	4471	4864	5507
70°	3725	4142	4679
75°	2928	3308	3663
80°	2094	2329	2583
85°	1365	1365	1288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.5	4.1
10°-20°	869.4	11.4
20°-30°	1270.4	16.7
30°-40°	1442.1	19.0
40°-50°	1392.1	18.3
50°-60°	1148.4	15.1
60°-70°	764.7	10.1
70°-80°	342.2	4.5
80°-90°	61.2	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°	2449.3	32.2
0°-40°	3891.3	51.2
0°-60°	6431.8	84.6
0°-90°	7600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3287	3287	3287	3287	3287	
5°	3283	3282	3269	3251	3241	311
15°	3094	3101	3094	3080	3058	872
25°	2748	2769	2782	2762	2738	1258
35°	2210	2240	2342	2355	2346	1385
45°	1711	1740	1797	1879	1889	1320
55°	1198	1218	1278	1349	1388	1070
65°	702	721	764	818	865	696
75°	282	297	318	333	352	308
85°	44	44	44	42	42	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3286.8	3286.8	3286.8	3286.8	3286.8
2.5°	3295.6	3296.9	3289.3	3269.1	3256.5
5°	3283.0	3281.8	3269.1	3251.4	3241.3
7.5°	3246.4	3248.9	3245.1	3219.9	3206.0
10°	3211.0	3212.3	3202.2	3182.0	3165.6
12.5°	3165.6	3164.3	3150.4	3140.3	3113.8
15°	3093.6	3101.2	3093.6	3079.7	3058.3
17.5°	3024.2	3024.2	3029.2	3005.2	2988.8
20°	2945.9	2949.7	2949.7	2930.7	2911.8
22.5°	2855.0	2866.3	2870.1	2849.9	2827.2
25°	2747.6	2769.1	2781.7	2761.5	2737.5
27.5°	2617.6	2650.4	2688.3	2673.1	2646.6
30°	2472.4	2520.3	2583.5	2570.9	2551.9
32.5°	2334.7	2382.7	2469.8	2464.8	2454.7
35°	2209.7	2240.0	2342.3	2354.9	2346.1
37.5°	2091.0	2118.8	2214.8	2243.8	2236.2
40°	1966.0	1996.3	2072.1	2123.9	2126.4
42.5°	1842.3	1871.3	1933.2	2007.7	2007.7
45°	1711.0	1740.0	1796.8	1878.9	1889.0
47.5°	1582.2	1612.5	1668.0	1750.1	1766.5
50°	1455.9	1483.7	1539.2	1618.8	1644.0
52.5°	1324.6	1354.9	1409.2	1482.4	1519.0
55°	1198.3	1218.5	1277.9	1348.6	1387.7
57.5°	1067.0	1085.9	1152.8	1213.5	1253.9
60°	940.7	964.7	1016.5	1078.3	1125.1
62.5°	819.5	844.7	888.9	943.2	996.3
65°	702.1	721.0	763.9	818.2	864.9
67.5°	588.4	604.8	647.8	685.6	734.9
70°	473.5	495.0	526.5	563.2	594.7
72.5°	381.3	390.2	416.7	443.2	476.0
75°	281.6	296.7	318.2	333.4	352.3
77.5°	202.0	210.9	223.5	236.1	253.8
80°	135.1	138.9	150.3	152.8	166.7
82.5°	82.1	84.6	87.1	88.4	93.4
85°	44.2	44.2	44.2	41.7	41.7
87.5°	25.3	25.3	21.5	17.7	12.6
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)