

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: P557629

Luminaire Tested: **FUSL-12-4-LD4-2STD-50-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: P557629
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
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

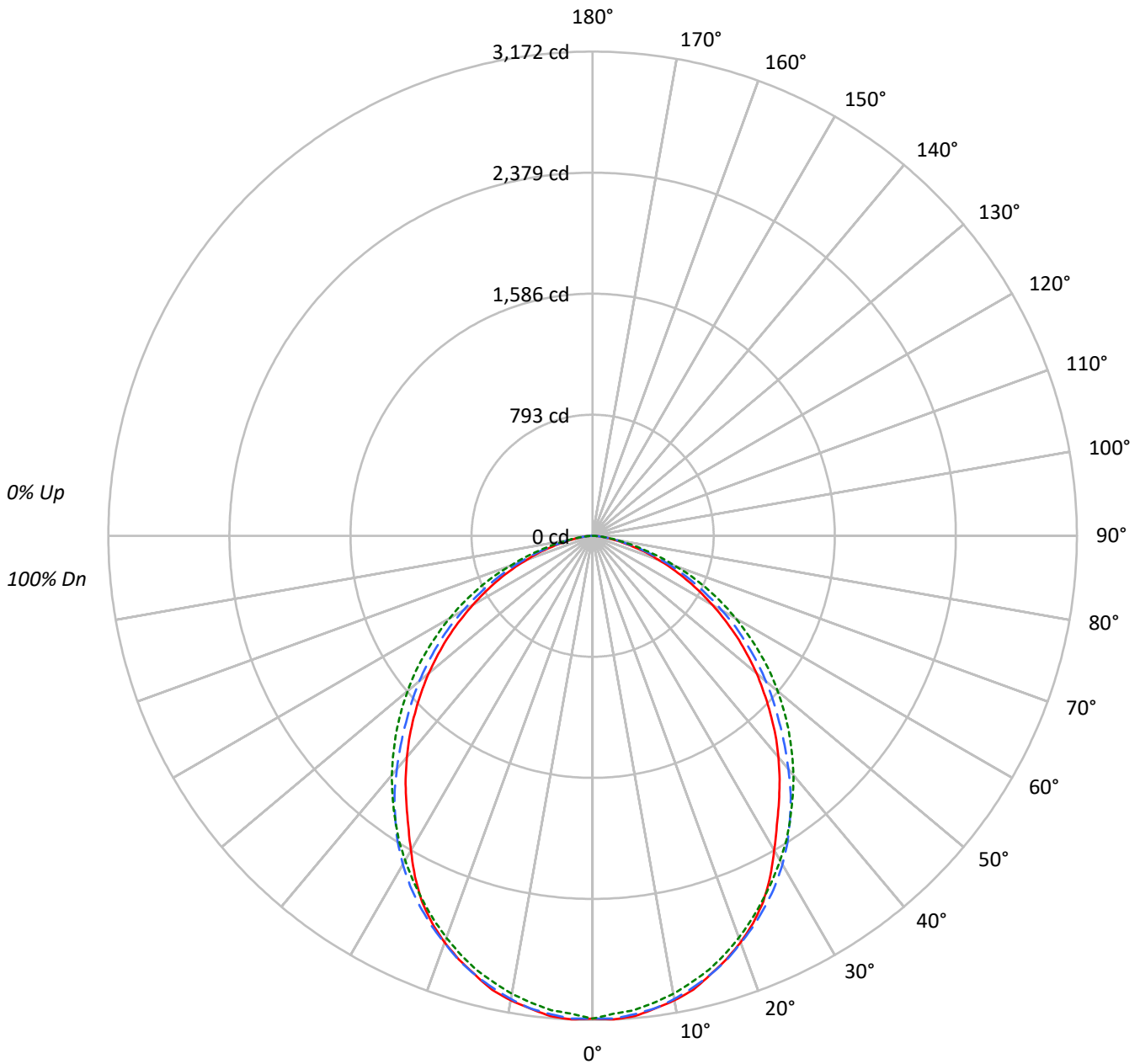
Lumens per Lamp: N/A
Luminaire Lumens: 7314.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	8512	8512	8512
5°	8535	8498	8426
10°	8444	8421	8325
15°	8294	8294	8199
20°	8119	8129	8025
25°	7851	7948	7822
30°	7393	7726	7631
35°	6986	7405	7417
40°	6646	7005	7189
45°	6266	6581	6918
50°	5866	6201	6624
55°	5410	5770	6266
60°	4872	5265	5827
65°	4302	4681	5300
70°	3585	3987	4504
75°	2818	3184	3525
80°	2015	2241	2486
85°	1312	1312	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.8	4.1
10°-20°	836.7	11.4
20°-30°	1222.6	16.7
30°-40°	1387.8	19.0
40°-50°	1339.7	18.3
50°-60°	1105.2	15.1
60°-70°	736.0	10.1
70°-80°	329.3	4.5
80°-90°	58.9	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°	2357.1	32.2
0°-40°	3744.9	51.2
0°-60°	6189.8	84.6
0°-90°	7314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7314.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3163	3163	3163	3163	3163	
5°	3160	3158	3146	3129	3119	299
15°	2977	2984	2977	2964	2943	839
25°	2644	2665	2677	2658	2634	1211
35°	2127	2156	2254	2266	2258	1332
45°	1647	1674	1729	1808	1818	1270
55°	1153	1173	1230	1298	1336	1029
65°	676	694	735	787	832	670
75°	271	286	306	321	339	296
85°	42	42	42	40	40	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3163.1	<i>3163.1</i>	3163.1	3163.1	3163.1
2.5°	<i>3171.6</i>	<i>3172.8</i>	<i>3165.5</i>	<i>3146.1</i>	<i>3134.0</i>
5°	3159.5	<i>3158.3</i>	3146.1	3129.1	3119.4
7.5°	3124.2	<i>3126.7</i>	3123.0	3098.7	3085.3
10°	3090.2	<i>3091.4</i>	3081.7	3062.3	3046.5
12.5°	3046.5	<i>3045.2</i>	3031.9	3022.2	2996.6
15°	2977.2	<i>2984.5</i>	2977.2	2963.8	2943.2
17.5°	2910.4	<i>2910.4</i>	2915.2	2892.1	2876.3
20°	2835.0	<i>2838.7</i>	2838.7	2820.4	2802.2
22.5°	2747.5	<i>2758.5</i>	2762.1	2742.7	2720.8
25°	2644.2	<i>2664.9</i>	2677.0	2657.6	2634.5
27.5°	2519.1	<i>2550.7</i>	2587.1	2572.5	2547.0
30°	2379.3	<i>2425.5</i>	2486.3	2474.1	2455.9
32.5°	2246.9	<i>2293.0</i>	2376.9	2372.0	2362.3
35°	2126.6	<i>2155.7</i>	2254.2	2266.3	2257.8
37.5°	2012.3	<i>2039.1</i>	2131.4	2159.4	2152.1
40°	1892.0	<i>1921.2</i>	1994.1	2043.9	2046.4
42.5°	1772.9	<i>1800.9</i>	1860.4	1932.1	1932.1
45°	1646.6	<i>1674.5</i>	1729.2	1808.2	1817.9
47.5°	1522.6	<i>1551.8</i>	1605.3	1684.2	1700.0
50°	1401.1	<i>1427.8</i>	1481.3	1557.9	1582.2
52.5°	1274.7	<i>1303.9</i>	1356.1	1426.6	1461.9
55°	1153.2	<i>1172.6</i>	1229.8	1297.8	1335.5
57.5°	1026.8	<i>1045.1</i>	1109.5	1167.8	1206.7
60°	905.3	<i>928.4</i>	978.2	1037.8	1082.7
62.5°	788.7	<i>813.0</i>	855.5	907.7	958.8
65°	675.6	<i>693.9</i>	735.2	787.4	832.4
67.5°	566.3	<i>582.1</i>	623.4	659.8	707.2
70°	455.7	<i>476.4</i>	506.7	542.0	572.4
72.5°	367.0	<i>375.5</i>	401.0	426.5	458.1
75°	271.0	<i>285.6</i>	306.2	320.8	339.0
77.5°	194.4	<i>202.9</i>	215.1	227.2	244.3
80°	130.0	<i>133.7</i>	144.6	147.0	160.4
82.5°	79.0	<i>81.4</i>	83.8	85.1	89.9
85°	42.5	<i>42.5</i>	42.5	40.1	40.1
87.5°	24.3	<i>24.3</i>	20.7	17.0	12.2
90°	0.0	<i>0.0</i>	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)