

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: P557563

Luminaire Tested: **FUSL-12-4-LD4-2STD-40-UNV-80-94-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: P557563
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-40-UNV-80-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

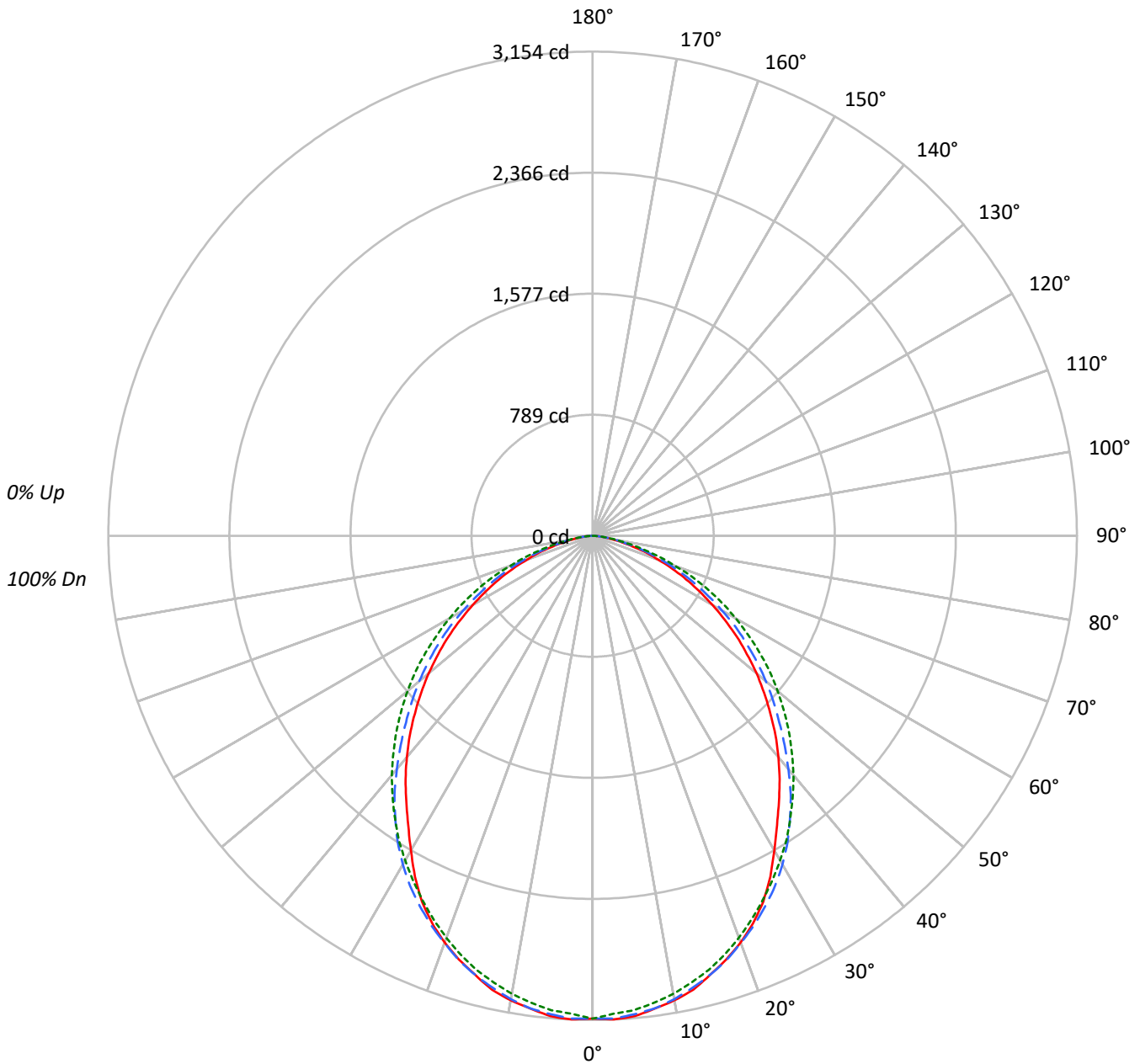
Lumens per Lamp: N/A
Luminaire Lumens: 7273.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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°	8464	8464	8464
5°	8487	8451	8379
10°	8397	8373	8278
15°	8248	8248	8154
20°	8073	8084	7980
25°	7807	7904	7778
30°	7352	7682	7588
35°	6947	7364	7375
40°	6609	6966	7148
45°	6231	6544	6879
50°	5833	6167	6586
55°	5380	5737	6230
60°	4845	5235	5795
65°	4278	4655	5270
70°	3565	3965	4478
75°	2802	3166	3505
80°	2004	2228	2472
85°	1306	1306	1232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.1	4.1
10°-20°	832.0	11.4
20°-30°	1215.8	16.7
30°-40°	1380.0	19.0
40°-50°	1332.2	18.3
50°-60°	1099.0	15.1
60°-70°	731.8	10.1
70°-80°	327.5	4.5
80°-90°	58.6	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°	2343.9	32.2
0°-40°	3723.9	51.2
0°-60°	6155.1	84.6
0°-90°	7273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3145	3145	3145	3145	3145	
5°	3142	3141	3128	3112	3102	297
15°	2960	2968	2960	2947	2927	835
25°	2629	2650	2662	2643	2620	1204
35°	2115	2144	2242	2254	2245	1325
45°	1637	1665	1720	1798	1808	1263
55°	1147	1166	1223	1290	1328	1023
65°	672	690	731	783	828	666
75°	270	284	304	319	337	295
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°	3145.4	3145.4	3145.4	3145.4	3145.4
2.5°	3153.8	3155.1	3147.8	3128.5	3116.4
5°	3141.8	3140.6	3128.5	3111.6	3101.9
7.5°	3106.7	3109.1	3105.5	3081.3	3068.0
10°	3072.9	3074.1	3064.4	3045.1	3029.4
12.5°	3029.4	3028.2	3014.9	3005.2	2979.8
15°	2960.5	2967.8	2960.5	2947.2	2926.7
17.5°	2894.0	2894.0	2898.9	2875.9	2860.2
20°	2819.1	2822.8	2822.8	2804.6	2786.5
22.5°	2732.1	2743.0	2746.6	2727.3	2705.5
25°	2629.4	2650.0	2662.0	2642.7	2619.7
27.5°	2504.9	2536.4	2572.6	2558.1	2532.7
30°	2366.0	2411.9	2472.3	2460.2	2442.1
32.5°	2234.3	2280.2	2363.6	2358.7	2349.1
35°	2114.6	2143.6	2241.5	2253.6	2245.1
37.5°	2001.1	2027.6	2119.5	2147.3	2140.0
40°	1881.4	1910.4	1982.9	2032.5	2034.9
42.5°	1763.0	1790.8	1850.0	1921.3	1921.3
45°	1637.3	1665.1	1719.5	1798.1	1807.7
47.5°	1514.1	1543.1	1596.3	1674.8	1690.5
50°	1393.2	1419.8	1473.0	1549.1	1573.3
52.5°	1267.6	1296.6	1348.5	1418.6	1453.7
55°	1146.7	1166.1	1222.9	1290.5	1328.0
57.5°	1021.1	1039.2	1103.2	1161.2	1199.9
60°	900.2	923.2	972.7	1031.9	1076.7
62.5°	784.2	808.4	850.7	902.7	953.4
65°	671.9	690.0	731.1	783.0	827.7
67.5°	563.1	578.8	619.9	656.1	703.3
70°	453.1	473.7	503.9	538.9	569.1
72.5°	364.9	373.4	398.8	424.1	455.6
75°	269.5	284.0	304.5	319.0	337.1
77.5°	193.3	201.8	213.9	226.0	242.9
80°	129.3	132.9	143.8	146.2	159.5
82.5°	78.5	81.0	83.4	84.6	89.4
85°	42.3	42.3	42.3	39.9	39.9
87.5°	24.2	24.2	20.5	16.9	12.1
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)