

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: P558139

Luminaire Tested: **FUSL-12-4-LD4-3LO-50-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: P558139
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-50-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
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

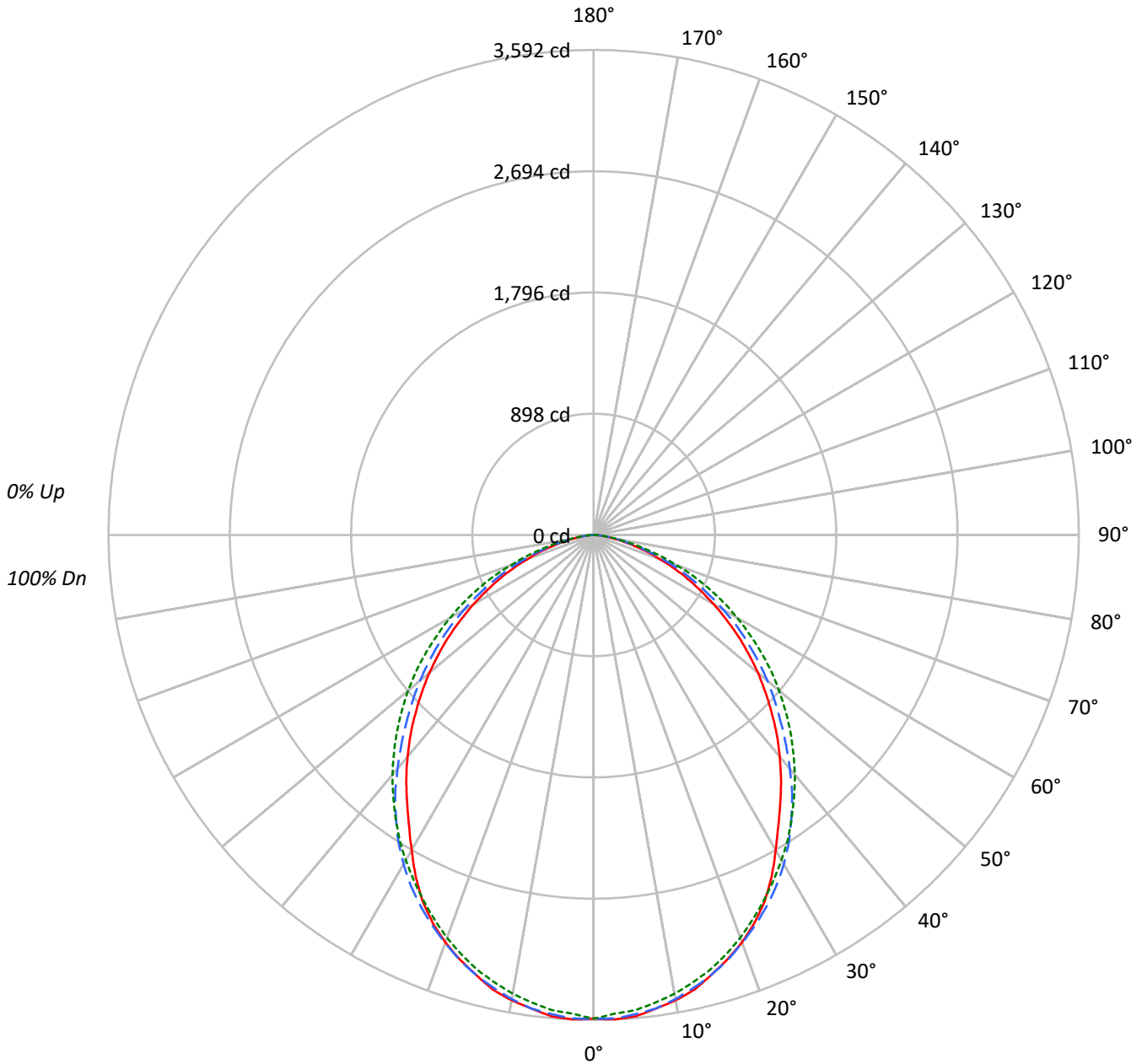
Lumens per Lamp: N/A
Luminaire Lumens: 8284.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	9641	9641	9641
5°	9666	9625	9544
10°	9564	9537	9428
15°	9394	9394	9287
20°	9195	9207	9089
25°	8892	9003	8860
30°	8374	8750	8643
35°	7912	8387	8401
40°	7528	7934	8142
45°	7097	7453	7836
50°	6643	7024	7502
55°	6128	6535	7096
60°	5519	5963	6600
65°	4872	5302	6003
70°	4061	4515	5101
75°	3191	3606	3993
80°	2283	2538	2816
85°	1488	1488	1402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.3	4.1
10°-20°	947.6	11.4
20°-30°	1384.8	16.7
30°-40°	1571.9	19.0
40°-50°	1517.4	18.3
50°-60°	1251.8	15.1
60°-70°	833.6	10.1
70°-80°	373.0	4.5
80°-90°	66.7	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°	2669.7	32.2
0°-40°	4241.6	51.2
0°-60°	7010.7	84.6
0°-90°	8284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3583	3583	3583	3583	3583	
5°	3578	3577	3563	3544	3533	339
15°	3372	3380	3372	3357	3334	951
25°	2995	3018	3032	3010	2984	1372
35°	2409	2442	2553	2567	2557	1509
45°	1865	1897	1958	2048	2059	1439
55°	1306	1328	1393	1470	1513	1166
65°	765	786	833	892	943	759
75°	307	323	347	363	384	336
85°	48	48	48	45	45	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3582.6	3582.6	3582.6	3582.6	3582.6
2.5°	3592.3	3593.6	3585.4	3563.3	3549.6
5°	3578.5	3577.1	3563.3	3544.1	3533.1
7.5°	3538.6	3541.3	3537.2	3509.7	3494.5
10°	3500.0	3501.4	3490.4	3468.4	3450.5
12.5°	3450.5	3449.1	3434.0	3423.0	3394.1
15°	3372.0	3380.3	3372.0	3356.9	3333.5
17.5°	3296.3	3296.3	3301.8	3275.7	3257.8
20°	3211.0	3215.1	3215.1	3194.5	3173.8
22.5°	3111.9	3124.3	3128.4	3106.4	3081.6
25°	2994.9	3018.3	3032.1	3010.1	2983.9
27.5°	2853.2	2888.9	2930.2	2913.7	2884.8
30°	2694.9	2747.2	2816.0	2802.2	2781.6
32.5°	2544.9	2597.2	2692.1	2686.6	2675.6
35°	2408.6	2441.6	2553.1	2566.9	2557.2
37.5°	2279.2	2309.5	2414.1	2445.8	2437.5
40°	2143.0	2176.0	2258.6	2315.0	2317.8
42.5°	2008.1	2039.7	2107.2	2188.4	2188.4
45°	1864.9	1896.6	1958.5	2048.0	2059.0
47.5°	1724.6	1757.6	1818.1	1907.6	1925.5
50°	1586.9	1617.2	1677.8	1764.5	1792.0
52.5°	1443.8	1476.8	1536.0	1615.8	1655.7
55°	1306.1	1328.2	1392.9	1469.9	1512.6
57.5°	1163.0	1183.7	1256.6	1322.7	1366.7
60°	1025.4	1051.5	1108.0	1175.4	1226.3
62.5°	893.2	920.8	968.9	1028.1	1085.9
65°	765.2	785.9	832.7	891.9	942.8
67.5°	641.4	659.3	706.1	747.4	801.0
70°	516.1	539.5	573.9	613.8	648.3
72.5°	415.7	425.3	454.2	483.1	518.9
75°	306.9	323.4	346.8	363.4	384.0
77.5°	220.2	229.8	243.6	257.4	276.6
80°	147.3	151.4	163.8	166.5	181.7
82.5°	89.5	92.2	95.0	96.3	101.8
85°	48.2	48.2	48.2	45.4	45.4
87.5°	27.5	27.5	23.4	19.3	13.8
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)