

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: P558079

Luminaire Tested: **FUSL-12-4-LD4-3LO-40-UNV-80-97-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: P558079
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-40-UNV-80-97-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

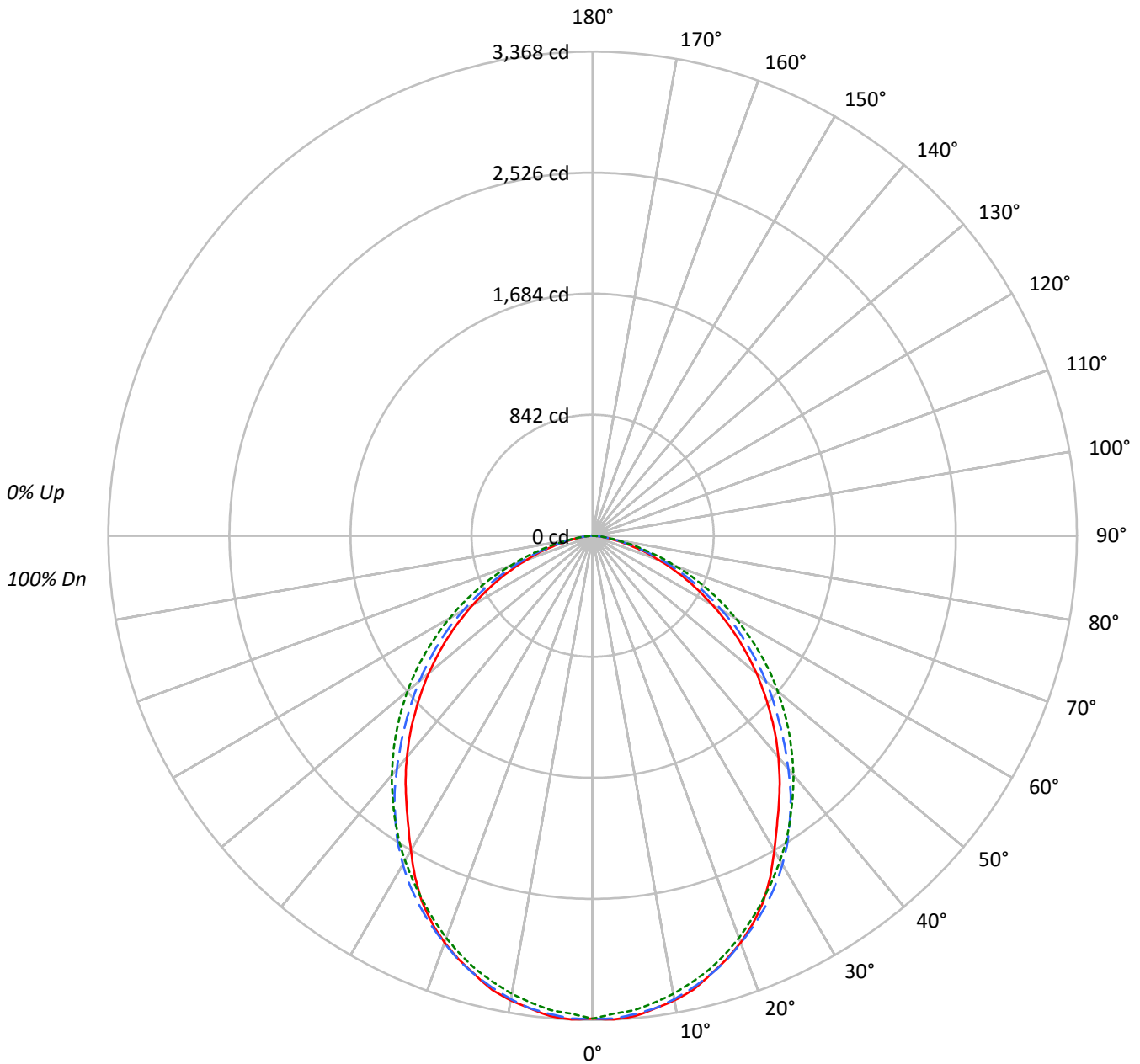
Lumens per Lamp: N/A
Luminaire Lumens: 7767.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	9039	9039	9039
5°	9063	9025	8948
10°	8967	8942	8840
15°	8808	8808	8707
20°	8621	8633	8522
25°	8337	8441	8307
30°	7851	8204	8104
35°	7419	7864	7876
40°	7058	7439	7634
45°	6655	6988	7347
50°	6229	6586	7034
55°	5745	6127	6654
60°	5174	5591	6188
65°	4569	4971	5629
70°	3807	4234	4782
75°	2992	3381	3743
80°	2140	2380	2639
85°	1396	1396	1315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.3	4.1
10°-20°	888.5	11.4
20°-30°	1298.3	16.7
30°-40°	1473.8	19.0
40°-50°	1422.7	18.3
50°-60°	1173.6	15.1
60°-70°	781.5	10.1
70°-80°	349.7	4.5
80°-90°	62.6	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°	2503.1	32.2
0°-40°	3976.8	51.2
0°-60°	6573.2	84.6
0°-90°	7767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3359	3359	3359	3359	3359	
5°	3355	3354	3341	3323	3313	318
15°	3162	3169	3162	3147	3126	891
25°	2808	2830	2843	2822	2798	1286
35°	2258	2289	2394	2407	2398	1415
45°	1749	1778	1836	1920	1930	1349
55°	1225	1245	1306	1378	1418	1093
65°	718	737	781	836	884	711
75°	288	303	325	341	360	315
85°	45	45	45	43	43	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3359.0	3359.0	3359.0	3359.0	3359.0
2.5°	3368.1	3369.4	3361.6	3341.0	3328.1
5°	3355.2	3353.9	3341.0	3322.9	3312.6
7.5°	3317.7	3320.3	3316.4	3290.6	3276.4
10°	3281.6	3282.9	3272.6	3251.9	3235.1
12.5°	3235.1	3233.9	3219.7	3209.3	3182.2
15°	3161.6	3169.3	3161.6	3147.4	3125.5
17.5°	3090.6	3090.6	3095.8	3071.3	3054.5
20°	3010.6	3014.5	3014.5	2995.1	2975.8
22.5°	2917.7	2929.3	2933.2	2912.5	2889.3
25°	2808.0	2829.9	2842.8	2822.2	2797.7
27.5°	2675.1	2708.6	2747.4	2731.9	2704.8
30°	2526.7	2575.7	2640.2	2627.3	2608.0
32.5°	2386.0	2435.1	2524.1	2518.9	2508.6
35°	2258.3	2289.2	2393.8	2406.7	2397.6
37.5°	2137.0	2165.4	2263.4	2293.1	2285.4
40°	2009.2	2040.2	2117.6	2170.5	2173.1
42.5°	1882.8	1912.4	1975.7	2051.8	2051.8
45°	1748.6	1778.2	1836.3	1920.2	1930.5
47.5°	1616.9	1647.9	1704.7	1788.6	1805.3
50°	1487.9	1516.3	1573.1	1654.3	1680.2
52.5°	1353.7	1384.6	1440.1	1515.0	1552.4
55°	1224.6	1245.3	1305.9	1378.2	1418.2
57.5°	1090.4	1109.8	1178.2	1240.1	1281.4
60°	961.4	985.9	1038.8	1102.0	1149.8
62.5°	837.5	863.3	908.5	964.0	1018.2
65°	717.5	736.8	780.7	836.2	884.0
67.5°	601.3	618.1	662.0	700.7	751.0
70°	483.9	505.9	538.1	575.5	607.8
72.5°	389.7	398.7	425.8	452.9	486.5
75°	287.8	303.3	325.2	340.7	360.0
77.5°	206.5	215.5	228.4	241.3	259.4
80°	138.1	141.9	153.6	156.1	170.3
82.5°	83.9	86.5	89.0	90.3	95.5
85°	45.2	45.2	45.2	42.6	42.6
87.5°	25.8	25.8	21.9	18.1	12.9
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)