

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: P557947

Luminaire Tested: **FUSL-12-4-LD4-3LO-30-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: P557947
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-80-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

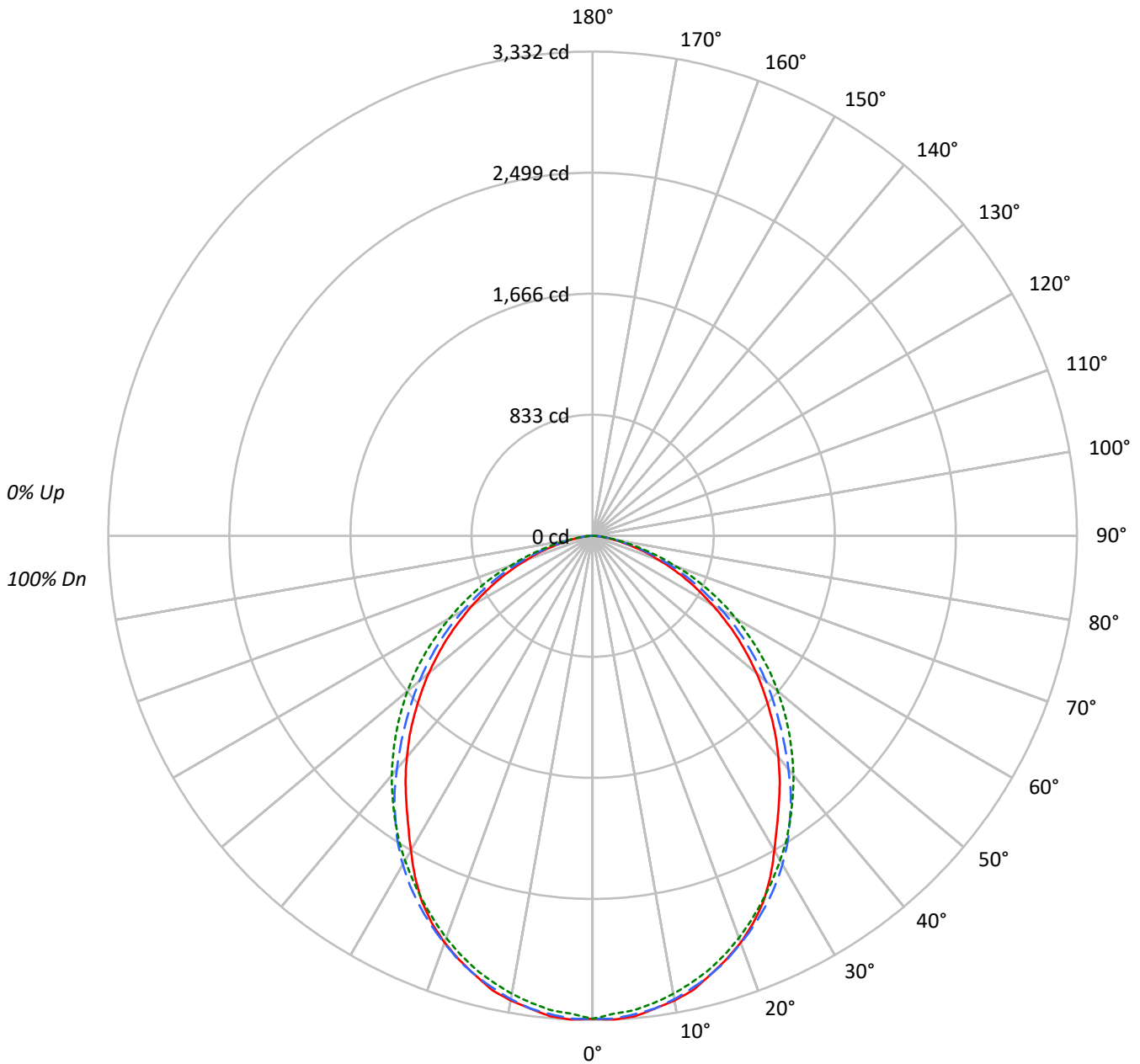
Lumens per Lamp: N/A
Luminaire Lumens: 7685.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	8944	8944	8944
5°	8967	8930	8854
10°	8872	8848	8747
15°	8715	8715	8615
20°	8530	8541	8432
25°	8250	8352	8219
30°	7768	8117	8018
35°	7340	7781	7793
40°	6983	7360	7553
45°	6584	6914	7269
50°	6163	6516	6960
55°	5685	6062	6583
60°	5119	5532	6123
65°	4520	4919	5569
70°	3767	4189	4732
75°	2960	3346	3703
80°	2117	2354	2611
85°	1380	1380	1300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.9	4.1
10°-20°	879.1	11.4
20°-30°	1284.6	16.7
30°-40°	1458.2	19.0
40°-50°	1407.7	18.3
50°-60°	1161.2	15.1
60°-70°	773.3	10.1
70°-80°	346.0	4.5
80°-90°	61.9	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°	2476.7	32.2
0°-40°	3934.9	51.2
0°-60°	6503.8	84.6
0°-90°	7685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3324	3324	3324	3324	3324	
5°	3320	3318	3306	3288	3278	314
15°	3128	3136	3128	3114	3092	882
25°	2778	2800	2813	2792	2768	1272
35°	2234	2265	2368	2381	2372	1400
45°	1730	1760	1817	1900	1910	1335
55°	1212	1232	1292	1364	1403	1081
65°	710	729	772	827	875	704
75°	285	300	322	337	356	311
85°	45	45	45	42	42	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3323.6	3323.6	3323.6	3323.6	3323.6
2.5°	3332.5	3333.8	3326.1	3305.7	3292.9
5°	3319.7	3318.5	3305.7	3287.8	3277.6
7.5°	3282.7	3285.3	3281.4	3255.9	3241.8
10°	3247.0	3248.2	3238.0	3217.6	3201.0
12.5°	3201.0	3199.7	3185.7	3175.5	3148.6
15°	3128.2	3135.9	3128.2	3114.2	3092.5
17.5°	3058.0	3058.0	3063.1	3038.8	3022.2
20°	2978.8	2982.7	2982.7	2963.5	2944.3
22.5°	2886.9	2898.4	2902.2	2881.8	2858.8
25°	2778.4	2800.1	2812.8	2792.4	2768.1
27.5°	2646.8	2680.0	2718.4	2703.0	2676.2
30°	2500.0	2548.5	2612.4	2599.6	2580.5
32.5°	2360.8	2409.4	2497.5	2492.4	2482.1
35°	2234.4	2265.1	2368.5	2381.3	2372.3
37.5°	2114.4	2142.5	2239.5	2268.9	2261.2
40°	1988.0	2018.7	2095.3	2147.6	2150.2
42.5°	1862.9	1892.2	1954.8	2030.1	2030.1
45°	1730.1	1759.5	1816.9	1899.9	1910.1
47.5°	1599.9	1630.5	1686.7	1769.7	1786.3
50°	1472.2	1500.3	1556.4	1636.9	1662.4
52.5°	1339.4	1370.0	1424.9	1499.0	1536.0
55°	1211.7	1232.1	1292.1	1363.6	1403.2
57.5°	1078.9	1098.1	1165.7	1227.0	1267.9
60°	951.2	975.5	1027.8	1090.4	1137.6
62.5°	828.7	854.2	898.9	953.8	1007.4
65°	709.9	729.1	772.5	827.4	874.6
67.5°	595.0	611.6	655.0	693.3	743.1
70°	478.8	500.5	532.4	569.5	601.4
72.5°	385.6	394.5	421.4	448.2	481.4
75°	284.7	300.1	321.8	337.1	356.2
77.5°	204.3	213.2	226.0	238.8	256.6
80°	136.6	140.5	151.9	154.5	168.5
82.5°	83.0	85.5	88.1	89.4	94.5
85°	44.7	44.7	44.7	42.1	42.1
87.5°	25.5	25.5	21.7	17.9	12.8
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)