

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: P557948

Luminaire Tested: **FUSL-12-4-LD4-3LO-30-UNV-80-96-EDD-90**

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: P557948
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-80-96-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

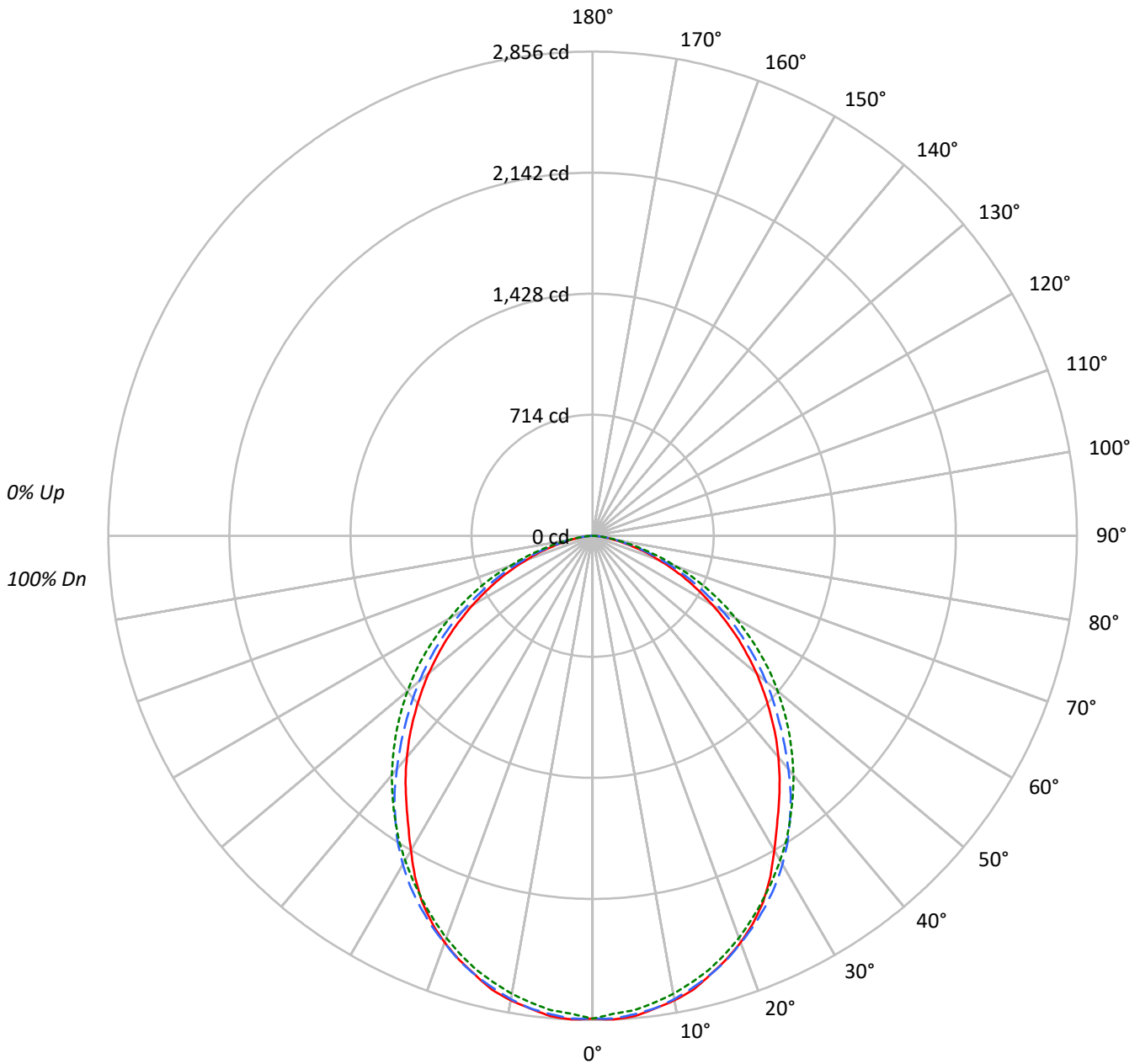
Lumens per Lamp: N/A
Luminaire Lumens: 6586.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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									
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°	7665	7665	7665
5°	7685	7653	7588
10°	7603	7583	7496
15°	7469	7469	7383
20°	7310	7320	7226
25°	7070	7157	7044
30°	6657	6957	6871
35°	6291	6668	6679
40°	5985	6308	6473
45°	5643	5926	6230
50°	5282	5584	5964
55°	4872	5195	5642
60°	4387	4741	5247
65°	3874	4215	4772
70°	3228	3590	4055
75°	2537	2866	3174
80°	1815	2018	2238
85°	1183	1183	1115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.2	4.1
10°-20°	753.4	11.4
20°-30°	1100.9	16.7
30°-40°	1249.7	19.0
40°-50°	1206.4	18.3
50°-60°	995.2	15.1
60°-70°	662.7	10.1
70°-80°	296.5	4.5
80°-90°	53.1	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°	2122.5	32.2
0°-40°	3372.2	51.2
0°-60°	5573.7	84.6
0°-90°	6586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2848	2848	2848	2848	2848	
5°	2845	2844	2833	2818	2809	269
15°	2681	2687	2681	2669	2650	756
25°	2381	2400	2411	2393	2372	1090
35°	1915	1941	2030	2041	2033	1200
45°	1483	1508	1557	1628	1637	1144
55°	1038	1056	1107	1169	1203	927
65°	608	625	662	709	750	603
75°	244	257	276	289	305	267
85°	38	38	38	36	36	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2848.3	2848.3	2848.3	2848.3	2848.3
2.5°	2855.9	2857.0	2850.5	2833.0	2822.0
5°	2845.0	2843.9	2833.0	2817.6	2808.9
7.5°	2813.3	2815.4	2812.2	2790.3	2778.2
10°	2782.6	2783.7	2775.0	2757.5	2743.2
12.5°	2743.2	2742.1	2730.1	2721.3	2698.4
15°	2680.9	2687.4	2680.9	2668.8	2650.2
17.5°	2620.7	2620.7	2625.1	2604.3	2590.0
20°	2552.8	2556.1	2556.1	2539.7	2523.3
22.5°	2474.0	2483.9	2487.2	2469.7	2450.0
25°	2381.0	2399.6	2410.6	2393.1	2372.3
27.5°	2268.3	2296.8	2329.6	2316.5	2293.5
30°	2142.5	2184.1	2238.8	2227.8	2211.4
32.5°	2023.2	2064.8	2140.3	2135.9	2127.2
35°	1914.9	1941.2	2029.8	2040.7	2033.1
37.5°	1812.0	1836.1	1919.3	1944.4	1937.9
40°	1703.7	1730.0	1795.6	1840.5	1842.7
42.5°	1596.5	1621.6	1675.3	1739.8	1739.8
45°	1482.7	1507.8	1557.1	1628.2	1637.0
47.5°	1371.1	1397.3	1445.5	1516.6	1530.8
50°	1261.6	1285.7	1333.9	1402.8	1424.7
52.5°	1147.8	1174.1	1221.2	1284.6	1316.4
55°	1038.4	1055.9	1107.4	1168.6	1202.6
57.5°	924.6	941.0	999.0	1051.6	1086.6
60°	815.2	836.0	880.9	934.5	975.0
62.5°	710.2	732.0	770.3	817.4	863.3
65°	608.4	624.8	662.0	709.1	749.5
67.5°	509.9	524.1	561.3	594.2	636.8
70°	410.3	428.9	456.3	488.0	515.4
72.5°	330.5	338.1	361.1	384.1	412.5
75°	244.0	257.1	275.7	288.9	305.3
77.5°	175.1	182.7	193.7	204.6	219.9
80°	117.1	120.4	130.2	132.4	144.4
82.5°	71.1	73.3	75.5	76.6	81.0
85°	38.3	38.3	38.3	36.1	36.1
87.5°	21.9	21.9	18.6	15.3	10.9
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)