

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: P557498

Luminaire Tested: **FUSL-12-4-LD4-2STD-35-UNV-80-94-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: P557498
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-35-UNV-80-94-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

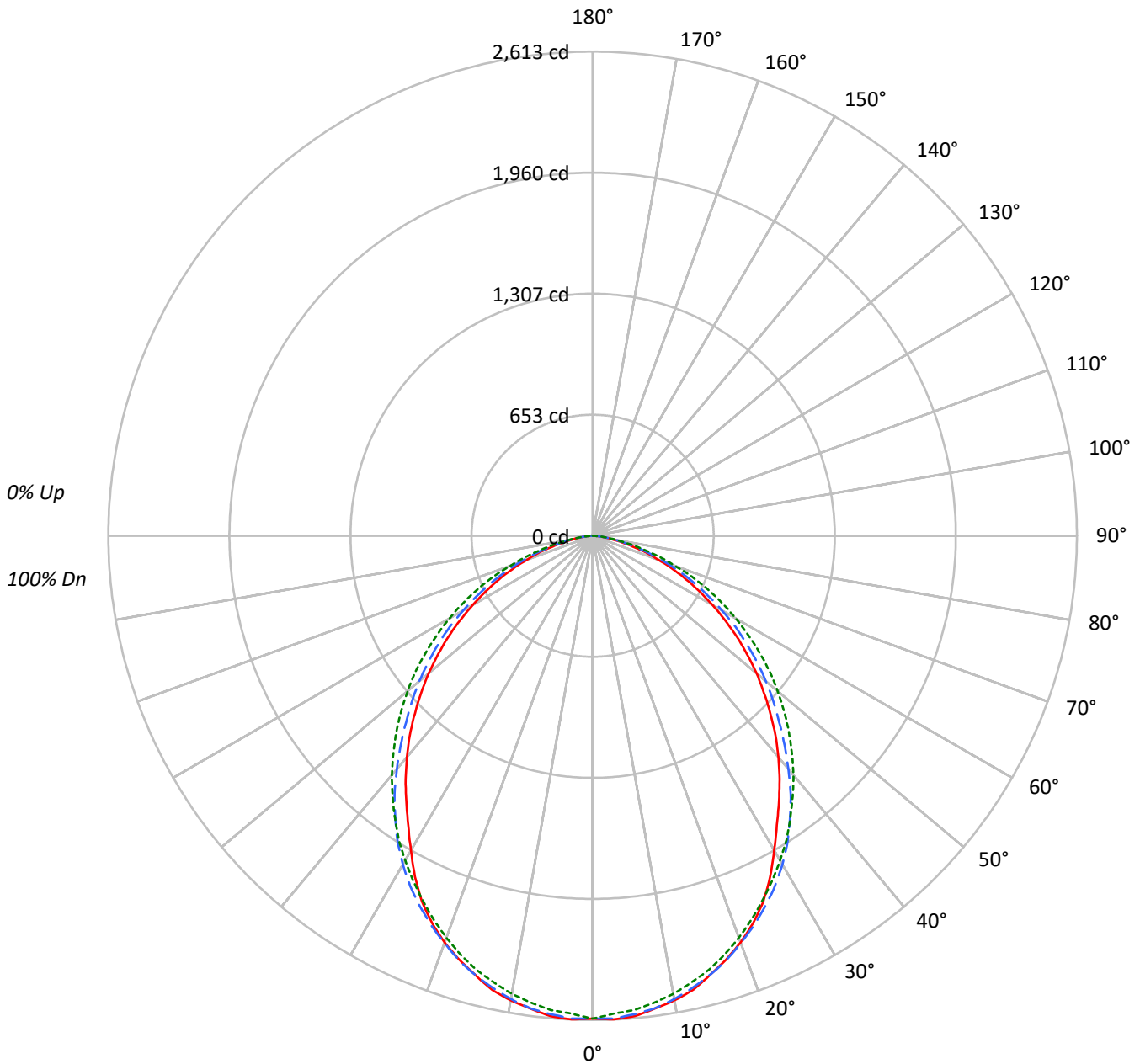
Lumens per Lamp: N/A
Luminaire Lumens: 6025.0 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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

TEST NUMBER: P557498

CATALOG NUMBER: FUSL-12-4-LD4-2STD-35-UNV-80-94-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P557498

CATALOG NUMBER: FUSL-12-4-LD4-2STD-35-UNV-80-94-EDD-90

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°	7012	7012	7012
5°	7031	7001	6941
10°	6956	6937	6857
15°	6832	6832	6754
20°	6688	6696	6611
25°	6467	6548	6444
30°	6090	6364	6286
35°	5755	6100	6110
40°	5475	5771	5922
45°	5162	5421	5699
50°	4832	5108	5456
55°	4457	4753	5161
60°	4014	4337	4800
65°	3544	3856	4366
70°	2954	3284	3710
75°	2321	2623	2904
80°	1660	1846	2047
85°	1081	1081	1019



TEST NUMBER: P557498

CATALOG NUMBER: FUSL-12-4-LD4-2STD-35-UNV-80-94-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	4.1
10°-20°	689.2	11.4
20°-30°	1007.1	16.7
30°-40°	1143.2	19.0
40°-50°	1103.6	18.3
50°-60°	910.4	15.1
60°-70°	606.3	10.1
70°-80°	271.3	4.5
80°-90°	48.5	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°	1941.7	32.2
0°-40°	3084.9	51.2
0°-60°	5098.9	84.6
0°-90°	6025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2606	2606	2606	2606	2606	
5°	2603	2602	2592	2578	2570	246
15°	2452	2458	2452	2442	2424	691
25°	2178	2195	2205	2189	2170	998
35°	1752	1776	1857	1867	1860	1098
45°	1356	1379	1424	1490	1498	1047
55°	950	966	1013	1069	1100	848
65°	557	572	606	649	686	552
75°	223	235	252	264	279	244
85°	35	35	35	33	33	47
90°	0	0	0	0	0	



TEST NUMBER: P557498

CATALOG NUMBER: FUSL-12-4-LD4-2STD-35-UNV-80-94-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2605.7	2605.7	2605.7	2605.7	2605.7
2.5°	2612.7	2613.7	2607.7	2591.6	2581.6
5°	2602.7	2601.7	2591.6	2577.6	2569.6
7.5°	2573.6	2575.6	2572.6	2552.6	2541.6
10°	2545.6	2546.6	2538.6	2522.6	2509.6
12.5°	2509.6	2508.6	2497.5	2489.5	2468.5
15°	2452.5	2458.5	2452.5	2441.5	2424.5
17.5°	2397.4	2397.4	2401.4	2382.4	2369.4
20°	2335.4	2338.4	2338.4	2323.4	2308.4
22.5°	2263.3	2272.3	2275.3	2259.3	2241.3
25°	2178.2	2195.2	2205.2	2189.2	2170.2
27.5°	2075.1	2101.1	2131.2	2119.2	2098.1
30°	1960.0	1998.0	2048.1	2038.1	2023.1
32.5°	1850.9	1888.9	1958.0	1954.0	1946.0
35°	1751.8	1775.8	1856.9	1866.9	1859.9
37.5°	1657.7	1679.7	1755.8	1778.8	1772.8
40°	1558.6	1582.6	1642.7	1683.7	1685.7
42.5°	1460.5	1483.5	1532.6	1591.6	1591.6
45°	1356.4	1379.4	1424.5	1489.5	1497.5
47.5°	1254.3	1278.3	1322.3	1387.4	1400.4
50°	1154.2	1176.2	1220.2	1283.3	1303.3
52.5°	1050.1	1074.1	1117.1	1175.2	1204.2
55°	950.0	966.0	1013.0	1069.1	1100.1
57.5°	845.9	860.9	913.9	962.0	994.0
60°	745.8	764.8	805.8	854.9	891.9
62.5°	649.7	669.7	704.7	747.8	789.8
65°	556.6	571.6	605.6	648.7	685.7
67.5°	466.5	479.5	513.5	543.6	582.6
70°	375.4	392.4	417.4	446.5	471.5
72.5°	302.3	309.3	330.3	351.4	377.4
75°	223.2	235.2	252.3	264.3	279.3
77.5°	160.2	167.2	177.2	187.2	201.2
80°	107.1	110.1	119.1	121.1	132.1
82.5°	65.1	67.1	69.1	70.1	74.1
85°	35.0	35.0	35.0	33.0	33.0
87.5°	20.0	20.0	17.0	14.0	10.0
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)