

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: P557243

Luminaire Tested: **FUSL-12-4-LD4-2LO-35-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: P557243
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-LD4-2LO-35-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

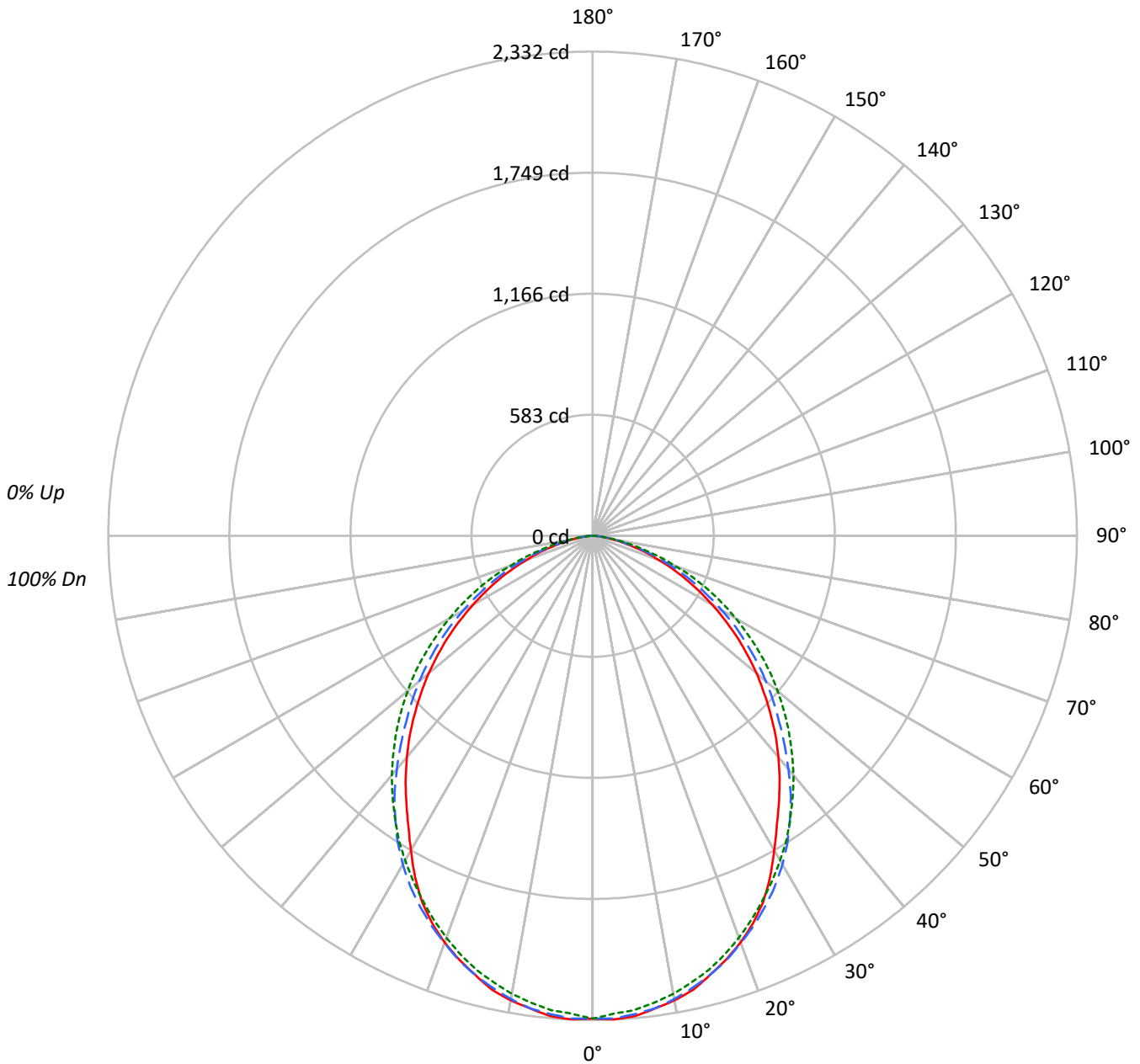
Lumens per Lamp: N/A
Luminaire Lumens: 5377.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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: P557243

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

Luminous Intensity Polar Plot





TEST NUMBER: P557243

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

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°	6258	6258	6258
5°	6274	6248	6195
10°	6208	6191	6120
15°	6098	6098	6028
20°	5968	5976	5899
25°	5772	5844	5751
30°	5435	5679	5610
35°	5136	5444	5453
40°	4886	5150	5285
45°	4607	4838	5086
50°	4312	4559	4870
55°	3978	4242	4606
60°	3582	3871	4284
65°	3163	3442	3897
70°	2636	2931	3311
75°	2071	2340	2591
80°	1481	1647	1827
85°	966	966	911



TEST NUMBER: P557243

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	4.1
10°-20°	615.1	11.4
20°-30°	898.8	16.7
30°-40°	1020.3	19.0
40°-50°	984.9	18.3
50°-60°	812.5	15.1
60°-70°	541.0	10.1
70°-80°	242.1	4.5
80°-90°	43.3	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°	1732.9	32.2
0°-40°	2753.1	51.2
0°-60°	4550.5	84.6
0°-90°	5377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5377.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2325	2325	2325	2325	2325	
5°	2323	2322	2313	2300	2293	220
15°	2189	2194	2189	2179	2164	617
25°	1944	1959	1968	1954	1937	890
35°	1563	1585	1657	1666	1660	980
45°	1210	1231	1271	1329	1336	934
55°	848	862	904	954	982	757
65°	497	510	540	579	612	493
75°	199	210	225	236	249	218
85°	31	31	31	30	30	42
90°	0	0	0	0	0	



TEST NUMBER: P557243

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2325.4	2325.4	2325.4	2325.4	2325.4
2.5°	2331.7	2332.6	2327.2	2312.9	2304.0
5°	2322.7	2321.8	2312.9	2300.4	2293.3
7.5°	2296.8	2298.6	2295.9	2278.1	2268.2
10°	2271.8	2272.7	2265.6	2251.3	2239.7
12.5°	2239.7	2238.8	2228.9	2221.8	2203.0
15°	2188.7	2194.1	2188.7	2178.9	2163.7
17.5°	2139.6	2139.6	2143.2	2126.2	2114.6
20°	2084.2	2086.9	2086.9	2073.5	2060.1
22.5°	2019.9	2027.9	2030.6	2016.3	2000.2
25°	1943.9	1959.1	1968.1	1953.8	1936.8
27.5°	1851.9	1875.2	1902.0	1891.2	1872.5
30°	1749.2	1783.1	1827.8	1818.9	1805.5
32.5°	1651.8	1685.8	1747.4	1743.8	1736.7
35°	1563.4	1584.8	1657.2	1666.1	1659.9
37.5°	1479.4	1499.1	1567.0	1587.5	1582.1
40°	1391.0	1412.4	1466.0	1502.6	1504.4
42.5°	1303.4	1324.0	1367.7	1420.4	1420.4
45°	1210.5	1231.0	1271.2	1329.3	1336.5
47.5°	1119.4	1140.8	1180.1	1238.2	1249.8
50°	1030.0	1049.7	1089.0	1145.3	1163.2
52.5°	937.1	958.6	997.0	1048.8	1074.7
55°	847.8	862.1	904.1	954.1	981.8
57.5°	754.9	768.3	815.6	858.5	887.1
60°	665.6	682.5	719.2	762.9	796.0
62.5°	579.8	597.7	628.9	667.3	704.9
65°	496.7	510.1	540.5	578.9	612.0
67.5°	416.3	427.9	458.3	485.1	519.9
70°	335.0	350.2	372.5	398.4	420.8
72.5°	269.8	276.0	294.8	313.6	336.8
75°	199.2	209.9	225.1	235.8	249.2
77.5°	142.9	149.2	158.1	167.1	179.6
80°	95.6	98.3	106.3	108.1	117.9
82.5°	58.1	59.9	61.6	62.5	66.1
85°	31.3	31.3	31.3	29.5	29.5
87.5°	17.9	17.9	15.2	12.5	8.9
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)