

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: P554818

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-81-85-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: P554818
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-12-2-LD4-2HI-50-UNV-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

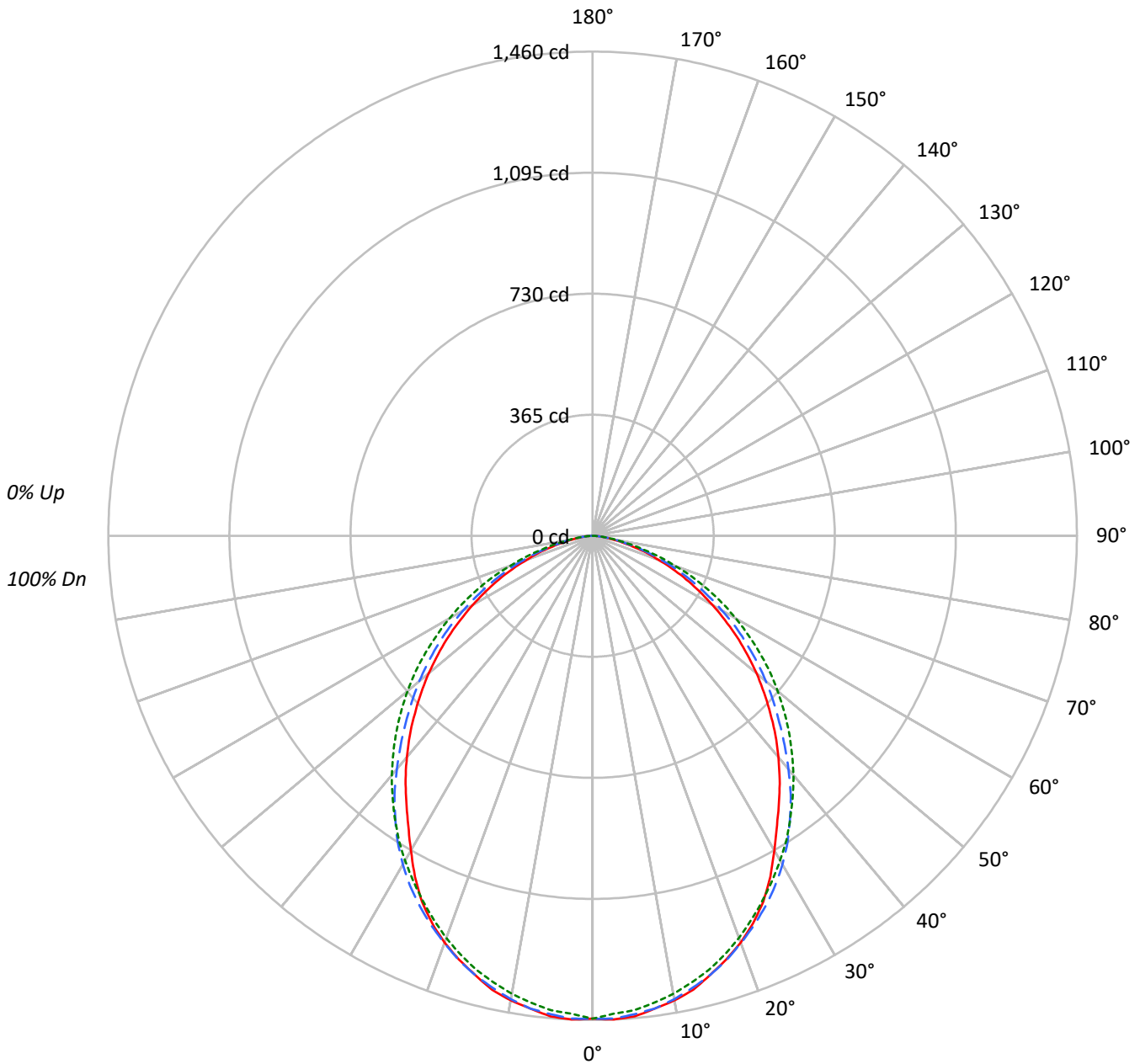
Lumens per Lamp: N/A
Luminaire Lumens: 3367.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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

TEST NUMBER: P554818

CATALOG NUMBER: FUSL-12-2-LD4-2HI-50-UNV-81-85-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554818

CATALOG NUMBER: FUSL-12-2-LD4-2HI-50-UNV-81-85-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°	7837	7837	7837
5°	7858	7824	7758
10°	7774	7753	7664
15°	7637	7637	7549
20°	7475	7485	7388
25°	7229	7318	7202
30°	6807	7113	7026
35°	6432	6818	6829
40°	6119	6450	6618
45°	5769	6059	6370
50°	5400	5709	6098
55°	4982	5312	5769
60°	4486	4847	5365
65°	3961	4309	4880
70°	3301	3671	4146
75°	2593	2932	3246
80°	1857	2064	2287
85°	1210	1210	1142



TEST NUMBER: P554818

CATALOG NUMBER: FUSL-12-2-LD4-2HI-50-UNV-81-85-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	4.1
10°-20°	385.2	11.4
20°-30°	562.8	16.7
30°-40°	638.9	19.0
40°-50°	616.7	18.3
50°-60°	508.8	15.1
60°-70°	338.8	10.1
70°-80°	151.6	4.5
80°-90°	27.1	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°	1085.1	32.2
0°-40°	1724.0	51.2
0°-60°	2849.5	84.6
0°-90°	3367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1454	1454	1448	1440	1436	138
15°	1371	1374	1371	1364	1355	386
25°	1217	1227	1232	1223	1213	557
35°	979	992	1038	1043	1039	613
45°	758	771	796	832	837	585
55°	531	540	566	597	615	474
65°	311	319	338	362	383	308
75°	125	132	141	148	156	136
85°	20	20	20	18	18	26
90°	0	0	0	0	0	



TEST NUMBER: P554818

CATALOG NUMBER: FUSL-12-2-LD4-2HI-50-UNV-81-85-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1456.1	1456.1	1456.1	1456.1	1456.1
2.5°	1460.1	1460.6	1457.3	1448.3	1442.7
5°	1454.5	1453.9	1448.3	1440.5	1436.0
7.5°	1438.2	1439.4	1437.7	1426.5	1420.3
10°	1422.6	1423.1	1418.7	1409.7	1402.4
12.5°	1402.4	1401.9	1395.7	1391.2	1379.5
15°	1370.6	1373.9	1370.6	1364.4	1354.9
17.5°	1339.8	1339.8	1342.0	1331.4	1324.1
20°	1305.1	1306.8	1306.8	1298.4	1290.0
22.5°	1264.8	1269.9	1271.5	1262.6	1252.5
25°	1217.3	1226.8	1232.4	1223.4	1212.8
27.5°	1159.7	1174.2	1191.0	1184.3	1172.5
30°	1095.3	1116.6	1144.5	1139.0	1130.6
32.5°	1034.3	1055.6	1094.2	1092.0	1087.5
35°	979.0	992.4	1037.7	1043.3	1039.4
37.5°	926.4	938.7	981.2	994.1	990.7
40°	871.0	884.4	918.0	940.9	942.0
42.5°	816.2	829.0	856.5	889.5	889.5
45°	758.0	770.9	796.0	832.4	836.9
47.5°	700.9	714.4	739.0	775.3	782.6
50°	645.0	657.3	681.9	717.2	728.3
52.5°	586.8	600.2	624.3	656.7	673.0
55°	530.9	539.8	566.1	597.4	614.8
57.5°	472.7	481.1	510.7	537.6	555.5
60°	416.8	427.4	450.3	477.7	498.4
62.5°	363.1	374.2	393.8	417.9	441.4
65°	311.0	319.4	338.4	362.5	383.2
67.5°	260.7	268.0	287.0	303.8	325.6
70°	209.8	219.3	233.3	249.5	263.5
72.5°	168.9	172.9	184.6	196.4	210.9
75°	124.7	131.5	141.0	147.7	156.1
77.5°	89.5	93.4	99.0	104.6	112.4
80°	59.9	61.5	66.6	67.7	73.8
82.5°	36.4	37.5	38.6	39.2	41.4
85°	19.6	19.6	19.6	18.5	18.5
87.5°	11.2	11.2	9.5	7.8	5.6
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)