

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: P555747

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-93-85-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: P555747
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-LD4-3LO-35-UNV-93-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

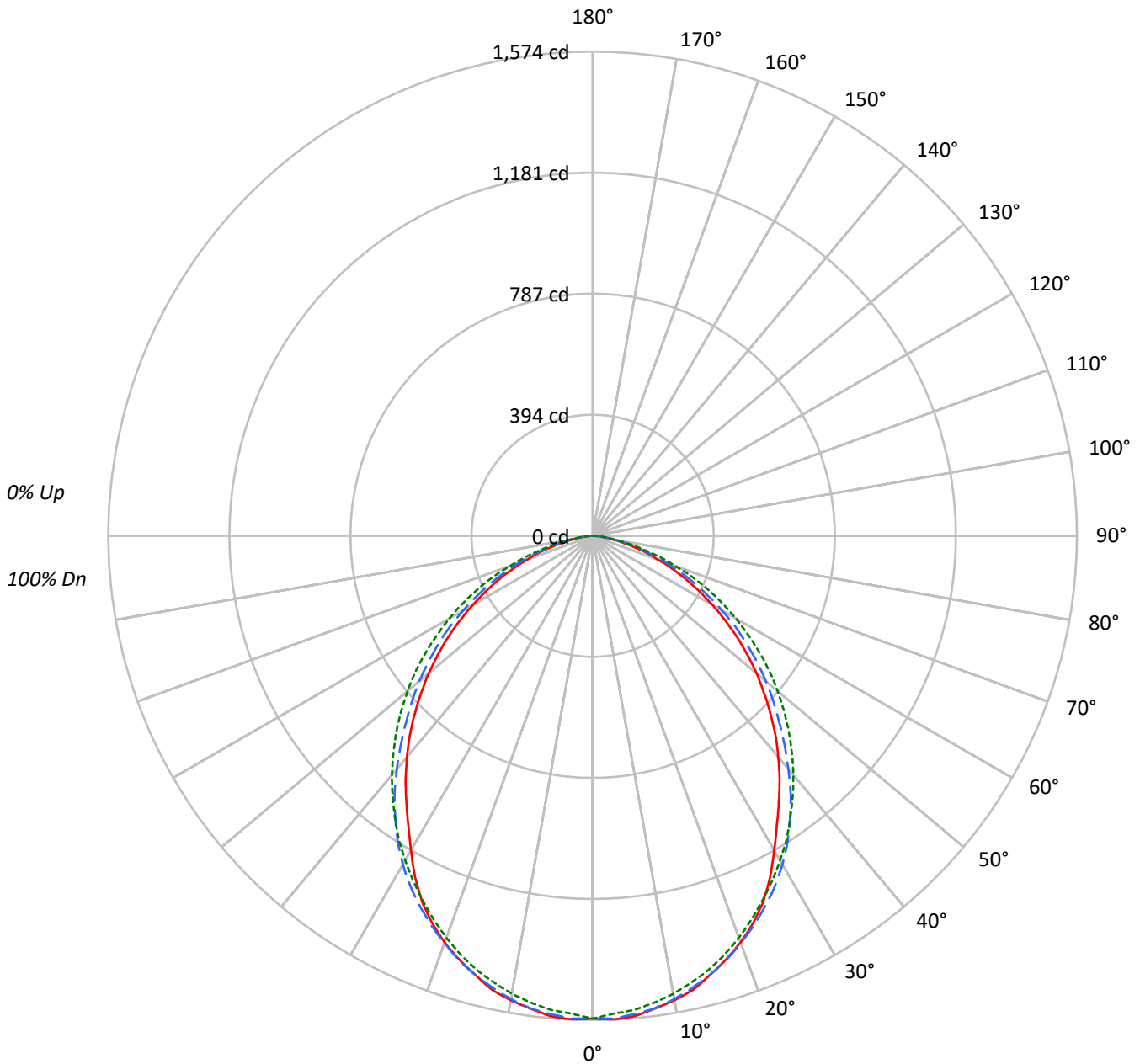
Lumens per Lamp: N/A
Luminaire Lumens: 3629.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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: P555747

CATALOG NUMBER: FUSL-12-2-LD4-3LO-35-UNV-93-85-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555747

CATALOG NUMBER: FUSL-12-2-LD4-3LO-35-UNV-93-85-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°	8446	8446	8446
5°	8469	8433	8361
10°	8379	8357	8261
15°	8231	8231	8137
20°	8057	8067	7963
25°	7791	7888	7763
30°	7337	7666	7572
35°	6932	7349	7361
40°	6596	6951	7133
45°	6218	6530	6865
50°	5821	6154	6573
55°	5369	5726	6217
60°	4835	5225	5782
65°	4269	4646	5259
70°	3558	3956	4469
75°	2797	3159	3498
80°	1999	2222	2467
85°	1303	1303	1229



TEST NUMBER: P555747

CATALOG NUMBER: FUSL-12-2-LD4-3LO-35-UNV-93-85-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	4.1
10°-20°	415.1	11.4
20°-30°	606.6	16.7
30°-40°	688.6	19.0
40°-50°	664.7	18.3
50°-60°	548.4	15.1
60°-70°	365.2	10.1
70°-80°	163.4	4.5
80°-90°	29.2	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°	1169.5	32.2
0°-40°	1858.1	51.2
0°-60°	3071.2	84.6
0°-90°	3629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3629.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1569	1569	1569	1569	1569	
5°	1568	1567	1561	1553	1548	148
15°	1477	1481	1477	1471	1460	416
25°	1312	1322	1328	1319	1307	601
35°	1055	1070	1118	1124	1120	661
45°	817	831	858	897	902	630
55°	572	582	610	644	663	511
65°	335	344	365	391	413	332
75°	134	142	152	159	168	147
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



TEST NUMBER: P555747

CATALOG NUMBER: FUSL-12-2-LD4-3LO-35-UNV-93-85-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1569.4	1569.4	1569.4	1569.4	1569.4
2.5°	1573.7	1574.3	1570.7	1561.0	1555.0
5°	1567.6	1567.0	1561.0	1552.6	1547.7
7.5°	1550.2	1551.4	1549.6	1537.5	1530.9
10°	1533.3	1533.9	1529.1	1519.4	1511.6
12.5°	1511.6	1511.0	1504.3	1499.5	1486.8
15°	1477.2	1480.8	1477.2	1470.6	1460.3
17.5°	1444.0	1444.0	1446.4	1435.0	1427.2
20°	1406.7	1408.5	1408.5	1399.4	1390.4
22.5°	1363.2	1368.7	1370.5	1360.8	1350.0
25°	1312.0	1322.2	1328.3	1318.6	1307.2
27.5°	1249.9	1265.6	1283.7	1276.4	1263.8
30°	1180.6	1203.5	1233.6	1227.6	1218.5
32.5°	1114.8	1137.7	1179.3	1176.9	1172.1
35°	1055.1	1069.6	1118.5	1124.5	1120.3
37.5°	998.5	1011.7	1057.6	1071.4	1067.8
40°	938.8	953.2	989.4	1014.1	1015.3
42.5°	879.7	893.6	923.1	958.7	958.7
45°	817.0	830.8	858.0	897.2	902.0
47.5°	755.5	770.0	796.5	835.7	843.5
50°	695.2	708.5	735.0	773.0	785.0
52.5°	632.5	647.0	672.9	707.8	725.3
55°	572.2	581.8	610.2	643.9	662.6
57.5°	509.5	518.5	550.5	579.4	598.7
60°	449.2	460.6	485.4	514.9	537.2
62.5°	391.3	403.4	424.5	450.4	475.7
65°	335.2	344.3	364.8	390.7	413.0
67.5°	281.0	288.8	309.3	327.4	350.9
70°	226.1	236.4	251.4	268.9	284.0
72.5°	182.1	186.3	199.0	211.6	227.3
75°	134.5	141.7	151.9	159.2	168.2
77.5°	96.5	100.7	106.7	112.7	121.2
80°	64.5	66.3	71.7	73.0	79.6
82.5°	39.2	40.4	41.6	42.2	44.6
85°	21.1	21.1	21.1	19.9	19.9
87.5°	12.1	12.1	10.2	8.4	6.0
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)