

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: P555755

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-93-94-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: P555755
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-93-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

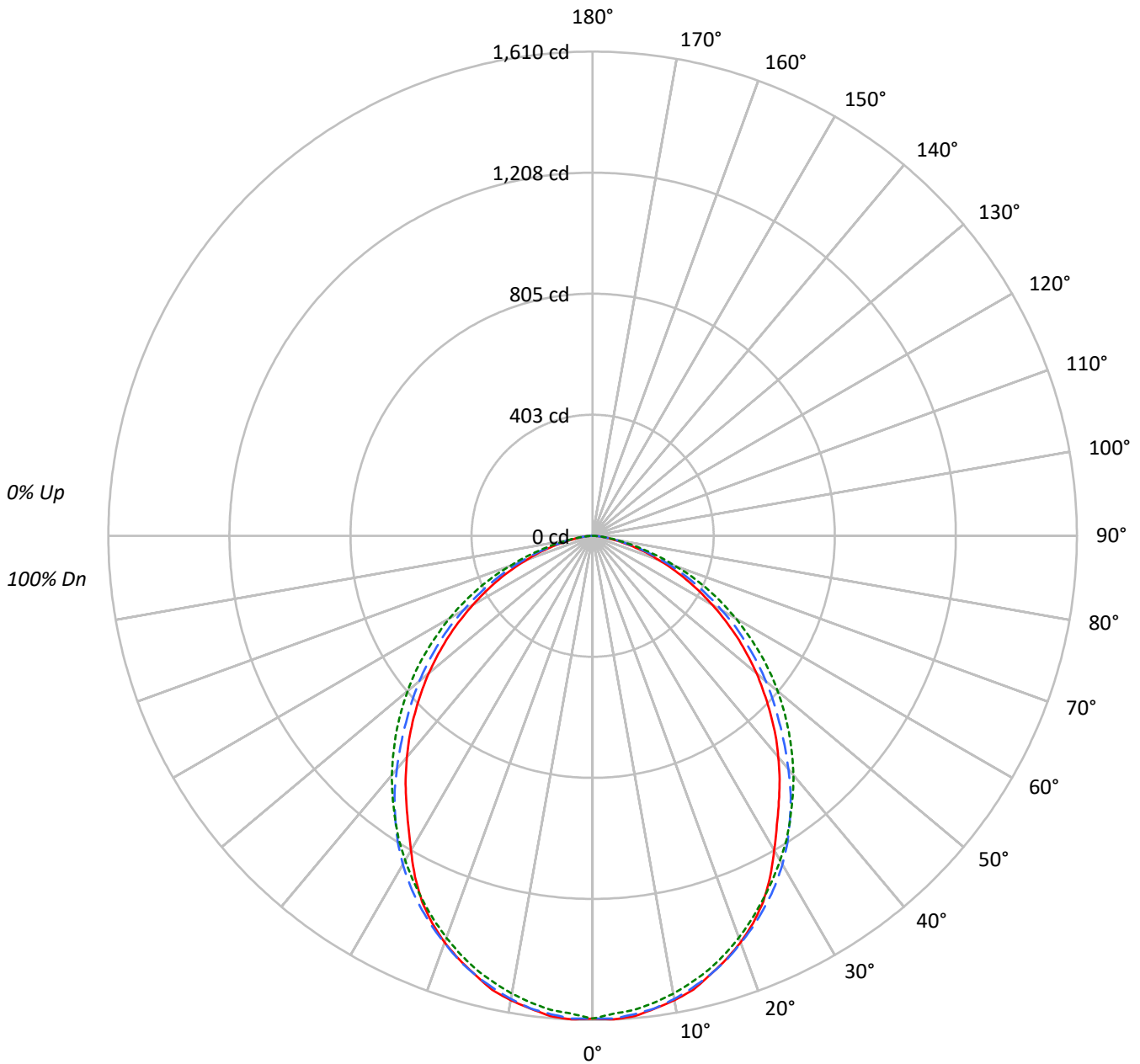
Lumens per Lamp: N/A
Luminaire Lumens: 3712.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555755

CATALOG NUMBER: FUSL-12-2-LD4-3LO-35-UNV-93-94-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555755

CATALOG NUMBER: FUSL-12-2-LD4-3LO-35-UNV-93-94-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°	8640	8640	8640
5°	8663	8626	8553
10°	8571	8547	8449
15°	8419	8419	8323
20°	8241	8251	8145
25°	7969	8068	7940
30°	7505	7842	7746
35°	7091	7516	7529
40°	6746	7111	7297
45°	6361	6680	7022
50°	5954	6295	6723
55°	5492	5856	6360
60°	4946	5344	5915
65°	4367	4751	5380
70°	3640	4047	4571
75°	2859	3231	3579
80°	2046	2275	2523
85°	1334	1334	1260



TEST NUMBER: P555755

CATALOG NUMBER: FUSL-12-2-LD4-3LO-35-UNV-93-94-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	4.1
10°-20°	424.6	11.4
20°-30°	620.5	16.7
30°-40°	704.3	19.0
40°-50°	679.9	18.3
50°-60°	560.9	15.1
60°-70°	373.5	10.1
70°-80°	167.1	4.5
80°-90°	29.9	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°	1196.3	32.2
0°-40°	1900.6	51.2
0°-60°	3141.5	84.6
0°-90°	3712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1605	1605	1605	1605	1605	
5°	1604	1603	1597	1588	1583	152
15°	1511	1515	1511	1504	1494	426
25°	1342	1352	1359	1349	1337	615
35°	1079	1094	1144	1150	1146	676
45°	836	850	878	918	923	645
55°	585	595	624	659	678	522
65°	343	352	373	400	422	340
75°	138	145	155	163	172	150
85°	22	22	22	20	20	29
90°	0	0	0	0	0	



TEST NUMBER: P555755

CATALOG NUMBER: FUSL-12-2-LD4-3LO-35-UNV-93-94-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1605.3	1605.3	1605.3	1605.3	1605.3
2.5°	1609.7	1610.3	1606.6	1596.7	1590.5
5°	1603.5	1602.9	1596.7	1588.1	1583.1
7.5°	1585.6	1586.8	1585.0	1572.7	1565.9
10°	1568.3	1569.0	1564.0	1554.2	1546.1
12.5°	1546.1	1545.5	1538.7	1533.8	1520.9
15°	1511.0	1514.7	1511.0	1504.2	1493.7
17.5°	1477.1	1477.1	1479.5	1467.8	1459.8
20°	1438.8	1440.7	1440.7	1431.4	1422.2
22.5°	1394.4	1400.0	1401.8	1392.0	1380.9
25°	1342.0	1352.5	1358.7	1348.8	1337.1
27.5°	1278.5	1294.5	1313.0	1305.6	1292.7
30°	1207.6	1231.0	1261.8	1255.7	1246.4
32.5°	1140.3	1163.8	1206.3	1203.9	1198.9
35°	1079.3	1094.1	1144.0	1150.2	1145.9
37.5°	1021.3	1034.9	1081.7	1095.9	1092.2
40°	960.2	975.0	1012.1	1037.3	1038.6
42.5°	899.8	914.0	944.2	980.6	980.6
45°	835.7	849.9	877.6	917.7	922.6
47.5°	772.8	787.6	814.7	854.8	862.8
50°	711.1	724.7	751.8	790.6	803.0
52.5°	646.9	661.7	688.3	724.0	741.9
55°	585.3	595.1	624.1	658.7	677.8
57.5°	521.1	530.4	563.1	592.7	612.4
60°	459.5	471.2	496.5	526.7	549.5
62.5°	400.3	412.6	434.2	460.7	486.6
65°	342.9	352.2	373.1	399.6	422.5
67.5°	287.4	295.4	316.4	334.9	358.9
70°	231.3	241.8	257.2	275.1	290.5
72.5°	186.3	190.6	203.5	216.5	232.5
75°	137.5	144.9	155.4	162.8	172.1
77.5°	98.7	103.0	109.2	115.3	124.0
80°	66.0	67.8	73.4	74.6	81.4
82.5°	40.1	41.3	42.6	43.2	45.6
85°	21.6	21.6	21.6	20.4	20.4
87.5°	12.3	12.3	10.5	8.6	6.2
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)