

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: P555195

Luminaire Tested: **FUSL-12-2-LD4-2STD-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: P555195
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-LD4-2STD-35-UNV-80-94-EDD
Description: 2FT 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

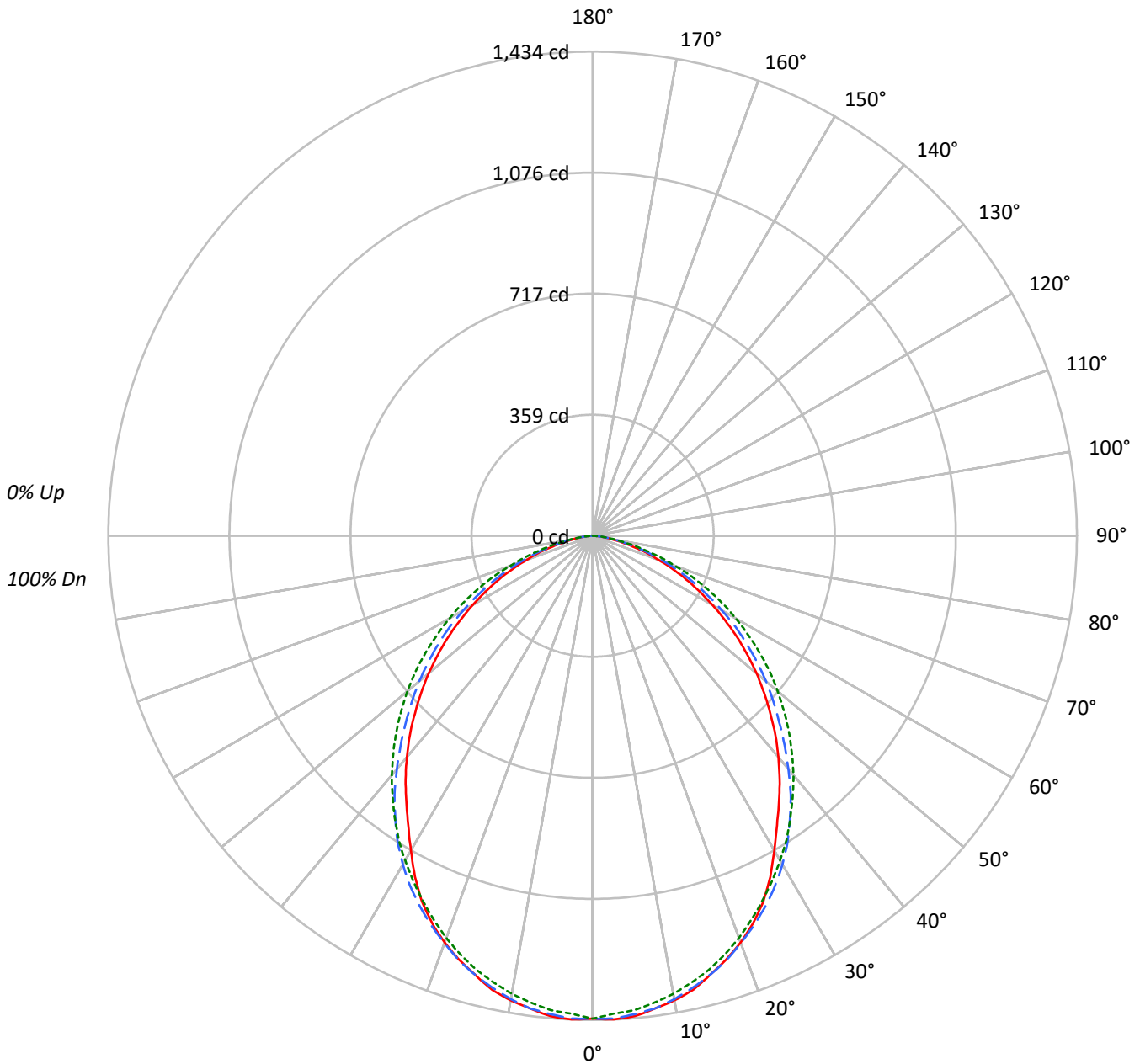
Lumens per Lamp: N/A
Luminaire Lumens: 3307.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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: P555195

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

Luminous Intensity Polar Plot





TEST NUMBER: P555195

CATALOG NUMBER: FUSL-12-2-LD4-2STD-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°	7697	7697	7697
5°	7717	7685	7620
10°	7636	7615	7527
15°	7500	7500	7414
20°	7341	7351	7257
25°	7100	7188	7074
30°	6686	6986	6901
35°	6317	6696	6707
40°	6010	6334	6501
45°	5667	5951	6256
50°	5304	5608	5990
55°	4892	5217	5666
60°	4406	4761	5270
65°	3890	4233	4793
70°	3242	3605	4072
75°	2547	2880	3188
80°	1822	2027	2247
85°	1186	1186	1118



TEST NUMBER: P555195

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	4.1
10°-20°	378.3	11.4
20°-30°	552.8	16.7
30°-40°	627.5	19.0
40°-50°	605.8	18.3
50°-60°	499.7	15.1
60°-70°	332.8	10.1
70°-80°	148.9	4.5
80°-90°	26.6	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°	1065.8	32.2
0°-40°	1693.3	51.2
0°-60°	2798.7	84.6
0°-90°	3307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1428	1428	1422	1415	1410	135
15°	1346	1349	1346	1340	1331	379
25°	1196	1205	1210	1202	1191	548
35°	962	975	1019	1025	1021	602
45°	744	757	782	818	822	574
55°	521	530	556	587	604	465
65°	306	314	332	356	376	303
75°	122	129	138	145	153	134
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



TEST NUMBER: P555195

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1430.2	1430.2	1430.2	1430.2	1430.2
2.5°	1434.0	1434.6	1431.3	1422.5	1417.0
5°	1428.5	1428.0	1422.5	1414.8	1410.4
7.5°	1412.6	1413.7	1412.1	1401.1	1395.0
10°	1397.2	1397.8	1393.4	1384.6	1377.4
12.5°	1377.4	1376.9	1370.9	1366.5	1354.9
15°	1346.1	1349.4	1346.1	1340.1	1330.7
17.5°	1315.9	1315.9	1318.1	1307.7	1300.5
20°	1281.8	1283.5	1283.5	1275.3	1267.0
22.5°	1242.3	1247.2	1248.9	1240.1	1230.2
25°	1195.6	1204.9	1210.4	1201.6	1191.2
27.5°	1139.0	1153.3	1169.8	1163.2	1151.6
30°	1075.8	1096.7	1124.2	1118.7	1110.4
32.5°	1015.9	1036.8	1074.7	1072.5	1068.1
35°	961.5	974.7	1019.2	1024.7	1020.9
37.5°	909.9	922.0	963.7	976.4	973.1
40°	855.5	868.7	901.6	924.2	925.3
42.5°	801.6	814.3	841.2	873.6	873.6
45°	744.5	757.1	781.9	817.6	822.0
47.5°	688.4	701.6	725.8	761.5	768.7
50°	633.5	645.6	669.8	704.4	715.4
52.5°	576.4	589.5	613.2	645.0	661.0
55°	521.4	530.2	556.0	586.8	603.8
57.5°	464.3	472.5	501.6	528.0	545.6
60°	409.3	419.8	442.3	469.2	489.6
62.5°	356.6	367.6	386.8	410.4	433.5
65°	305.5	313.7	332.4	356.0	376.4
67.5°	256.0	263.2	281.9	298.3	319.8
70°	206.0	215.4	229.1	245.1	258.8
72.5°	165.9	169.8	181.3	192.9	207.1
75°	122.5	129.1	138.5	145.1	153.3
77.5°	87.9	91.8	97.3	102.7	110.4
80°	58.8	60.4	65.4	66.5	72.5
82.5°	35.7	36.8	37.9	38.5	40.7
85°	19.2	19.2	19.2	18.1	18.1
87.5°	11.0	11.0	9.3	7.7	5.5
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)