

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: P555261

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-80-96-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: P555261
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-40-UNV-80-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

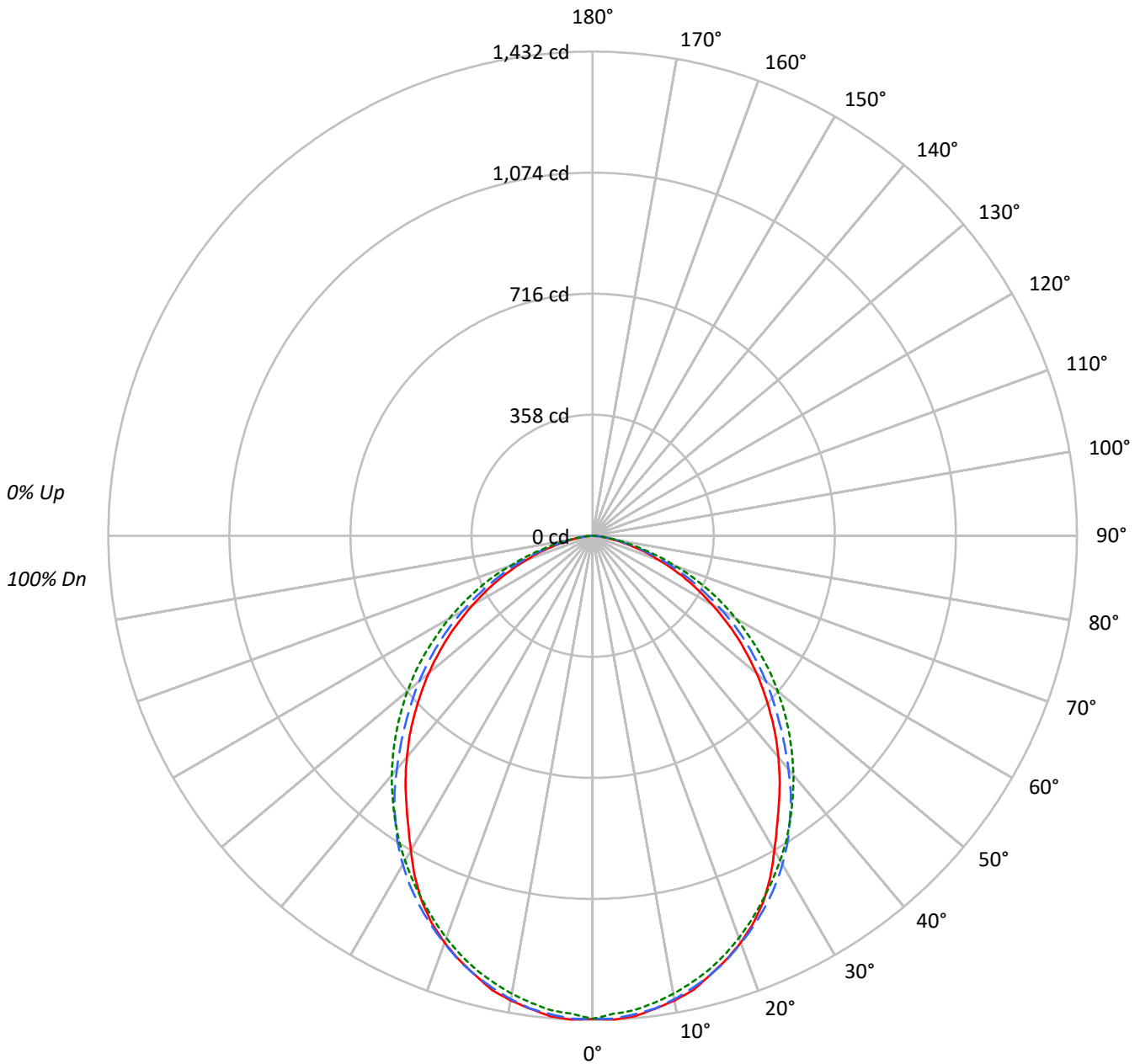
Lumens per Lamp: N/A
Luminaire Lumens: 3303.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555261

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-80-96-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555261

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-80-96-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°	7688	7688	7688
5°	7708	7676	7611
10°	7626	7606	7519
15°	7491	7491	7405
20°	7333	7342	7248
25°	7091	7179	7065
30°	6678	6978	6893
35°	6310	6688	6699
40°	6003	6327	6492
45°	5660	5944	6249
50°	5297	5601	5982
55°	4887	5211	5659
60°	4400	4755	5264
65°	3885	4228	4787
70°	3238	3600	4068
75°	2545	2876	3184
80°	1819	2024	2244
85°	1186	1186	1118



TEST NUMBER: P555261

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-80-96-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	4.1
10°-20°	377.8	11.4
20°-30°	552.1	16.7
30°-40°	626.7	19.0
40°-50°	605.0	18.3
50°-60°	499.1	15.1
60°-70°	332.4	10.1
70°-80°	148.7	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°	1064.5	32.2
0°-40°	1691.2	51.2
0°-60°	2795.3	84.6
0°-90°	3303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1427	1426	1421	1413	1409	135
15°	1344	1348	1344	1338	1329	379
25°	1194	1204	1209	1200	1190	547
35°	960	974	1018	1024	1020	602
45°	744	756	781	817	821	574
55°	521	530	555	586	603	465
65°	305	313	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: P555261

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-80-96-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1428.5	1428.5	1428.5	1428.5	1428.5
2.5°	1432.3	1432.9	1429.6	1420.8	1415.3
5°	1426.8	1426.3	1420.8	1413.1	1408.7
7.5°	1410.9	1412.0	1410.4	1399.4	1393.3
10°	1395.5	1396.1	1391.7	1382.9	1375.8
12.5°	1375.8	1375.2	1369.2	1364.8	1353.3
15°	1344.5	1347.8	1344.5	1338.5	1329.1
17.5°	1314.3	1314.3	1316.5	1306.1	1299.0
20°	1280.3	1281.9	1281.9	1273.7	1265.5
22.5°	1240.8	1245.7	1247.4	1238.6	1228.7
25°	1194.1	1203.5	1209.0	1200.2	1189.7
27.5°	1137.6	1151.9	1168.3	1161.8	1150.2
30°	1074.5	1095.4	1122.8	1117.3	1109.1
32.5°	1014.7	1035.5	1073.4	1071.2	1066.8
35°	960.4	973.5	1018.0	1023.5	1019.6
37.5°	908.8	920.8	962.6	975.2	971.9
40°	854.4	867.6	900.5	923.0	924.1
42.5°	800.7	813.3	840.2	872.6	872.6
45°	743.6	756.2	780.9	816.6	821.0
47.5°	687.6	700.8	724.9	760.6	767.7
50°	632.7	644.8	669.0	703.5	714.5
52.5°	575.7	588.8	612.4	644.3	660.2
55°	520.8	529.6	555.4	586.1	603.1
57.5°	463.7	471.9	501.0	527.4	544.9
60°	408.8	419.3	441.8	468.7	489.0
62.5°	356.2	367.1	386.3	409.9	433.0
65°	305.1	313.4	332.0	355.6	375.9
67.5°	255.7	262.9	281.5	298.0	319.4
70°	205.8	215.1	228.8	244.8	258.5
72.5°	165.7	169.6	181.1	192.6	206.9
75°	122.4	129.0	138.3	144.9	153.1
77.5°	87.8	91.6	97.1	102.6	110.3
80°	58.7	60.4	65.3	66.4	72.4
82.5°	35.7	36.8	37.9	38.4	40.6
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)