

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: P555637

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-80-86-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: P555637
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-30-UNV-80-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

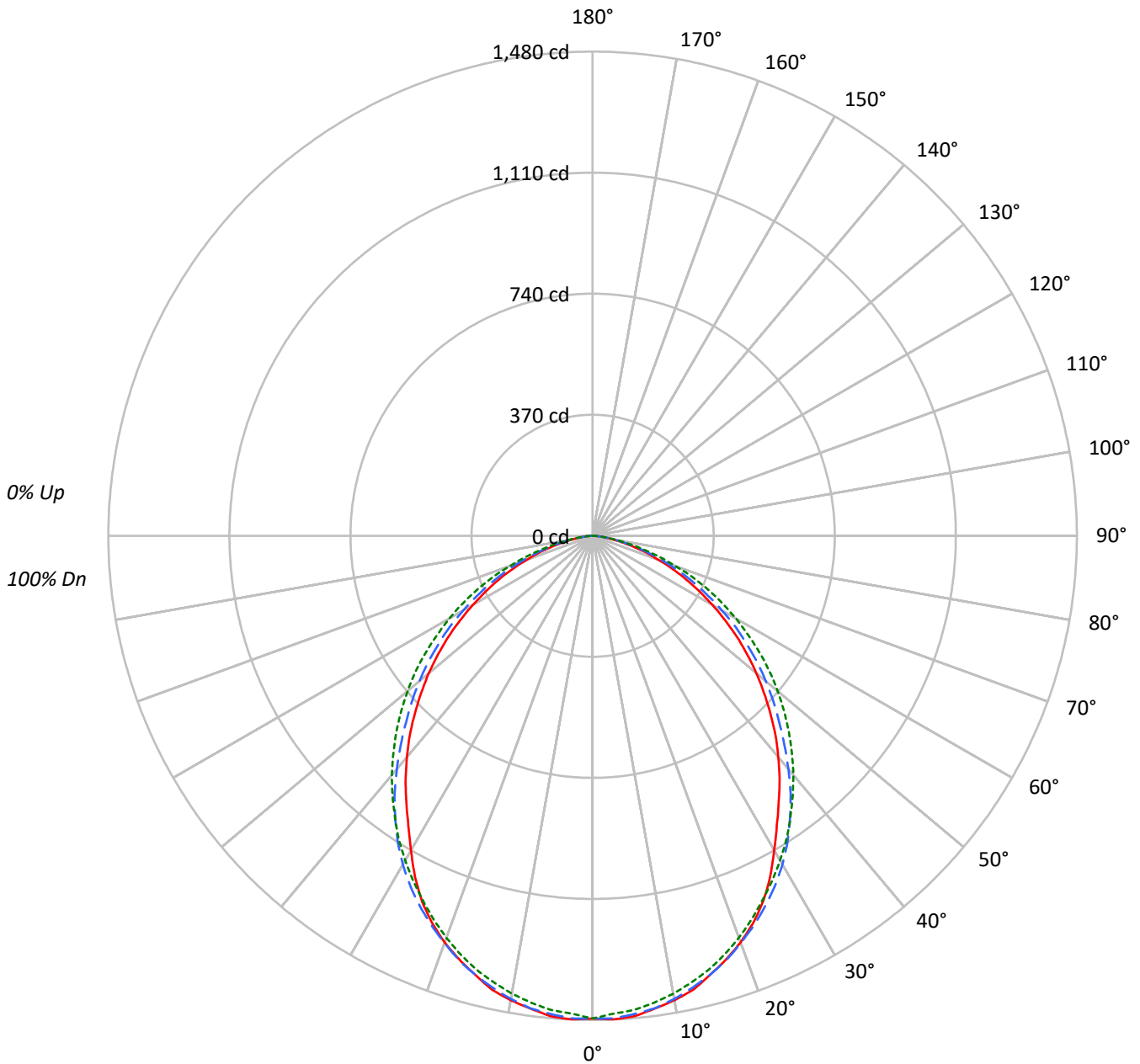
Lumens per Lamp: N/A
Luminaire Lumens: 3412.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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: P555637

CATALOG NUMBER: FUSL-12-2-LD4-3LO-30-UNV-80-86-EDD

Luminous Intensity Polar Plot





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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°	7942	7942	7942
5°	7963	7929	7862
10°	7878	7856	7767
15°	7739	7739	7650
20°	7574	7584	7487
25°	7325	7416	7298
30°	6898	7208	7120
35°	6518	6909	6920
40°	6201	6536	6707
45°	5846	6140	6455
50°	5472	5786	6180
55°	5048	5383	5846
60°	4546	4912	5437
65°	4014	4368	4945
70°	3345	3720	4201
75°	2628	2972	3290
80°	1881	2092	2318
85°	1223	1223	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	4.1
10°-20°	390.3	11.4
20°-30°	570.4	16.7
30°-40°	647.4	19.0
40°-50°	625.0	18.3
50°-60°	515.6	15.1
60°-70°	343.3	10.1
70°-80°	153.6	4.5
80°-90°	27.5	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°	1099.6	32.2
0°-40°	1747.0	51.2
0°-60°	2887.5	84.6
0°-90°	3412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3412.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1476	1476	1476	1476	1476	
5°	1474	1473	1468	1460	1455	140
15°	1389	1392	1389	1383	1373	392
25°	1234	1243	1249	1240	1229	565
35°	992	1006	1052	1057	1053	622
45°	768	781	807	844	848	593
55°	538	547	574	605	623	480
65°	315	324	343	367	388	313
75°	126	133	143	150	158	138
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1475.6	1475.6	1475.6	1475.6	1475.6
2.5°	1479.6	1480.1	1476.7	1467.7	1462.0
5°	1473.9	1473.3	1467.7	1459.7	1455.2
7.5°	1457.5	1458.6	1456.9	1445.6	1439.3
10°	1441.6	1442.2	1437.6	1428.6	1421.2
12.5°	1421.2	1420.6	1414.4	1409.8	1397.9
15°	1388.9	1392.3	1388.9	1382.6	1373.0
17.5°	1357.7	1357.7	1360.0	1349.2	1341.8
20°	1322.5	1324.2	1324.2	1315.7	1307.2
22.5°	1281.7	1286.8	1288.5	1279.5	1269.3
25°	1233.5	1243.2	1248.8	1239.8	1229.0
27.5°	1175.2	1189.9	1206.9	1200.1	1188.2
30°	1110.0	1131.5	1159.8	1154.2	1145.7
32.5°	1048.2	1069.7	1108.8	1106.6	1102.0
35°	992.0	1005.7	1051.6	1057.2	1053.3
37.5°	938.8	951.2	994.3	1007.4	1004.0
40°	882.6	896.2	930.3	953.5	954.6
42.5°	827.1	840.1	867.9	901.3	901.3
45°	768.1	781.2	806.7	843.5	848.1
47.5°	710.3	723.9	748.9	785.7	793.1
50°	653.6	666.1	691.0	726.7	738.1
52.5°	594.7	608.3	632.6	665.5	682.0
55°	538.0	547.0	573.7	605.4	623.0
57.5°	479.0	487.5	517.6	544.8	562.9
60°	422.3	433.1	456.3	484.1	505.1
62.5°	367.9	379.2	399.1	423.5	447.3
65°	315.2	323.7	343.0	367.3	388.3
67.5°	264.2	271.5	290.8	307.8	329.9
70°	212.6	222.2	236.4	252.8	267.0
72.5°	171.2	175.2	187.1	199.0	213.7
75°	126.4	133.2	142.9	149.7	158.2
77.5°	90.7	94.7	100.3	106.0	113.9
80°	60.7	62.4	67.5	68.6	74.8
82.5°	36.8	38.0	39.1	39.7	41.9
85°	19.8	19.8	19.8	18.7	18.7
87.5°	11.3	11.3	9.6	7.9	5.7
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)