

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: P555361

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-93-84-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: P555361
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-50-UNV-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

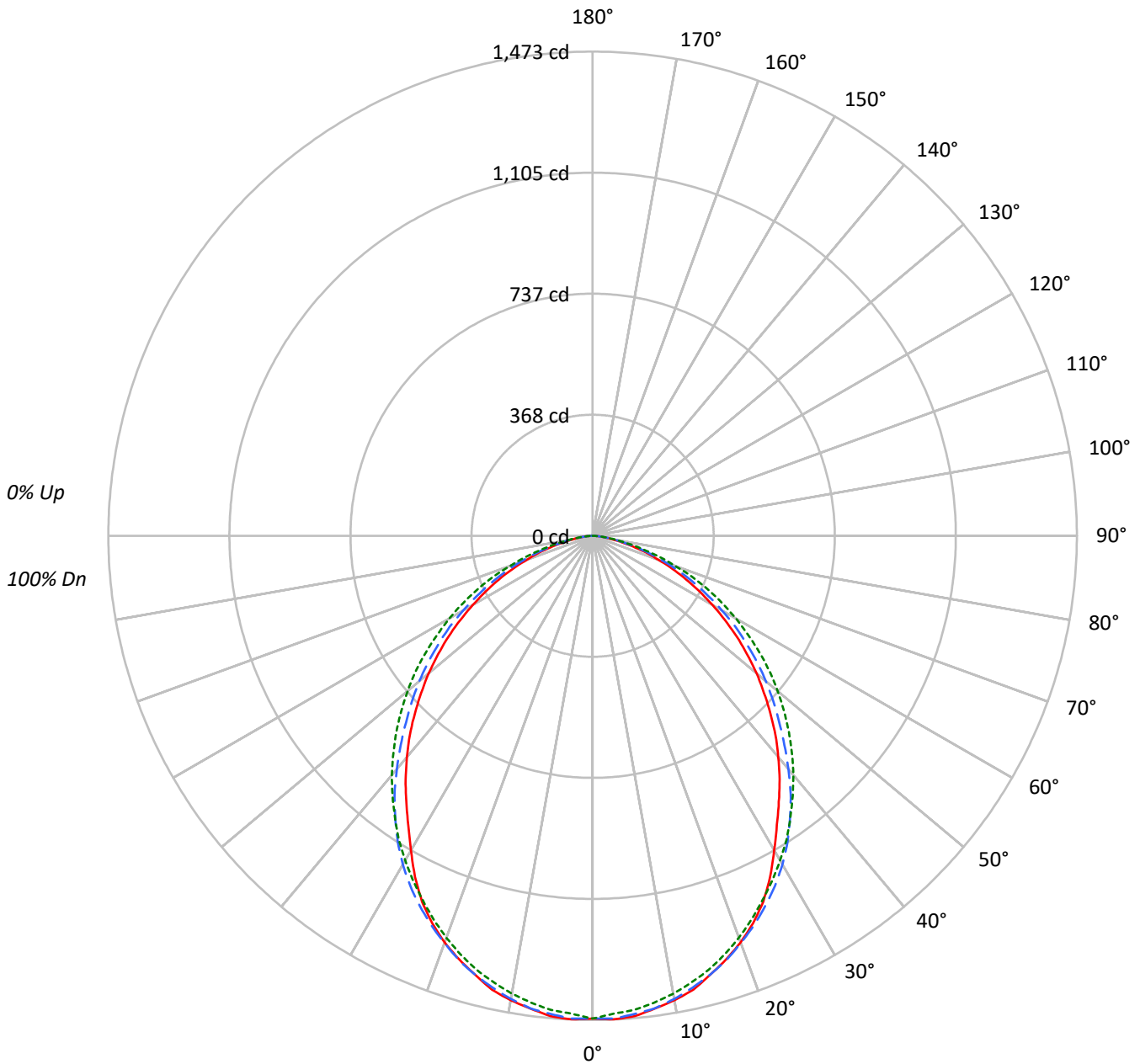
Lumens per Lamp: N/A
Luminaire Lumens: 3396.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7904	7904	7904
5°	7925	7892	7825
10°	7841	7820	7730
15°	7702	7702	7614
20°	7539	7549	7452
25°	7291	7381	7264
30°	6866	7174	7086
35°	6487	6876	6887
40°	6172	6505	6676
45°	5819	6111	6425
50°	5447	5759	6151
55°	5025	5358	5818
60°	4524	4889	5411
65°	3995	4348	4922
70°	3330	3703	4183
75°	2616	2957	3273
80°	1872	2080	2309
85°	1216	1216	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	4.1
10°-20°	388.5	11.4
20°-30°	567.7	16.7
30°-40°	644.4	19.0
40°-50°	622.0	18.3
50°-60°	513.1	15.1
60°-70°	341.7	10.1
70°-80°	152.9	4.5
80°-90°	27.3	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°	1094.4	32.2
0°-40°	1738.8	51.2
0°-60°	2874.0	84.6
0°-90°	3396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1467	1466	1461	1453	1448	139
15°	1382	1386	1382	1376	1367	390
25°	1228	1237	1243	1234	1223	562
35°	987	1001	1047	1052	1048	619
45°	764	778	803	840	844	590
55°	536	544	571	603	620	478
65°	314	322	341	366	386	311
75°	126	133	142	149	157	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°	1468.7	1468.7	1468.7	1468.7	1468.7
2.5°	1472.6	1473.2	1469.8	1460.8	1455.1
5°	1467.0	1466.4	1460.8	1452.9	1448.4
7.5°	1450.6	1451.8	1450.1	1438.8	1432.6
10°	1434.8	1435.4	1430.9	1421.9	1414.5
12.5°	1414.5	1414.0	1407.7	1403.2	1391.4
15°	1382.4	1385.7	1382.4	1376.1	1366.6
17.5°	1351.3	1351.3	1353.6	1342.9	1335.5
20°	1316.3	1318.0	1318.0	1309.6	1301.1
22.5°	1275.7	1280.8	1282.5	1273.5	1263.3
25°	1227.8	1237.3	1243.0	1234.0	1223.2
27.5°	1169.6	1184.3	1201.2	1194.5	1182.6
30°	1104.8	1126.2	1154.4	1148.8	1140.3
32.5°	1043.3	1064.7	1103.6	1101.4	1096.9
35°	987.4	1000.9	1046.6	1052.3	1048.3
37.5°	934.4	946.8	989.7	1002.6	999.2
40°	878.5	892.0	925.9	949.0	950.2
42.5°	823.2	836.2	863.8	897.1	897.1
45°	764.5	777.5	802.9	839.6	844.1
47.5°	707.0	720.5	745.3	782.0	789.4
50°	650.6	663.0	687.8	723.3	734.6
52.5°	591.9	605.4	629.7	662.4	678.8
55°	535.5	544.5	571.0	602.6	620.1
57.5°	476.8	485.2	515.1	542.2	560.3
60°	420.3	431.1	454.2	481.8	502.7
62.5°	366.2	377.5	397.2	421.5	445.2
65°	313.7	322.2	341.4	365.6	386.5
67.5°	262.9	270.3	289.4	306.4	328.4
70°	211.6	221.2	235.3	251.6	265.8
72.5°	170.4	174.3	186.2	198.0	212.7
75°	125.8	132.6	142.2	149.0	157.4
77.5°	90.3	94.2	99.9	105.5	113.4
80°	60.4	62.1	67.1	68.3	74.5
82.5°	36.7	37.8	38.9	39.5	41.8
85°	19.7	19.7	19.7	18.6	18.6
87.5°	11.3	11.3	9.6	7.9	5.6
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)