

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: P555371

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-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: P555371
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-93-94-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

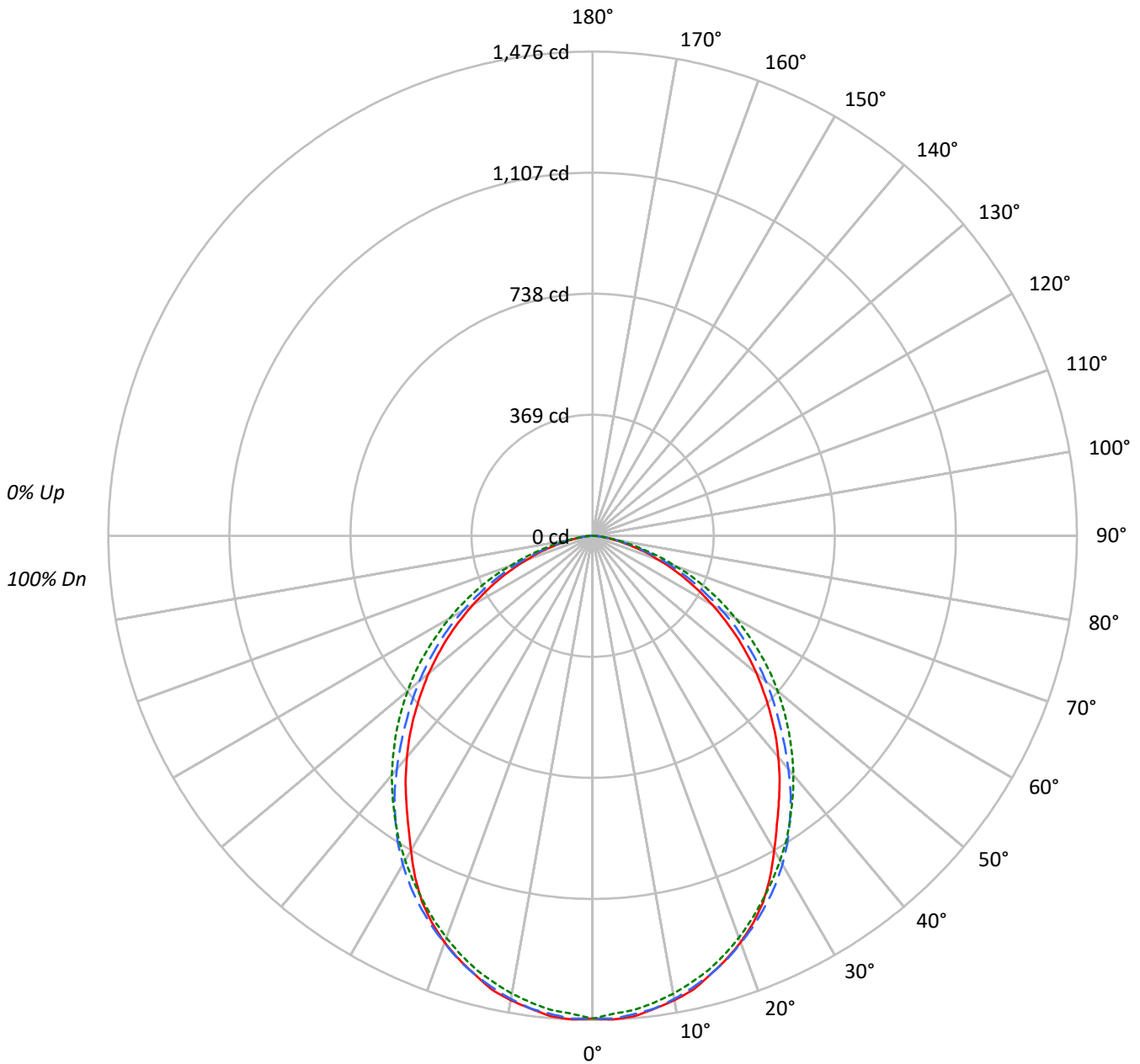
Lumens per Lamp: N/A
Luminaire Lumens: 3403.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555371

CATALOG NUMBER: FUSL-12-2-LD4-2STD-50-UNV-93-94-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°	7921	7921	7921
5°	7942	7908	7841
10°	7858	7836	7746
15°	7718	7718	7630
20°	7555	7565	7467
25°	7306	7397	7279
30°	6880	7189	7101
35°	6501	6891	6902
40°	6185	6518	6689
45°	5831	6123	6438
50°	5458	5771	6163
55°	5035	5369	5831
60°	4534	4899	5423
65°	4004	4357	4932
70°	3336	3710	4190
75°	2622	2963	3279
80°	1875	2086	2312
85°	1223	1223	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	4.1
10°-20°	389.3	11.4
20°-30°	568.9	16.7
30°-40°	645.7	19.0
40°-50°	623.3	18.3
50°-60°	514.2	15.1
60°-70°	342.4	10.1
70°-80°	153.2	4.5
80°-90°	27.4	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°	1096.7	32.2
0°-40°	1742.4	51.2
0°-60°	2879.9	84.6
0°-90°	3403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3403.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1470	1469	1464	1456	1451	139
15°	1385	1389	1385	1379	1369	390
25°	1230	1240	1246	1236	1226	563
35°	989	1003	1049	1054	1050	620
45°	766	779	804	841	846	591
55°	537	546	572	604	621	479
65°	314	323	342	366	387	312
75°	126	133	142	149	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°	1471.7	1471.7	1471.7	1471.7	1471.7
2.5°	1475.7	1476.2	1472.8	1463.8	1458.1
5°	1470.0	1469.4	1463.8	1455.9	1451.4
7.5°	1453.6	1454.7	1453.1	1441.7	1435.5
10°	1437.8	1438.4	1433.8	1424.8	1417.4
12.5°	1417.4	1416.9	1410.6	1406.1	1394.3
15°	1385.2	1388.6	1385.2	1379.0	1369.4
17.5°	1354.1	1354.1	1356.4	1345.6	1338.3
20°	1319.1	1320.8	1320.8	1312.3	1303.8
22.5°	1278.3	1283.4	1285.1	1276.1	1265.9
25°	1230.3	1239.9	1245.6	1236.5	1225.8
27.5°	1172.1	1186.8	1203.7	1196.9	1185.1
30°	1107.0	1128.5	1156.8	1151.1	1142.7
32.5°	1045.4	1066.9	1105.9	1103.6	1099.1
35°	989.4	1003.0	1048.8	1054.5	1050.5
37.5°	936.3	948.7	991.7	1004.7	1001.3
40°	880.3	893.9	927.8	951.0	952.1
42.5°	824.9	837.9	865.6	899.0	899.0
45°	766.1	779.1	804.5	841.3	845.8
47.5°	708.4	722.0	746.9	783.6	791.0
50°	651.9	664.3	689.2	724.8	736.1
52.5°	593.1	606.7	631.0	663.8	680.2
55°	536.6	545.6	572.2	603.8	621.4
57.5°	477.8	486.2	516.2	543.3	561.4
60°	421.2	432.0	455.1	482.8	503.8
62.5°	366.9	378.2	398.0	422.3	446.1
65°	314.4	322.8	342.1	366.4	387.3
67.5°	263.5	270.8	290.0	307.0	329.1
70°	212.0	221.6	235.8	252.2	266.3
72.5°	170.7	174.7	186.6	198.5	213.2
75°	126.1	132.9	142.5	149.3	157.7
77.5°	90.5	94.4	100.1	105.7	113.6
80°	60.5	62.2	67.3	68.4	74.6
82.5°	36.8	37.9	39.0	39.6	41.8
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)