

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: P555307

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-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: P555307
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-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

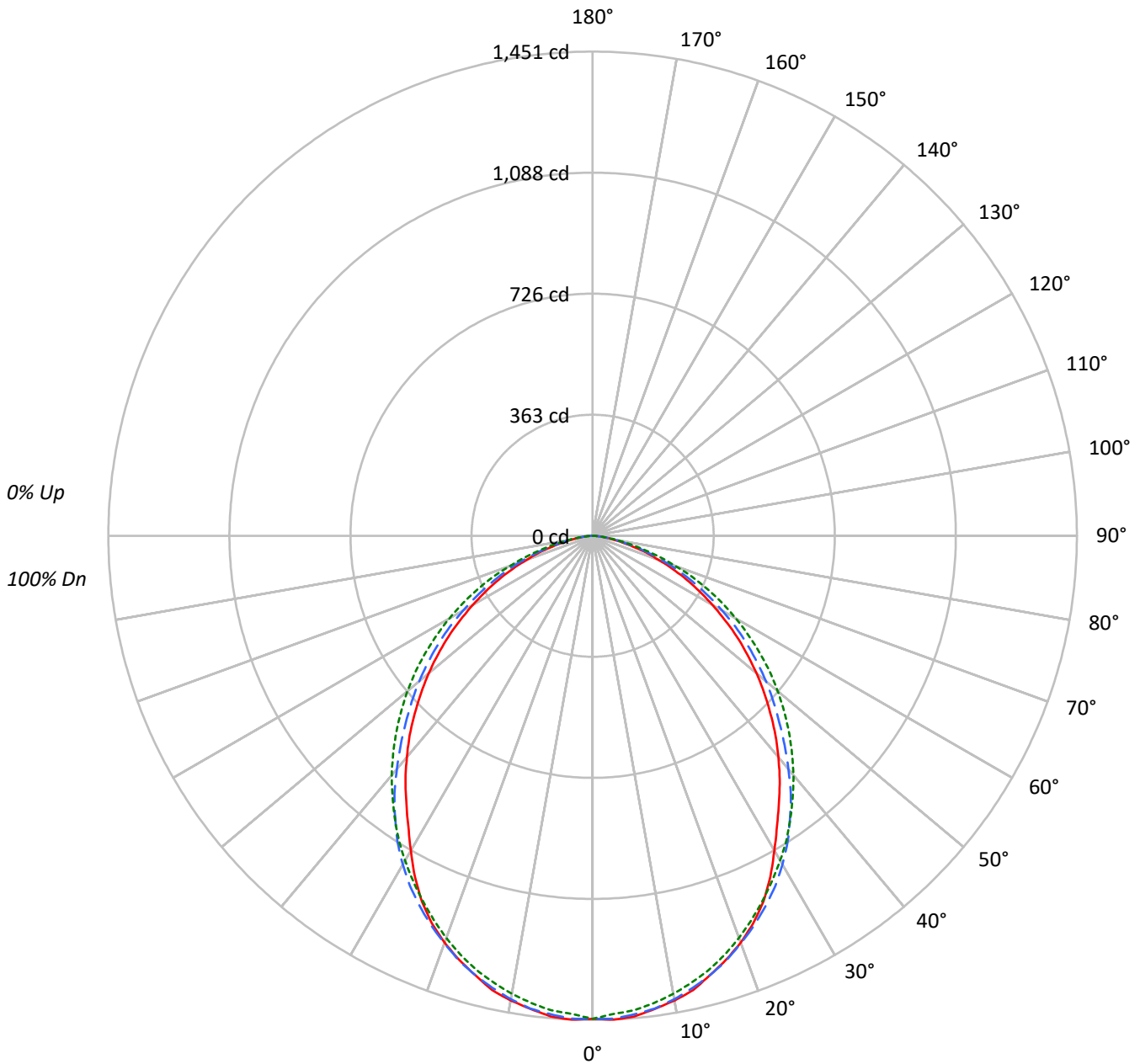
Lumens per Lamp: N/A
Luminaire Lumens: 3347.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	7790	7790	7790
5°	7811	7778	7712
10°	7728	7707	7619
15°	7591	7591	7504
20°	7430	7440	7344
25°	7185	7275	7159
30°	6766	7071	6984
35°	6393	6777	6788
40°	6083	6411	6579
45°	5735	6023	6332
50°	5369	5676	6062
55°	4951	5281	5734
60°	4459	4818	5334
65°	3938	4284	4851
70°	3281	3649	4121
75°	2578	2913	3225
80°	1844	2052	2275
85°	1204	1204	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	4.1
10°-20°	382.9	11.4
20°-30°	559.5	16.7
30°-40°	635.1	19.0
40°-50°	613.1	18.3
50°-60°	505.7	15.1
60°-70°	336.8	10.1
70°-80°	150.7	4.5
80°-90°	27.0	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°	1078.6	32.2
0°-40°	1713.7	51.2
0°-60°	2832.5	84.6
0°-90°	3347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3347.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1446	1445	1440	1432	1428	137
15°	1362	1366	1362	1356	1347	384
25°	1210	1220	1225	1216	1206	554
35°	973	986	1032	1037	1033	610
45°	754	766	791	828	832	581
55°	528	537	563	594	611	471
65°	309	318	336	360	381	307
75°	124	131	140	147	155	136
85°	20	20	20	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1447.5	1447.5	1447.5	1447.5	1447.5
2.5°	1451.4	1451.9	1448.6	1439.7	1434.1
5°	1445.8	1445.3	1439.7	1431.9	1427.5
7.5°	1429.7	1430.8	1429.1	1418.0	1411.9
10°	1414.1	1414.7	1410.2	1401.3	1394.1
12.5°	1394.1	1393.6	1387.4	1383.0	1371.3
15°	1362.4	1365.7	1362.4	1356.3	1346.8
17.5°	1331.8	1331.8	1334.0	1323.5	1316.3
20°	1297.3	1299.0	1299.0	1290.7	1282.3
22.5°	1257.3	1262.3	1264.0	1255.1	1245.1
25°	1210.0	1219.5	1225.1	1216.2	1205.6
27.5°	1152.8	1167.2	1183.9	1177.2	1165.6
30°	1088.8	1109.9	1137.8	1132.2	1123.8
32.5°	1028.2	1049.3	1087.7	1085.5	1081.0
35°	973.1	986.5	1031.5	1037.1	1033.2
37.5°	920.9	933.1	975.4	988.2	984.8
40°	865.8	879.2	912.5	935.3	936.4
42.5°	811.3	824.1	851.4	884.2	884.2
45°	753.5	766.3	791.3	827.5	831.9
47.5°	696.8	710.1	734.6	770.7	778.0
50°	641.2	653.4	677.9	712.9	724.0
52.5°	583.3	596.7	620.6	652.8	669.0
55°	527.7	536.6	562.8	593.9	611.1
57.5°	469.9	478.2	507.7	534.4	552.2
60°	414.3	424.8	447.6	474.9	495.5
62.5°	360.9	372.0	391.5	415.4	438.8
65°	309.2	317.5	336.4	360.3	380.9
67.5°	259.1	266.4	285.3	302.0	323.6
70°	208.5	218.0	231.9	248.0	261.9
72.5°	167.9	171.8	183.5	195.2	209.6
75°	124.0	130.7	140.1	146.8	155.1
77.5°	89.0	92.9	98.4	104.0	111.8
80°	59.5	61.2	66.2	67.3	73.4
82.5°	36.1	37.3	38.4	38.9	41.2
85°	19.5	19.5	19.5	18.4	18.4
87.5°	11.1	11.1	9.5	7.8	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)