

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: P555946

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-93-94-EDD-90**

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: P555946
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-LD4-3STD-30-UNV-93-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

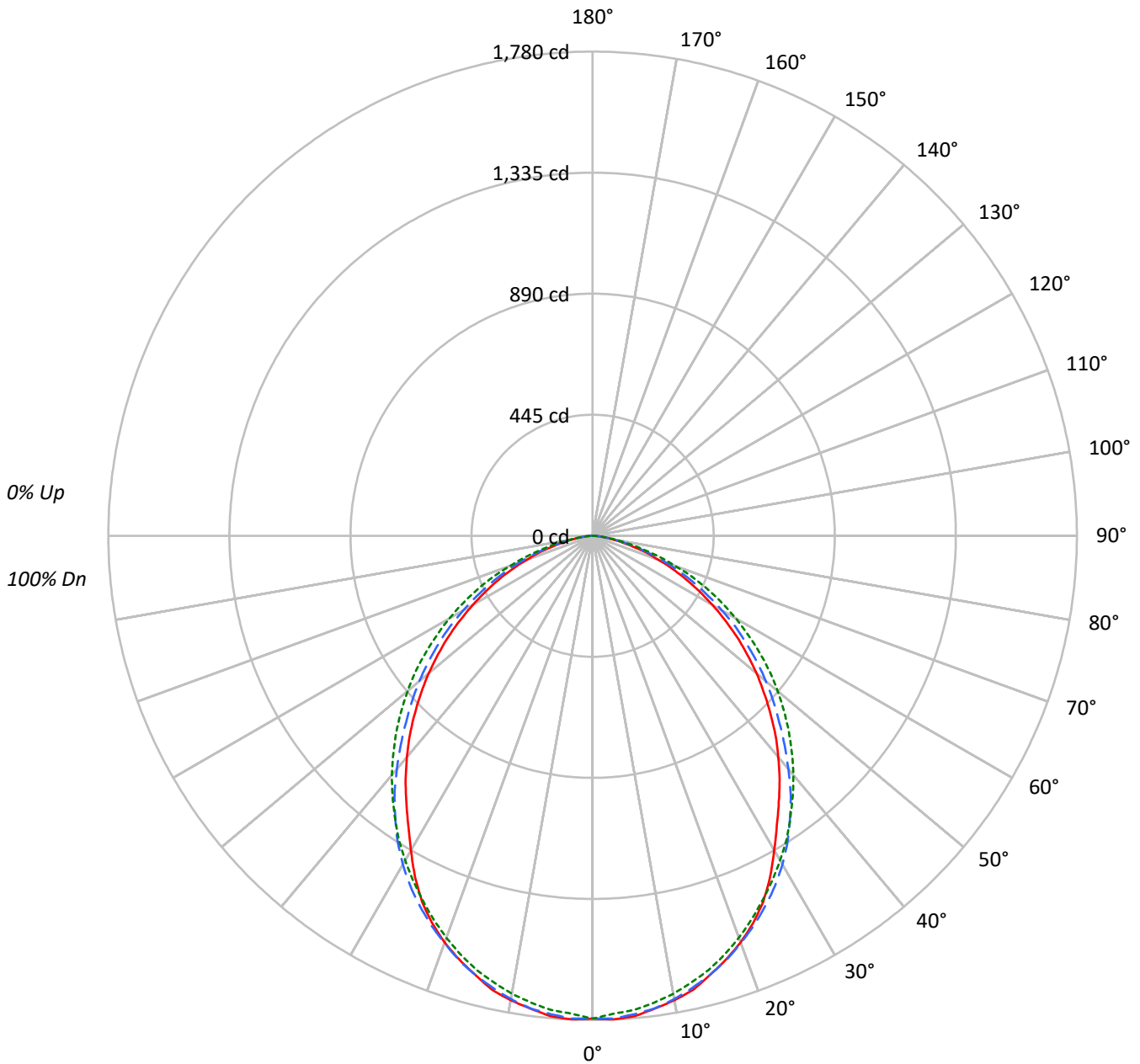
Lumens per Lamp: N/A
Luminaire Lumens: 4104.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	9552	9552	9552
5°	9578	9537	9456
10°	9476	9450	9342
15°	9308	9308	9202
20°	9111	9123	9006
25°	8811	8920	8779
30°	8297	8670	8564
35°	7840	8310	8324
40°	7459	7861	8067
45°	7032	7385	7764
50°	6583	6960	7433
55°	6072	6474	7032
60°	5468	5908	6539
65°	4828	5253	5948
70°	4024	4474	5054
75°	3163	3572	3955
80°	2263	2514	2789
85°	1476	1476	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	4.1
10°-20°	469.5	11.4
20°-30°	686.0	16.7
30°-40°	778.7	19.0
40°-50°	751.7	18.3
50°-60°	620.1	15.1
60°-70°	412.9	10.1
70°-80°	184.8	4.5
80°-90°	33.1	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°	1322.6	32.2
0°-40°	2101.3	51.2
0°-60°	3473.2	84.6
0°-90°	4104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1773	1772	1765	1756	1750	168
15°	1670	1675	1670	1663	1652	471
25°	1484	1495	1502	1491	1478	679
35°	1193	1210	1265	1272	1267	748
45°	924	940	970	1015	1020	713
55°	647	658	690	728	749	578
65°	379	389	412	442	467	376
75°	152	160	172	180	190	166
85°	24	24	24	22	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1774.9	1774.9	1774.9	1774.9	1774.9
2.5°	1779.6	1780.3	1776.2	1765.3	1758.5
5°	1772.8	1772.1	1765.3	1755.8	1750.3
7.5°	1753.1	1754.4	1752.4	1738.7	1731.2
10°	1734.0	1734.6	1729.2	1718.3	1709.4
12.5°	1709.4	1708.7	1701.2	1695.8	1681.5
15°	1670.5	1674.6	1670.5	1663.0	1651.5
17.5°	1633.0	1633.0	1635.8	1622.8	1614.0
20°	1590.8	1592.8	1592.8	1582.6	1572.4
22.5°	1541.7	1547.8	1549.9	1539.0	1526.7
25°	1483.7	1495.3	1502.1	1491.2	1478.3
27.5°	1413.5	1431.2	1451.7	1443.5	1429.2
30°	1335.1	1361.0	1395.1	1388.3	1378.0
32.5°	1260.8	1286.7	1333.7	1331.0	1325.5
35°	1193.2	1209.6	1264.8	1271.7	1266.9
37.5°	1129.2	1144.2	1196.0	1211.7	1207.6
40°	1061.7	1078.0	1118.9	1146.9	1148.2
42.5°	994.8	1010.5	1043.9	1084.2	1084.2
45°	923.9	939.6	970.3	1014.6	1020.1
47.5°	854.4	870.7	900.7	945.1	953.9
50°	786.2	801.2	831.2	874.1	887.8
52.5°	715.3	731.6	761.0	800.5	820.3
55°	647.1	658.0	690.0	728.2	749.4
57.5°	576.2	586.4	622.5	655.3	677.1
60°	508.0	520.9	548.9	582.3	607.5
62.5°	442.5	456.2	480.0	509.3	538.0
65°	379.1	389.3	412.5	441.8	467.1
67.5°	317.7	326.6	349.8	370.2	396.8
70°	255.7	267.3	284.3	304.1	321.2
72.5°	205.9	210.7	225.0	239.3	257.1
75°	152.1	160.2	171.8	180.0	190.2
77.5°	109.1	113.9	120.7	127.5	137.1
80°	73.0	75.0	81.1	82.5	90.0
82.5°	44.3	45.7	47.0	47.7	50.5
85°	23.9	23.9	23.9	22.5	22.5
87.5°	13.6	13.6	11.6	9.5	6.8
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)