

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: P556124

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-82-96-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: P556124
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-50-UNV-82-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

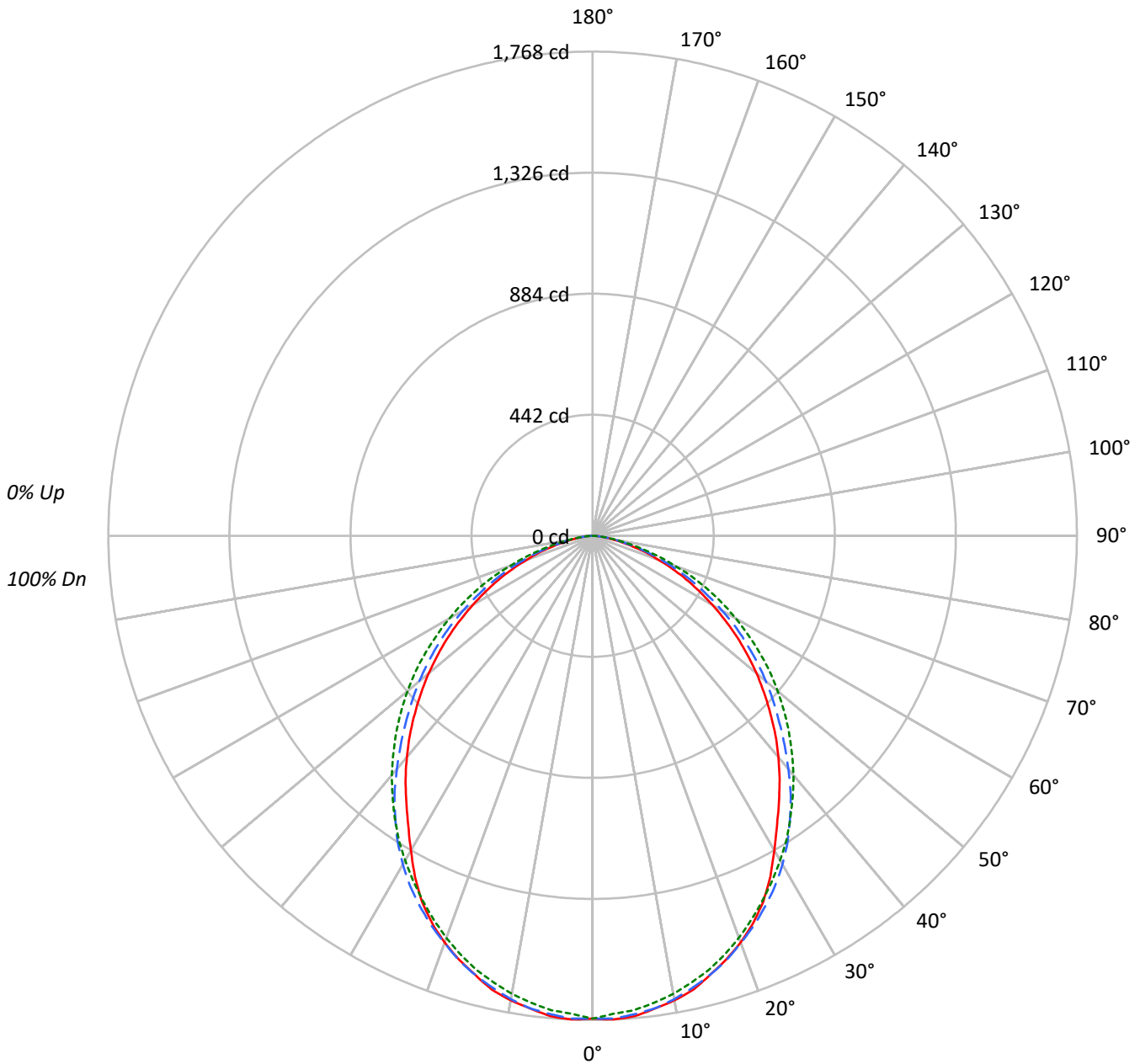
Lumens per Lamp: N/A
Luminaire Lumens: 4077.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	9489	9489	9489
5°	9515	9474	9394
10°	9414	9388	9281
15°	9247	9247	9141
20°	9051	9062	8946
25°	8753	8861	8720
30°	8242	8613	8508
35°	7788	8255	8269
40°	7410	7810	8014
45°	6986	7336	7712
50°	6539	6913	7384
55°	6031	6432	6985
60°	5431	5870	6496
65°	4796	5219	5909
70°	3997	4445	5020
75°	3142	3550	3930
80°	2247	2498	2771
85°	1463	1463	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	4.1
10°-20°	466.4	11.4
20°-30°	681.5	16.7
30°-40°	773.6	19.0
40°-50°	746.8	18.3
50°-60°	616.0	15.1
60°-70°	410.2	10.1
70°-80°	183.6	4.5
80°-90°	32.8	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°	1313.9	32.2
0°-40°	2087.5	51.2
0°-60°	3450.3	84.6
0°-90°	4077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1763	1763	1763	1763	1763	
5°	1761	1760	1754	1744	1739	167
15°	1660	1664	1660	1652	1641	468
25°	1474	1486	1492	1481	1468	675
35°	1185	1202	1256	1263	1259	743
45°	918	933	964	1008	1013	708
55°	643	654	686	723	744	574
65°	377	387	410	439	464	373
75°	151	159	171	179	189	165
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°	1763.2	1763.2	1763.2	1763.2	1763.2
2.5°	1767.9	1768.6	1764.6	1753.7	1746.9
5°	1761.2	1760.5	1753.7	1744.2	1738.8
7.5°	1741.5	1742.9	1740.8	1727.3	1719.8
10°	1722.6	1723.2	1717.8	1707.0	1698.2
12.5°	1698.2	1697.5	1690.0	1684.6	1670.4
15°	1659.6	1663.6	1659.6	1652.1	1640.6
17.5°	1622.3	1622.3	1625.0	1612.1	1603.3
20°	1580.3	1582.3	1582.3	1572.2	1562.0
22.5°	1531.5	1537.6	1539.7	1528.8	1516.6
25°	1474.0	1485.5	1492.2	1481.4	1468.5
27.5°	1404.2	1421.8	1442.1	1434.0	1419.8
30°	1326.3	1352.0	1385.9	1379.1	1369.0
32.5°	1252.5	1278.2	1324.9	1322.2	1316.8
35°	1185.4	1201.7	1256.5	1263.3	1258.6
37.5°	1121.7	1136.6	1188.1	1203.7	1199.6
40°	1054.7	1070.9	1111.6	1139.3	1140.7
42.5°	988.3	1003.9	1037.1	1077.0	1077.0
45°	917.8	933.4	963.9	1007.9	1013.3
47.5°	848.7	865.0	894.8	938.8	947.6
50°	781.0	795.9	825.7	868.4	881.9
52.5°	710.6	726.8	755.9	795.2	814.9
55°	642.8	653.7	685.5	723.4	744.4
57.5°	572.4	582.5	618.4	651.0	672.6
60°	504.6	517.5	545.3	578.5	603.5
62.5°	439.6	453.2	476.9	506.0	534.4
65°	376.6	386.8	409.8	438.9	464.0
67.5°	315.7	324.5	347.5	367.8	394.2
70°	254.0	265.5	282.5	302.1	319.0
72.5°	204.6	209.3	223.5	237.8	255.4
75°	151.1	159.2	170.7	178.8	189.0
77.5°	108.4	113.1	119.9	126.7	136.2
80°	72.5	74.5	80.6	82.0	89.4
82.5°	44.0	45.4	46.7	47.4	50.1
85°	23.7	23.7	23.7	22.4	22.4
87.5°	13.5	13.5	11.5	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)