

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: P556125

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-82-96-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: P556125
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
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

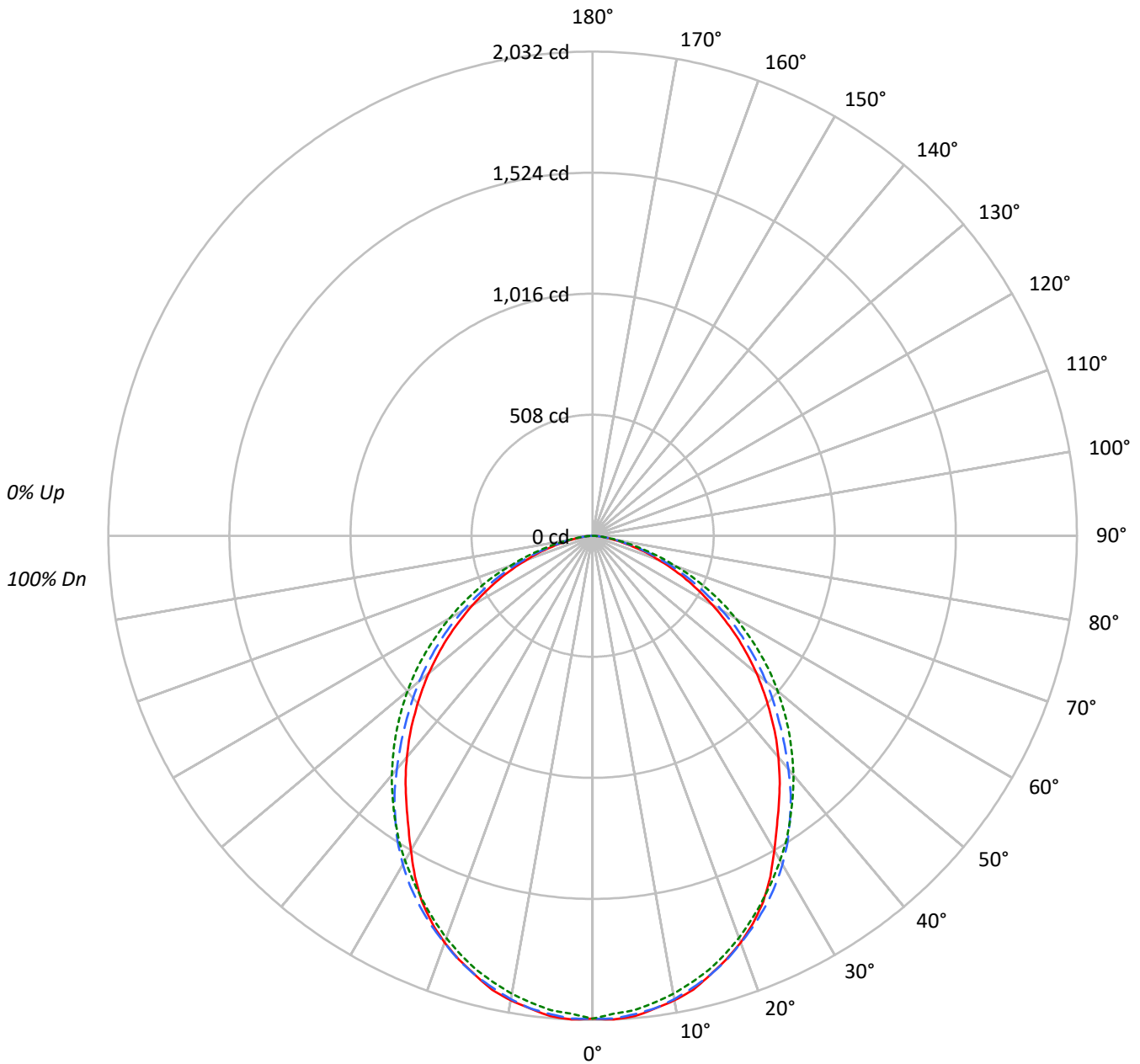
Lumens per Lamp: N/A
Luminaire Lumens: 4686.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: FUSL-12-2-LD4-3STD-50-UNV-82-96-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°	10907	10907	10907
5°	10936	10890	10797
10°	10820	10790	10667
15°	10628	10628	10507
20°	10403	10416	10282
25°	10060	10185	10023
30°	9473	9899	9779
35°	8952	9489	9504
40°	8516	8976	9211
45°	8029	8432	8865
50°	7516	7947	8488
55°	6932	7393	8028
60°	6243	6746	7467
65°	5513	5998	6791
70°	4595	5109	5770
75°	3610	4080	4517
80°	2582	2870	3186
85°	1680	1680	1587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	4.1
10°-20°	536.0	11.4
20°-30°	783.3	16.7
30°-40°	889.2	19.0
40°-50°	858.3	18.3
50°-60°	708.1	15.1
60°-70°	471.5	10.1
70°-80°	211.0	4.5
80°-90°	37.7	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°	1510.2	32.2
0°-40°	2399.3	51.2
0°-60°	3965.7	84.6
0°-90°	4686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2027	2027	2027	2027	2027	
5°	2024	2024	2016	2005	1998	192
15°	1908	1912	1908	1899	1886	538
25°	1694	1707	1715	1703	1688	776
35°	1362	1381	1444	1452	1447	854
45°	1055	1073	1108	1158	1165	814
55°	739	751	788	832	856	659
65°	433	445	471	504	533	429
75°	174	183	196	206	217	190
85°	27	27	27	26	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2026.6	2026.6	2026.6	2026.6	2026.6
2.5°	2032.0	2032.8	2028.1	2015.7	2007.9
5°	2024.2	2023.5	2015.7	2004.8	1998.5
7.5°	2001.7	2003.2	2000.9	1985.3	1976.7
10°	1979.9	1980.6	1974.4	1962.0	1951.8
12.5°	1951.8	1951.1	1942.5	1936.3	1919.9
15°	1907.5	1912.1	1907.5	1898.9	1885.7
17.5°	1864.6	1864.6	1867.7	1853.0	1842.8
20°	1816.4	1818.7	1818.7	1807.0	1795.3
22.5°	1760.3	1767.3	1769.7	1757.2	1743.2
25°	1694.1	1707.4	1715.2	1702.7	1687.9
27.5°	1613.9	1634.2	1657.5	1648.2	1631.8
30°	1524.4	1554.0	1592.9	1585.1	1573.5
32.5°	1439.5	1469.1	1522.9	1519.7	1513.5
35°	1362.5	1381.2	1444.2	1452.0	1446.6
37.5°	1289.3	1306.4	1365.6	1383.5	1378.8
40°	1212.2	1230.9	1277.6	1309.5	1311.1
42.5°	1135.9	1153.8	1192.0	1237.9	1237.9
45°	1054.9	1072.8	1107.9	1158.5	1164.7
47.5°	975.5	994.2	1028.5	1079.1	1089.2
50°	897.7	914.8	949.1	998.1	1013.7
52.5°	816.7	835.4	868.9	914.0	936.6
55°	738.8	751.3	787.9	831.5	855.6
57.5°	657.9	669.6	710.8	748.2	773.1
60°	580.0	594.8	626.7	664.9	693.7
62.5°	505.3	520.9	548.1	581.6	614.3
65°	432.9	444.6	471.0	504.5	533.3
67.5°	362.8	372.9	399.4	422.8	453.1
70°	292.0	305.2	324.7	347.2	366.7
72.5°	235.1	240.6	256.9	273.3	293.5
75°	173.6	183.0	196.2	205.5	217.2
77.5°	124.6	130.0	137.8	145.6	156.5
80°	83.3	85.6	92.6	94.2	102.8
82.5°	50.6	52.2	53.7	54.5	57.6
85°	27.2	27.2	27.2	25.7	25.7
87.5°	15.6	15.6	13.2	10.9	7.8
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)