

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: P556061

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-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: P556061
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-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

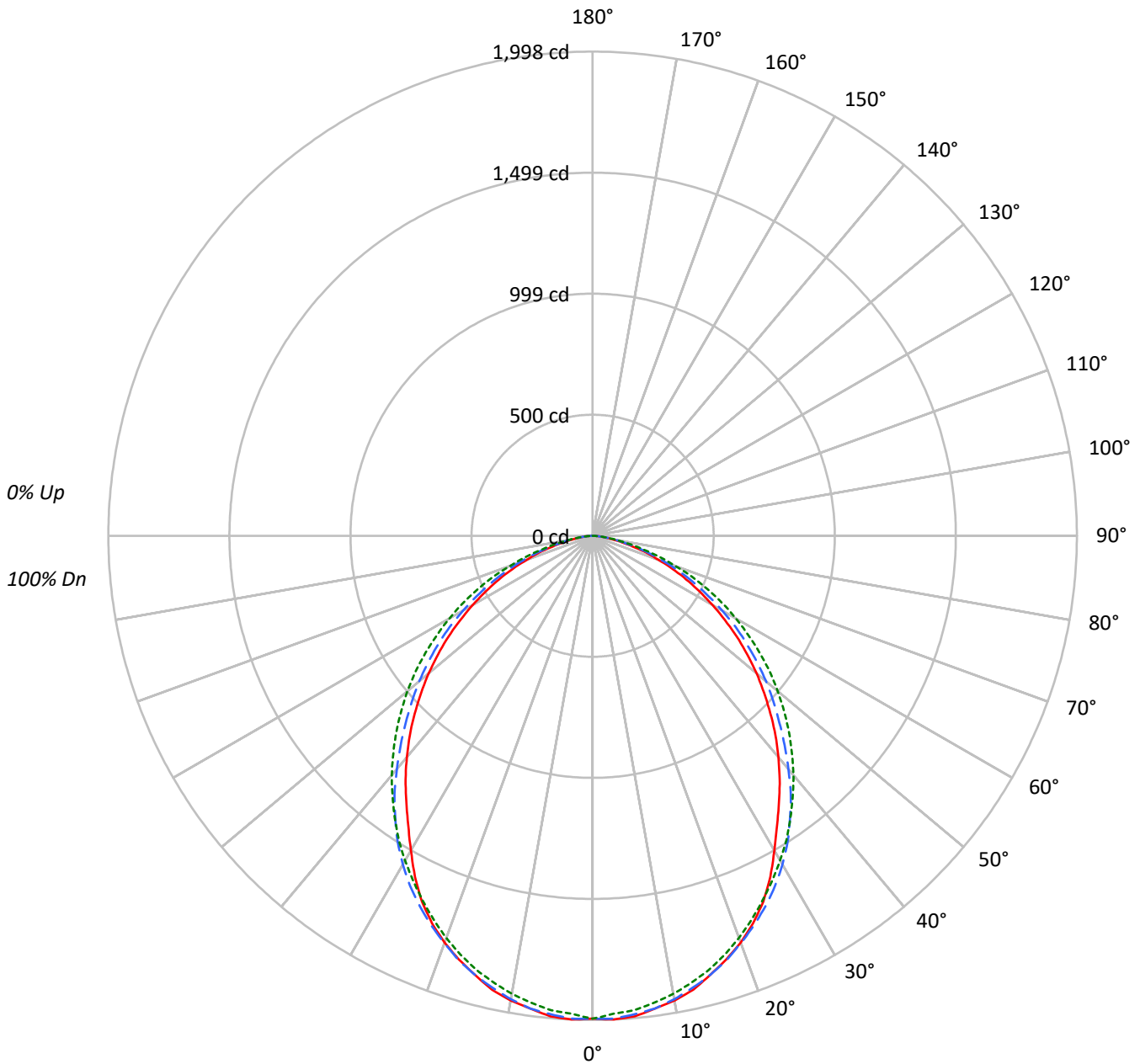
Lumens per Lamp: N/A
Luminaire Lumens: 4608.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10725	10725	10725
5°	10754	10708	10618
10°	10640	10610	10489
15°	10451	10451	10332
20°	10230	10243	10112
25°	9893	10016	9856
30°	9316	9734	9616
35°	8803	9331	9346
40°	8375	8826	9058
45°	7896	8292	8717
50°	7391	7814	8346
55°	6817	7270	7895
60°	6140	6634	7342
65°	5421	5899	6678
70°	4518	5024	5674
75°	3550	4011	4442
80°	2538	2824	3133
85°	1655	1655	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.6	4.1
10°-20°	527.1	11.4
20°-30°	770.3	16.7
30°-40°	874.4	19.0
40°-50°	844.1	18.3
50°-60°	696.3	15.1
60°-70°	463.7	10.1
70°-80°	207.5	4.5
80°-90°	37.1	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°	1485.0	32.2
0°-40°	2359.4	51.2
0°-60°	3899.7	84.6
0°-90°	4608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1993	1993	1993	1993	1993	
5°	1990	1990	1982	1971	1965	188
15°	1876	1880	1876	1867	1854	529
25°	1666	1679	1687	1674	1660	763
35°	1340	1358	1420	1428	1422	839
45°	1037	1055	1089	1139	1145	800
55°	726	739	775	818	841	648
65°	426	437	463	496	524	422
75°	171	180	193	202	214	187
85°	27	27	27	25	25	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1992.8	1992.8	1992.8	1992.8	1992.8
2.5°	1998.2	1999.0	1994.4	1982.1	1974.5
5°	1990.5	1989.8	1982.1	1971.4	1965.3
7.5°	1968.3	1969.9	1967.6	1952.3	1943.8
10°	1946.9	1947.7	1941.5	1929.3	1919.3
12.5°	1919.3	1918.6	1910.2	1904.0	1888.0
15°	1875.7	1880.3	1875.7	1867.3	1854.3
17.5°	1833.6	1833.6	1836.7	1822.1	1812.2
20°	1786.1	1788.4	1788.4	1776.9	1765.5
22.5°	1731.0	1737.9	1740.2	1727.9	1714.2
25°	1665.9	1678.9	1686.6	1674.4	1659.8
27.5°	1587.1	1607.0	1629.9	1620.8	1604.7
30°	1499.0	1528.1	1566.4	1558.7	1547.3
32.5°	1415.6	1444.7	1497.5	1494.4	1488.3
35°	1339.8	1358.2	1420.2	1427.8	1422.5
37.5°	1267.8	1284.7	1342.9	1360.5	1355.9
40°	1192.0	1210.4	1256.3	1287.7	1289.3
42.5°	1117.0	1134.6	1172.1	1217.3	1217.3
45°	1037.4	1055.0	1089.4	1139.2	1145.3
47.5°	959.3	977.7	1011.3	1061.1	1071.1
50°	882.7	899.6	933.3	981.5	996.8
52.5°	803.1	821.5	854.4	898.8	921.0
55°	726.5	738.8	774.8	817.7	841.4
57.5°	646.9	658.4	699.0	735.7	760.2
60°	570.4	584.9	616.3	653.8	682.1
62.5°	496.9	512.2	539.0	571.9	604.1
65°	425.7	437.2	463.2	496.1	524.4
67.5°	356.8	366.7	392.7	415.7	445.6
70°	287.1	300.1	319.3	341.5	360.6
72.5°	231.2	236.6	252.6	268.7	288.6
75°	170.7	179.9	192.9	202.1	213.6
77.5°	122.5	127.9	135.5	143.2	153.9
80°	81.9	84.2	91.1	92.6	101.1
82.5°	49.8	51.3	52.8	53.6	56.7
85°	26.8	26.8	26.8	25.3	25.3
87.5°	15.3	15.3	13.0	10.7	7.7
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)