

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: P555985

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-82-84-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: P555985
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-35-UNV-82-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

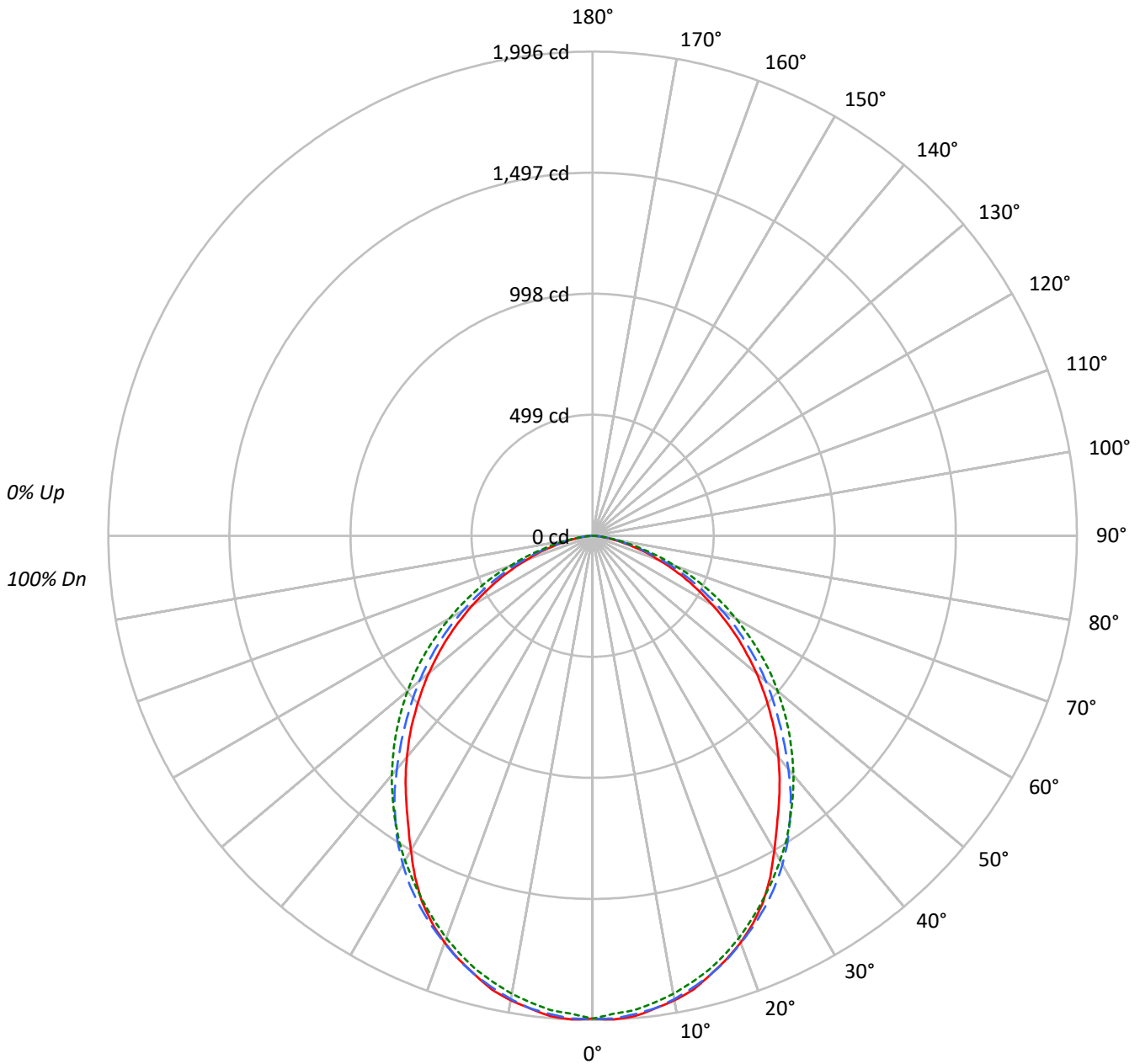
Lumens per Lamp: N/A
Luminaire Lumens: 4603.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): 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°	10714	10714	10714
5°	10742	10697	10606
10°	10628	10599	10478
15°	10440	10440	10321
20°	10219	10232	10100
25°	9882	10005	9846
30°	9306	9724	9605
35°	8793	9320	9336
40°	8365	8817	9048
45°	7888	8283	8708
50°	7383	7805	8337
55°	6810	7262	7887
60°	6132	6626	7335
65°	5415	5892	6672
70°	4513	5018	5668
75°	3545	4007	4438
80°	2535	2820	3127
85°	1655	1655	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	4.1
10°-20°	526.5	11.4
20°-30°	769.4	16.7
30°-40°	873.4	19.0
40°-50°	843.1	18.3
50°-60°	695.5	15.1
60°-70°	463.2	10.1
70°-80°	207.3	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°	1483.4	32.2
0°-40°	2356.8	51.2
0°-60°	3895.5	84.6
0°-90°	4603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1991	1991	1991	1991	1991	
5°	1988	1988	1980	1969	1963	188
15°	1874	1878	1874	1865	1852	528
25°	1664	1677	1685	1672	1658	762
35°	1338	1357	1419	1426	1421	839
45°	1036	1054	1088	1138	1144	800
55°	726	738	774	817	840	648
65°	425	437	463	496	524	422
75°	170	180	193	202	213	186
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°	1990.7	1990.7	1990.7	1990.7	1990.7
2.5°	1996.0	1996.8	1992.2	1980.0	1972.3
5°	1988.4	1987.6	1980.0	1969.3	1963.1
7.5°	1966.2	1967.7	1965.4	1950.1	1941.7
10°	1944.8	1945.6	1939.4	1927.2	1917.3
12.5°	1917.3	1916.5	1908.1	1902.0	1885.9
15°	1873.7	1878.3	1873.7	1865.3	1852.3
17.5°	1831.6	1831.6	1834.7	1820.1	1810.2
20°	1784.2	1786.5	1786.5	1775.0	1763.5
22.5°	1729.1	1736.0	1738.3	1726.1	1712.3
25°	1664.1	1677.1	1684.8	1672.5	1658.0
27.5°	1585.4	1605.2	1628.2	1619.0	1602.9
30°	1497.4	1526.5	1564.7	1557.1	1545.6
32.5°	1414.0	1443.1	1495.9	1492.8	1486.7
35°	1338.3	1356.7	1418.6	1426.3	1420.9
37.5°	1266.4	1283.3	1341.4	1359.0	1354.4
40°	1190.7	1209.1	1255.0	1286.3	1287.9
42.5°	1115.8	1133.4	1170.9	1216.0	1216.0
45°	1036.3	1053.8	1088.3	1138.0	1144.1
47.5°	958.2	976.6	1010.3	1060.0	1069.9
50°	881.8	898.6	932.2	980.4	995.7
52.5°	802.2	820.6	853.5	897.8	920.0
55°	725.8	738.0	773.9	816.8	840.5
57.5°	646.2	657.7	698.2	734.9	759.4
60°	569.7	584.3	615.6	653.1	681.4
62.5°	496.3	511.6	538.4	571.3	603.4
65°	425.2	436.7	462.7	495.6	523.9
67.5°	356.4	366.3	392.3	415.3	445.1
70°	286.8	299.8	318.9	341.1	360.2
72.5°	231.0	236.3	252.4	268.4	288.3
75°	170.5	179.7	192.7	201.9	213.4
77.5°	122.4	127.7	135.4	143.0	153.7
80°	81.8	84.1	91.0	92.5	100.9
82.5°	49.7	51.2	52.8	53.5	56.6
85°	26.8	26.8	26.8	25.2	25.2
87.5°	15.3	15.3	13.0	10.7	7.6
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)