

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: P556037

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-81-86-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: P556037
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-81-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

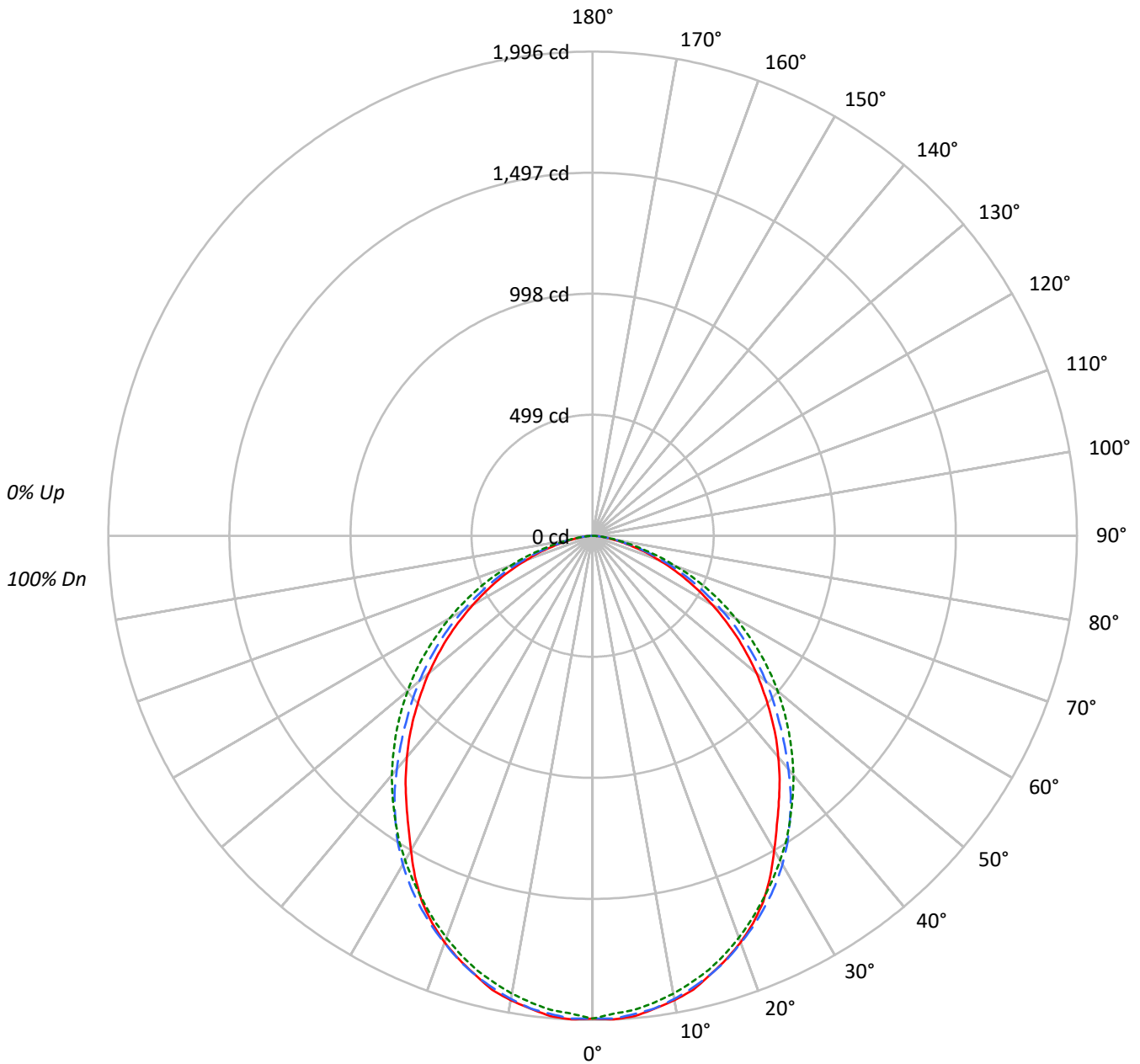
Lumens per Lamp: N/A
Luminaire Lumens: 4602.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10711	10711	10711
5°	10740	10694	10604
10°	10626	10597	10475
15°	10438	10438	10318
20°	10216	10230	10098
25°	9880	10003	9843
30°	9304	9722	9603
35°	8791	9318	9334
40°	8364	8815	9046
45°	7885	8281	8706
50°	7381	7803	8335
55°	6808	7261	7885
60°	6131	6625	7333
65°	5414	5891	6669
70°	4511	5017	5666
75°	3545	4007	4435
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°	526.4	11.4
20°-30°	769.3	16.7
30°-40°	873.2	19.0
40°-50°	842.9	18.3
50°-60°	695.4	15.1
60°-70°	463.1	10.1
70°-80°	207.2	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°	1483.1	32.2
0°-40°	2356.3	51.2
0°-60°	3894.6	84.6
0°-90°	4602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1990	1990	1990	1990	1990	
5°	1988	1987	1980	1969	1963	188
15°	1873	1878	1873	1865	1852	528
25°	1664	1677	1684	1672	1658	762
35°	1338	1356	1418	1426	1421	838
45°	1036	1054	1088	1138	1144	799
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°	1990.2	1990.2	1990.2	1990.2	1990.2
2.5°	1995.6	1996.4	1991.8	1979.5	1971.9
5°	1988.0	1987.2	1979.5	1968.8	1962.7
7.5°	1965.8	1967.3	1965.0	1949.7	1941.3
10°	1944.4	1945.1	1939.0	1926.8	1916.8
12.5°	1916.8	1916.1	1907.7	1901.6	1885.5
15°	1873.3	1877.9	1873.3	1864.9	1851.9
17.5°	1831.2	1831.2	1834.3	1819.7	1809.8
20°	1783.8	1786.1	1786.1	1774.6	1763.2
22.5°	1728.8	1735.6	1737.9	1725.7	1711.9
25°	1663.8	1676.8	1684.4	1672.2	1657.6
27.5°	1585.0	1604.9	1627.8	1618.7	1602.6
30°	1497.1	1526.1	1564.4	1556.7	1545.3
32.5°	1413.7	1442.8	1495.6	1492.5	1486.4
35°	1338.0	1356.4	1418.3	1426.0	1420.6
37.5°	1266.2	1283.0	1341.1	1358.7	1354.1
40°	1190.5	1208.8	1254.7	1286.1	1287.6
42.5°	1115.5	1133.1	1170.6	1215.7	1215.7
45°	1036.0	1053.6	1088.0	1137.7	1143.8
47.5°	958.0	976.4	1010.0	1059.7	1069.7
50°	881.6	898.4	932.0	980.2	995.5
52.5°	802.1	820.4	853.3	897.6	919.8
55°	725.6	737.8	773.8	816.6	840.3
57.5°	646.1	657.6	698.1	734.8	759.2
60°	569.6	584.2	615.5	653.0	681.3
62.5°	496.2	511.5	538.3	571.2	603.3
65°	425.1	436.6	462.6	495.5	523.7
67.5°	356.3	366.2	392.2	415.2	445.0
70°	286.7	299.7	318.8	341.0	360.1
72.5°	230.9	236.3	252.3	268.4	288.3
75°	170.5	179.7	192.7	201.9	213.3
77.5°	122.3	127.7	135.3	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)