

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: P556117

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-82-86-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: P556117
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-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

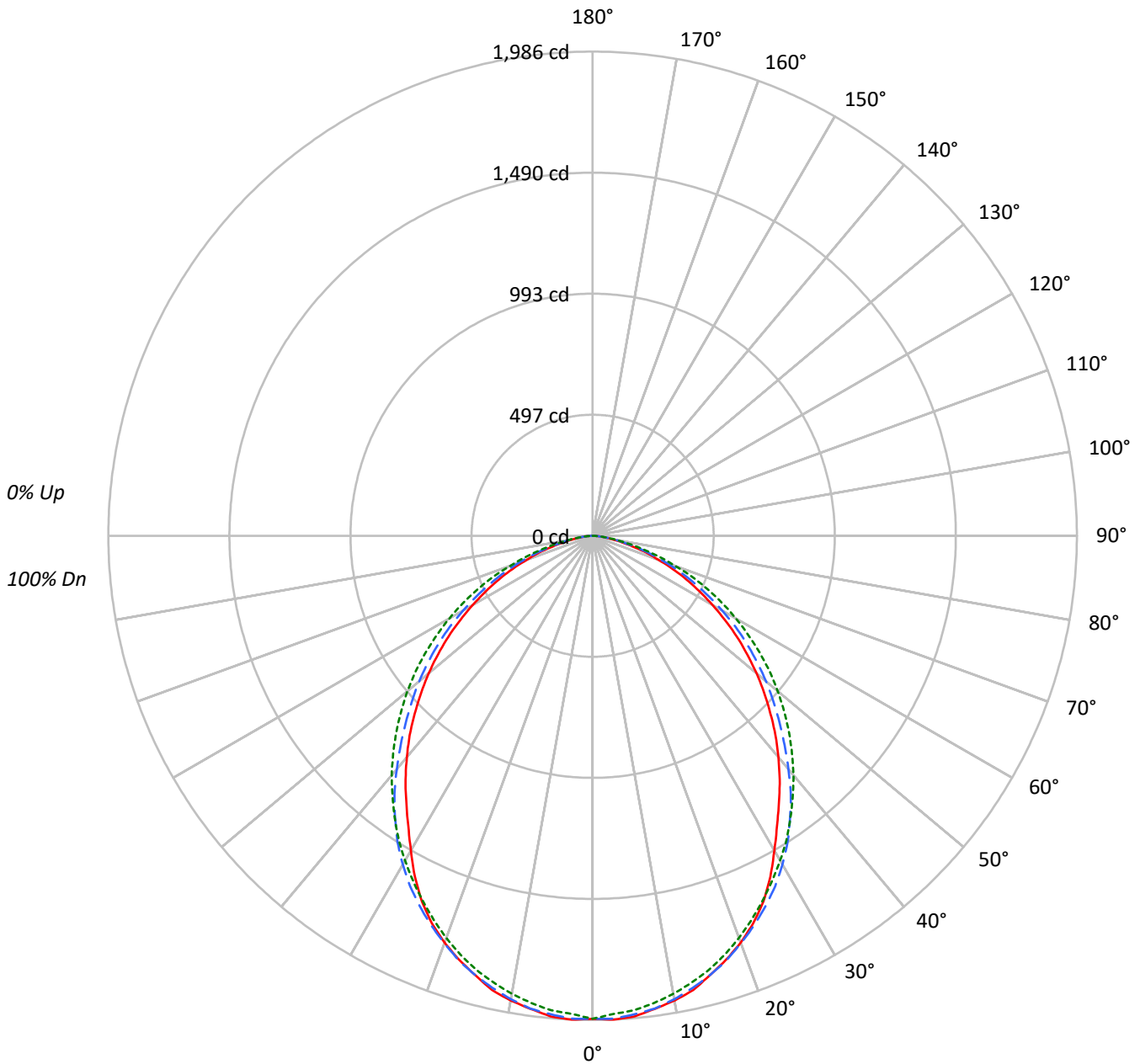
Lumens per Lamp: N/A
Luminaire Lumens: 4581.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10663	10663	10663
5°	10691	10646	10555
10°	10577	10549	10428
15°	10390	10390	10271
20°	10170	10183	10052
25°	9835	9957	9799
30°	9261	9677	9559
35°	8751	9276	9291
40°	8325	8775	9005
45°	7849	8244	8666
50°	7348	7768	8297
55°	6777	7227	7849
60°	6103	6595	7299
65°	5389	5864	6640
70°	4491	4995	5641
75°	3529	3988	4415
80°	2523	2808	3115
85°	1643	1643	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	4.1
10°-20°	524.0	11.4
20°-30°	765.8	16.7
30°-40°	869.2	19.0
40°-50°	839.1	18.3
50°-60°	692.2	15.1
60°-70°	461.0	10.1
70°-80°	206.3	4.5
80°-90°	36.9	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°	1476.3	32.2
0°-40°	2345.6	51.2
0°-60°	3876.9	84.6
0°-90°	4581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1981	1981	1981	1981	1981	
5°	1979	1978	1970	1960	1954	187
15°	1865	1869	1865	1856	1843	526
25°	1656	1669	1677	1664	1650	758
35°	1332	1350	1412	1420	1414	835
45°	1031	1049	1083	1132	1139	796
55°	722	734	770	813	836	645
65°	423	435	460	493	521	420
75°	170	179	192	201	212	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°	1981.2	1981.2	1981.2	1981.2	1981.2
2.5°	1986.5	1987.3	1982.7	1970.5	1962.9
5°	1978.9	1978.1	1970.5	1959.9	1953.8
7.5°	1956.8	1958.3	1956.0	1940.8	1932.5
10°	1935.5	1936.3	1930.2	1918.0	1908.1
12.5°	1908.1	1907.3	1899.0	1892.9	1876.9
15°	1864.7	1869.3	1864.7	1856.3	1843.4
17.5°	1822.9	1822.9	1825.9	1811.4	1801.5
20°	1775.7	1777.9	1777.9	1766.5	1755.1
22.5°	1720.9	1727.7	1730.0	1717.8	1704.1
25°	1656.2	1669.1	1676.7	1664.5	1650.1
27.5°	1577.8	1597.6	1620.4	1611.3	1595.3
30°	1490.2	1519.2	1557.2	1549.6	1538.2
32.5°	1407.3	1436.2	1488.7	1485.7	1479.6
35°	1331.9	1350.2	1411.9	1419.5	1414.1
37.5°	1260.4	1277.1	1335.0	1352.5	1347.9
40°	1185.0	1203.3	1249.0	1280.2	1281.7
42.5°	1110.5	1128.0	1165.3	1210.2	1210.2
45°	1031.3	1048.8	1083.1	1132.5	1138.6
47.5°	953.7	971.9	1005.4	1054.9	1064.8
50°	877.6	894.3	927.8	975.7	991.0
52.5°	798.4	816.7	849.4	893.5	915.6
55°	722.3	734.5	770.2	812.9	836.5
57.5°	643.1	654.6	694.9	731.4	755.8
60°	567.0	581.5	612.7	650.0	678.1
62.5°	494.0	509.2	535.8	568.5	600.5
65°	423.2	434.6	460.5	493.2	521.4
67.5°	354.7	364.6	390.4	413.3	443.0
70°	285.4	298.4	317.4	339.5	358.5
72.5°	229.9	235.2	251.2	267.1	286.9
75°	169.7	178.9	191.8	200.9	212.3
77.5°	121.8	127.1	134.7	142.3	153.0
80°	81.4	83.7	90.6	92.1	100.5
82.5°	49.5	51.0	52.5	53.3	56.3
85°	26.6	26.6	26.6	25.1	25.1
87.5°	15.2	15.2	12.9	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)