

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: P555941

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-93-86-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: P555941
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-30-UNV-93-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

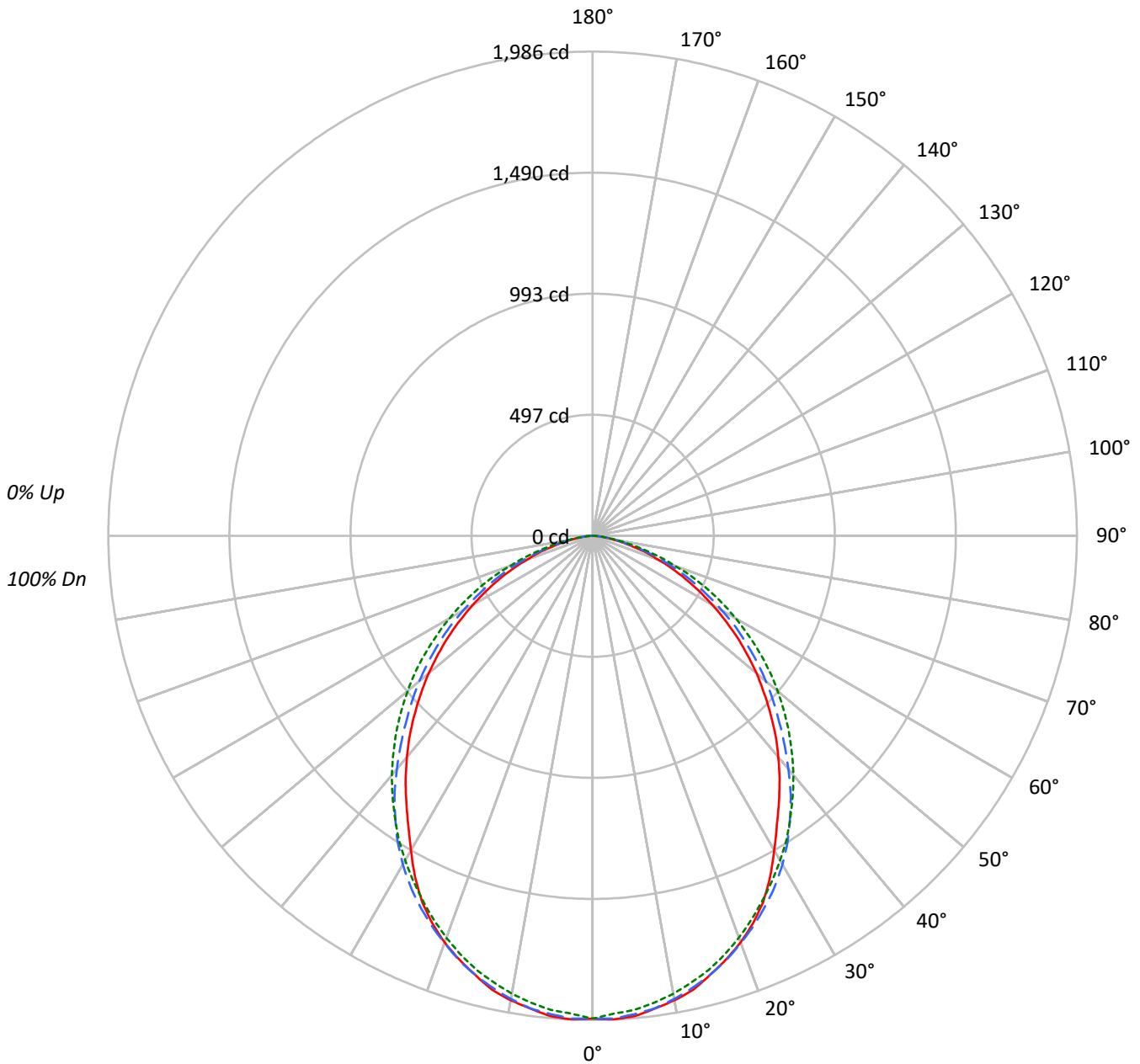
Lumens per Lamp: N/A
Luminaire Lumens: 4579.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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				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	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°	10658	10658	10658
5°	10686	10641	10551
10°	10573	10544	10423
15°	10385	10385	10267
20°	10165	10179	10048
25°	9830	9953	9795
30°	9257	9673	9555
35°	8748	9272	9287
40°	8322	8771	9001
45°	7846	8240	8662
50°	7345	7765	8293
55°	6775	7224	7845
60°	6101	6592	7297
65°	5387	5862	6636
70°	4489	4991	5638
75°	3529	3986	4415
80°	2523	2805	3112
85°	1643	1643	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	4.1
10°-20°	523.8	11.4
20°-30°	765.4	16.7
30°-40°	868.8	19.0
40°-50°	838.7	18.3
50°-60°	691.9	15.1
60°-70°	460.8	10.1
70°-80°	206.2	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°	1475.7	32.2
0°-40°	2344.5	51.2
0°-60°	3875.2	84.6
0°-90°	4579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4579.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1980	1980	1980	1980	1980	
5°	1978	1977	1970	1959	1953	187
15°	1864	1868	1864	1856	1843	525
25°	1655	1668	1676	1664	1649	758
35°	1331	1350	1411	1419	1414	834
45°	1031	1048	1083	1132	1138	795
55°	722	734	770	812	836	644
65°	423	434	460	493	521	419
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°	1980.3	1980.3	1980.3	1980.3	1980.3
2.5°	1985.6	1986.4	1981.8	1969.6	1962.0
5°	1978.0	1977.3	1969.6	1959.0	1952.9
7.5°	1956.0	1957.5	1955.2	1940.0	1931.6
10°	1934.7	1935.4	1929.3	1917.2	1907.3
12.5°	1907.3	1906.5	1898.1	1892.0	1876.1
15°	1863.9	1868.5	1863.9	1855.5	1842.6
17.5°	1822.1	1822.1	1825.1	1810.6	1800.8
20°	1774.9	1777.2	1777.2	1765.8	1754.3
22.5°	1720.1	1727.0	1729.2	1717.1	1703.4
25°	1655.4	1668.4	1676.0	1663.8	1649.4
27.5°	1577.1	1596.9	1619.7	1610.6	1594.6
30°	1489.6	1518.5	1556.5	1548.9	1537.5
32.5°	1406.7	1435.6	1488.1	1485.0	1478.9
35°	1331.4	1349.6	1411.2	1418.8	1413.5
37.5°	1259.8	1276.6	1334.4	1351.9	1347.3
40°	1184.5	1202.8	1248.4	1279.6	1281.1
42.5°	1110.0	1127.5	1164.7	1209.6	1209.6
45°	1030.9	1048.3	1082.6	1132.0	1138.1
47.5°	953.3	971.5	1005.0	1054.4	1064.3
50°	877.2	893.9	927.4	975.3	990.5
52.5°	798.1	816.3	849.0	893.2	915.2
55°	722.0	734.1	769.9	812.5	836.1
57.5°	642.9	654.3	694.6	731.1	755.5
60°	566.8	581.2	612.4	649.7	677.9
62.5°	493.7	509.0	535.6	568.3	600.3
65°	423.0	434.4	460.3	493.0	521.1
67.5°	354.5	364.4	390.3	413.1	442.8
70°	285.3	298.2	317.2	339.3	358.3
72.5°	229.8	235.1	251.1	267.0	286.8
75°	169.7	178.8	191.7	200.8	212.3
77.5°	121.7	127.0	134.7	142.3	152.9
80°	81.4	83.7	90.5	92.1	100.4
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)