

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: P555898

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-80-94-EDD-90**

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: P555898
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-80-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

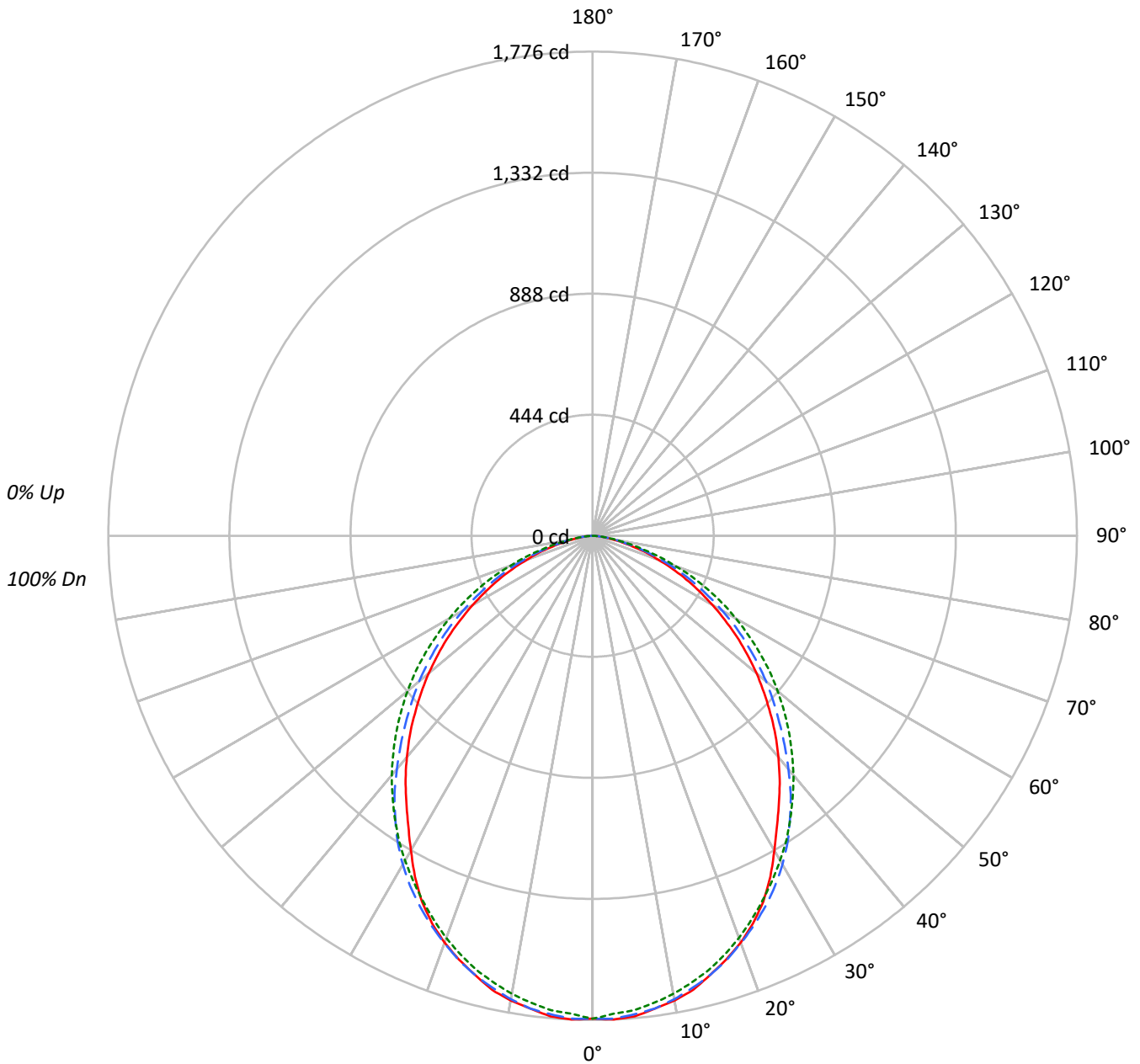
Lumens per Lamp: N/A
Luminaire Lumens: 4096.0 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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	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°	9534	9534	9534
5°	9559	9519	9438
10°	9458	9431	9324
15°	9290	9290	9183
20°	9093	9105	8988
25°	8793	8903	8761
30°	8281	8653	8547
35°	7824	8294	8307
40°	7444	7846	8051
45°	7018	7371	7749
50°	6569	6946	7418
55°	6060	6462	7018
60°	5457	5896	6527
65°	4819	5243	5937
70°	4016	4466	5043
75°	3157	3566	3949
80°	2256	2510	2783
85°	1470	1470	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	4.1
10°-20°	468.5	11.4
20°-30°	684.7	16.7
30°-40°	777.2	19.0
40°-50°	750.3	18.3
50°-60°	618.9	15.1
60°-70°	412.2	10.1
70°-80°	184.4	4.5
80°-90°	33.0	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°	1320.0	32.2
0°-40°	2097.2	51.2
0°-60°	3466.4	84.6
0°-90°	4096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1771	1771	1771	1771	1771	
5°	1769	1769	1762	1752	1747	167
15°	1667	1671	1667	1660	1648	470
25°	1481	1492	1499	1488	1475	678
35°	1191	1207	1262	1269	1264	746
45°	922	938	968	1013	1018	711
55°	646	657	689	727	748	576
65°	378	389	412	441	466	375
75°	152	160	172	180	190	166
85°	24	24	24	22	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1771.4	1771.4	1771.4	1771.4	1771.4
2.5°	1776.2	1776.9	1772.8	1761.9	1755.1
5°	1769.4	1768.7	1761.9	1752.4	1746.9
7.5°	1749.6	1751.0	1749.0	1735.3	1727.9
10°	1730.6	1731.3	1725.8	1714.9	1706.1
12.5°	1706.1	1705.4	1697.9	1692.5	1678.2
15°	1667.3	1671.4	1667.3	1659.8	1648.2
17.5°	1629.9	1629.9	1632.6	1619.7	1610.8
20°	1587.7	1589.7	1589.7	1579.5	1569.3
22.5°	1538.7	1544.8	1546.8	1536.0	1523.7
25°	1480.8	1492.4	1499.2	1488.3	1475.4
27.5°	1410.7	1428.4	1448.8	1440.7	1426.4
30°	1332.5	1358.3	1392.4	1385.6	1375.3
32.5°	1258.3	1284.2	1331.1	1328.4	1322.9
35°	1190.9	1207.3	1262.4	1269.2	1264.4
37.5°	1127.0	1141.9	1193.6	1209.3	1205.2
40°	1059.6	1075.9	1116.7	1144.6	1146.0
42.5°	992.9	1008.5	1041.9	1082.0	1082.0
45°	922.1	937.8	968.4	1012.6	1018.1
47.5°	852.7	869.0	899.0	943.2	952.1
50°	784.6	799.6	829.6	872.4	886.0
52.5°	713.9	730.2	759.5	798.9	818.7
55°	645.8	656.7	688.7	726.8	747.9
57.5°	575.0	585.3	621.3	654.0	675.8
60°	507.0	519.9	547.8	581.2	606.4
62.5°	441.7	455.3	479.1	508.4	536.9
65°	378.4	388.6	411.7	441.0	466.2
67.5°	317.1	326.0	349.1	369.5	396.1
70°	255.2	266.8	283.8	303.5	320.5
72.5°	205.5	210.3	224.6	238.9	256.6
75°	151.8	159.9	171.5	179.7	189.9
77.5°	108.9	113.6	120.5	127.3	136.8
80°	72.8	74.9	81.0	82.3	89.8
82.5°	44.2	45.6	47.0	47.6	50.4
85°	23.8	23.8	23.8	22.5	22.5
87.5°	13.6	13.6	11.6	9.5	6.8
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)