

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: P554785

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-93-84-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: P554785
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-LD4-2HI-40-UNV-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

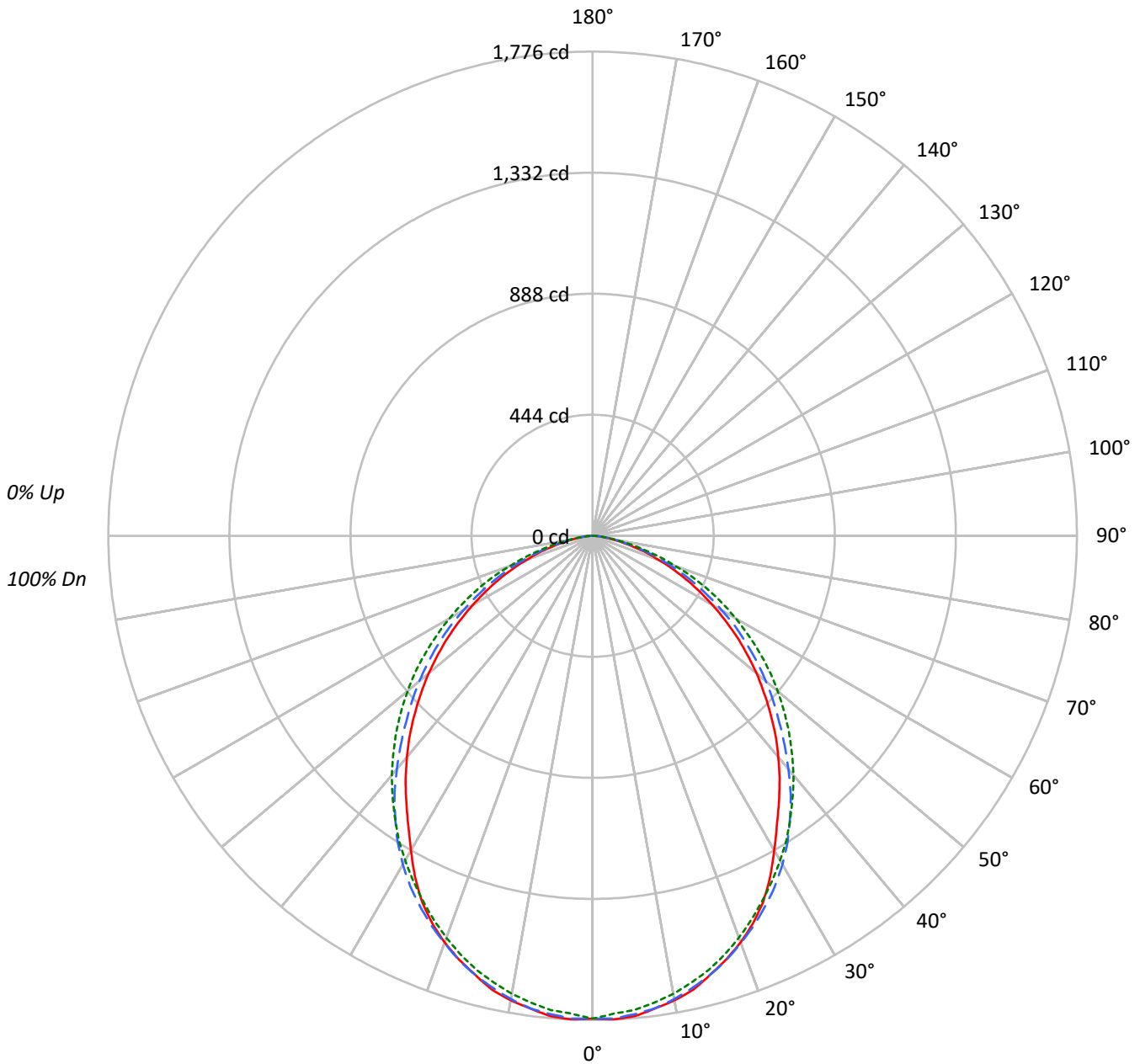
Lumens per Lamp: N/A
Luminaire Lumens: 4095.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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									
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°	9531	9531	9531
5°	9557	9517	9435
10°	9456	9429	9322
15°	9288	9288	9181
20°	9091	9102	8986
25°	8792	8900	8759
30°	8278	8651	8545
35°	7822	8292	8305
40°	7442	7844	8049
45°	7017	7369	7747
50°	6568	6944	7417
55°	6059	6460	7016
60°	5456	5895	6525
65°	4818	5242	5934
70°	4014	4464	5043
75°	3154	3566	3947
80°	2256	2510	2783
85°	1470	1470	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.7	4.1
10°-20°	468.4	11.4
20°-30°	684.5	16.7
30°-40°	777.0	19.0
40°-50°	750.1	18.3
50°-60°	618.8	15.1
60°-70°	412.0	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°	1319.7	32.2
0°-40°	2096.7	51.2
0°-60°	3465.6	84.6
0°-90°	4095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4095.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1771	1771	1771	1771	1771	
5°	1769	1768	1762	1752	1746	167
15°	1667	1671	1667	1659	1648	470
25°	1480	1492	1499	1488	1475	678
35°	1191	1207	1262	1269	1264	746
45°	922	938	968	1012	1018	711
55°	646	656	688	727	748	576
65°	378	388	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°	1771.0	1771.0	1771.0	1771.0	1771.0
2.5°	1775.7	1776.4	1772.3	1761.5	1754.7
5°	1768.9	1768.3	1761.5	1751.9	1746.5
7.5°	1749.2	1750.6	1748.5	1734.9	1727.4
10°	1730.2	1730.8	1725.4	1714.5	1705.7
12.5°	1705.7	1705.0	1697.5	1692.1	1677.8
15°	1666.9	1671.0	1666.9	1659.4	1647.8
17.5°	1629.5	1629.5	1632.2	1619.3	1610.4
20°	1587.3	1589.3	1589.3	1579.1	1568.9
22.5°	1538.3	1544.4	1546.5	1535.6	1523.3
25°	1480.5	1492.0	1498.8	1488.0	1475.0
27.5°	1410.4	1428.1	1448.5	1440.3	1426.0
30°	1332.1	1358.0	1392.0	1385.2	1375.0
32.5°	1258.0	1283.8	1330.8	1328.1	1322.6
35°	1190.6	1207.0	1262.1	1268.9	1264.1
37.5°	1126.7	1141.6	1193.4	1209.0	1204.9
40°	1059.3	1075.7	1116.5	1144.4	1145.7
42.5°	992.6	1008.3	1041.6	1081.8	1081.8
45°	921.9	937.5	968.2	1012.4	1017.8
47.5°	852.5	868.8	898.8	943.0	951.8
50°	784.5	799.4	829.4	872.2	885.8
52.5°	713.7	730.0	759.3	798.7	818.5
55°	645.7	656.5	688.5	726.6	747.7
57.5°	574.9	585.1	621.2	653.8	675.6
60°	506.9	519.8	547.7	581.0	606.2
62.5°	441.6	455.2	479.0	508.2	536.8
65°	378.3	388.5	411.6	440.9	466.0
67.5°	317.0	325.9	349.0	369.4	396.0
70°	255.1	266.7	283.7	303.4	320.5
72.5°	205.5	210.2	224.5	238.8	256.5
75°	151.7	159.9	171.5	179.6	189.8
77.5°	108.9	113.6	120.4	127.2	136.8
80°	72.8	74.8	81.0	82.3	89.8
82.5°	44.2	45.6	46.9	47.6	50.3
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)