

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: P554801

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-80-84-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: P554801
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-50-UNV-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

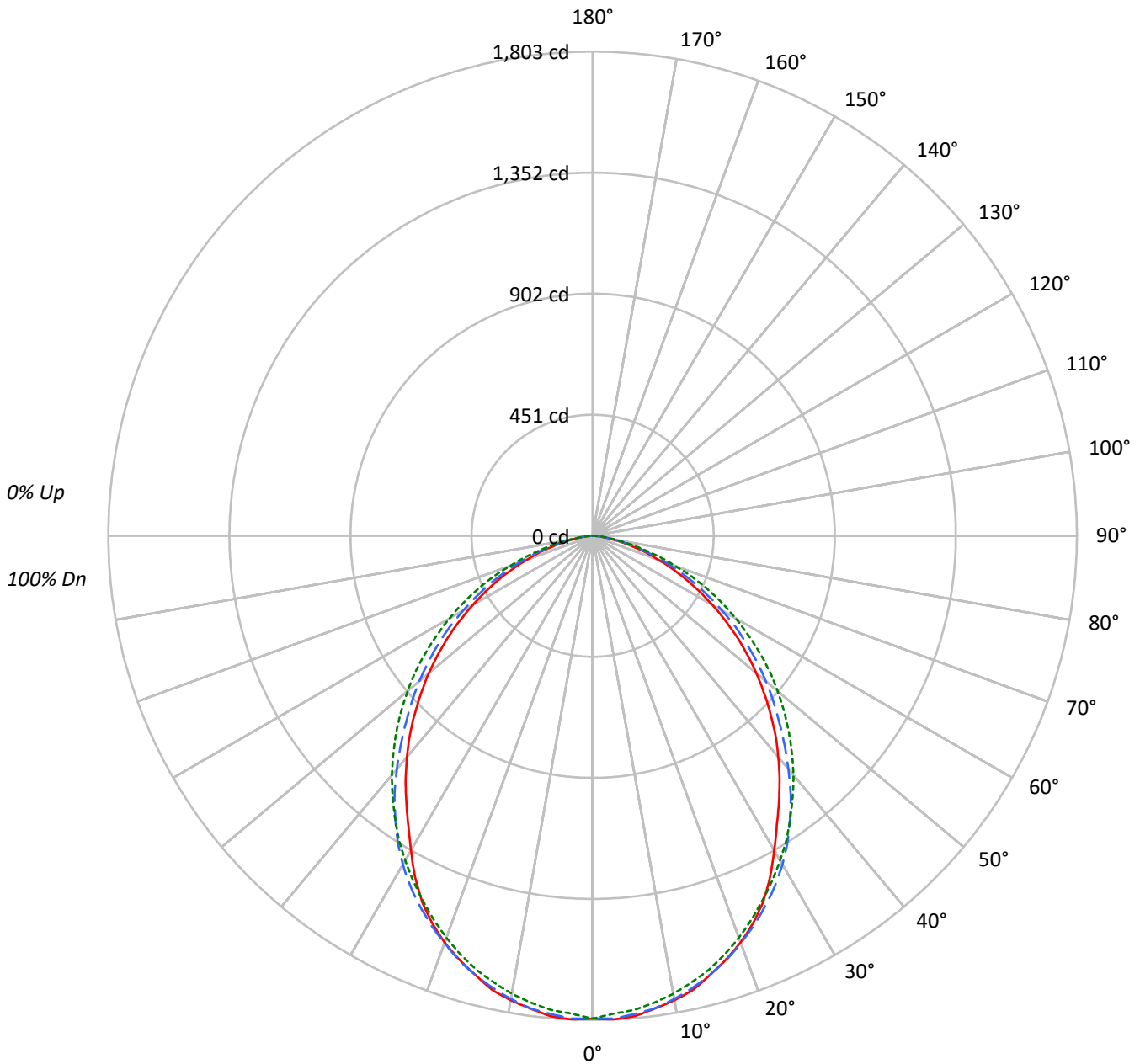
Lumens per Lamp: N/A
Luminaire Lumens: 4157.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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°	9676	9676	9676
5°	9701	9660	9578
10°	9599	9572	9463
15°	9428	9428	9321
20°	9228	9241	9122
25°	8925	9035	8892
30°	8404	8782	8674
35°	7941	8418	8431
40°	7555	7963	8172
45°	7123	7480	7864
50°	6667	7049	7529
55°	6150	6559	7122
60°	5538	5985	6624
65°	4890	5322	6025
70°	4076	4532	5119
75°	3202	3618	4007
80°	2290	2548	2827
85°	1494	1494	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	4.1
10°-20°	475.5	11.4
20°-30°	694.9	16.7
30°-40°	788.8	19.0
40°-50°	761.4	18.3
50°-60°	628.1	15.1
60°-70°	418.3	10.1
70°-80°	187.2	4.5
80°-90°	33.5	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°	1339.7	32.2
0°-40°	2128.5	51.2
0°-60°	3518.0	84.6
0°-90°	4157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1798	1798	1798	1798	1798	
5°	1796	1795	1788	1778	1773	170
15°	1692	1696	1692	1684	1673	477
25°	1503	1515	1522	1510	1497	688
35°	1209	1225	1281	1288	1283	757
45°	936	952	983	1028	1033	722
55°	655	666	699	738	759	585
65°	384	394	418	448	473	381
75°	154	162	174	182	193	168
85°	24	24	24	23	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1797.8	1797.8	1797.8	1797.8	1797.8
2.5°	1802.6	1803.3	1799.2	1788.1	1781.2
5°	1795.7	1795.0	1788.1	1778.5	1772.9
7.5°	1775.7	1777.1	1775.0	1761.2	1753.6
10°	1756.4	1757.0	1751.5	1740.5	1731.5
12.5°	1731.5	1730.8	1723.2	1717.7	1703.2
15°	1692.1	1696.3	1692.1	1684.5	1672.8
17.5°	1654.1	1654.1	1656.9	1643.8	1634.8
20°	1611.3	1613.4	1613.4	1603.0	1592.7
22.5°	1561.6	1567.8	1569.9	1558.8	1546.4
25°	1502.9	1514.6	1521.5	1510.5	1497.4
27.5°	1431.7	1449.7	1470.4	1462.1	1447.6
30°	1352.3	1378.6	1413.1	1406.2	1395.8
32.5°	1277.0	1303.3	1350.9	1348.2	1342.6
35°	1208.7	1225.2	1281.2	1288.1	1283.3
37.5°	1143.7	1158.9	1211.4	1227.3	1223.2
40°	1075.4	1091.9	1133.4	1161.7	1163.1
42.5°	1007.7	1023.6	1057.4	1098.2	1098.2
45°	935.8	951.7	982.8	1027.7	1033.2
47.5°	865.4	882.0	912.4	957.3	966.2
50°	796.3	811.5	841.9	885.4	899.2
52.5°	724.5	741.1	770.8	810.8	830.9
55°	655.4	666.5	699.0	737.6	759.0
57.5°	583.6	594.0	630.6	663.7	685.8
60°	514.5	527.7	556.0	589.8	615.4
62.5°	448.2	462.1	486.2	515.9	544.9
65°	384.0	394.4	417.9	447.5	473.1
67.5°	321.8	330.8	354.3	375.0	402.0
70°	259.0	270.7	288.0	308.0	325.3
72.5°	208.6	213.4	227.9	242.4	260.4
75°	154.0	162.3	174.0	182.3	192.7
77.5°	110.5	115.3	122.2	129.2	138.8
80°	73.9	76.0	82.2	83.6	91.2
82.5°	44.9	46.3	47.7	48.3	51.1
85°	24.2	24.2	24.2	22.8	22.8
87.5°	13.8	13.8	11.7	9.7	6.9
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)