

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: P557530

Luminaire Tested: **FUSL-12-4-LD4-2STD-35-UNV-82-94-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: P557530
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-12-4-LD4-2STD-35-UNV-82-94-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

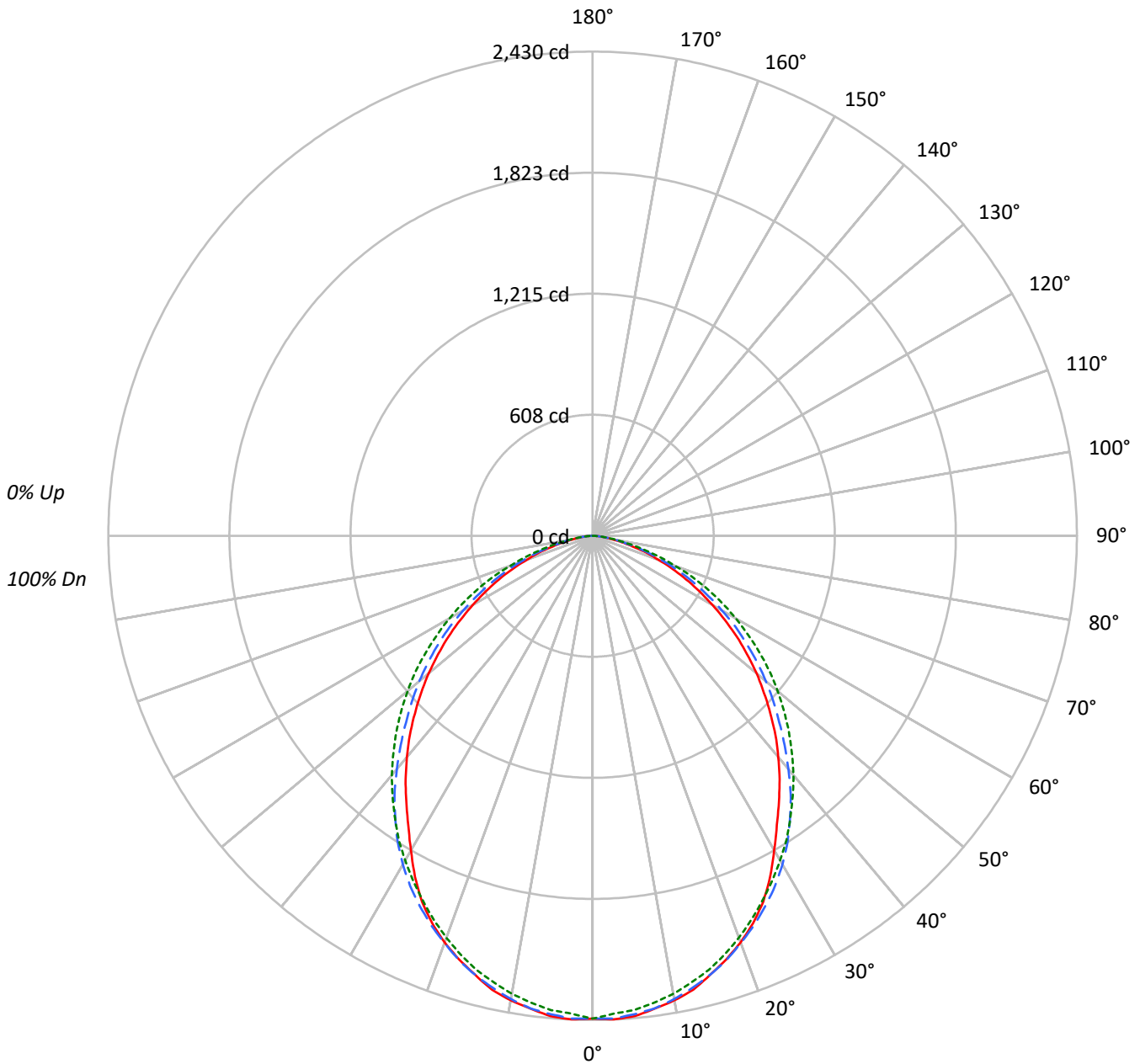
Lumens per Lamp: N/A
Luminaire Lumens: 5603.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	6521	6521	6521
5°	6538	6510	6455
10°	6469	6451	6377
15°	6354	6354	6281
20°	6219	6227	6147
25°	6015	6089	5992
30°	5664	5918	5846
35°	5352	5673	5682
40°	5091	5366	5507
45°	4800	5041	5300
50°	4493	4751	5074
55°	4145	4420	4800
60°	3732	4033	4464
65°	3296	3586	4060
70°	2747	3054	3450
75°	2158	2439	2700
80°	1543	1717	1905
85°	1007	1007	948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.1	4.1
10°-20°	640.9	11.4
20°-30°	936.6	16.7
30°-40°	1063.1	19.0
40°-50°	1026.3	18.3
50°-60°	846.6	15.1
60°-70°	563.8	10.1
70°-80°	252.3	4.5
80°-90°	45.1	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°	1805.7	32.2
0°-40°	2868.8	51.2
0°-60°	4741.8	84.6
0°-90°	5603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2423	2423	2423	2423	2423	
5°	2420	2419	2410	2397	2390	229
15°	2281	2286	2281	2270	2255	643
25°	2026	2042	2051	2036	2018	928
35°	1629	1651	1727	1736	1730	1021
45°	1261	1283	1325	1385	1393	973
55°	883	898	942	994	1023	788
65°	518	532	563	603	638	513
75°	208	219	235	246	260	227
85°	33	33	33	31	31	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2423.2	2423.2	2423.2	2423.2	2423.2
2.5°	2429.7	2430.6	2425.0	2410.1	2400.8
5°	2420.4	2419.4	2410.1	2397.1	2389.6
7.5°	2393.4	2395.2	2392.4	2373.8	2363.6
10°	2367.3	2368.2	2360.8	2345.9	2333.8
12.5°	2333.8	2332.9	2322.6	2315.2	2295.6
15°	2280.7	2286.3	2280.7	2270.5	2254.7
17.5°	2229.5	2229.5	2233.2	2215.6	2203.5
20°	2171.8	2174.6	2174.6	2160.6	2146.7
22.5°	2104.8	2113.2	2116.0	2101.1	2084.3
25°	2025.7	2041.5	2050.8	2035.9	2018.2
27.5°	1929.8	1954.0	1981.9	1970.7	1951.2
30°	1822.7	1858.1	1904.6	1895.3	1881.4
32.5°	1721.2	1756.6	1820.9	1817.1	1809.7
35°	1629.1	1651.4	1726.8	1736.1	1729.6
37.5°	1541.6	1562.1	1632.8	1654.2	1648.6
40°	1449.4	1471.8	1527.6	1565.8	1567.6
42.5°	1358.2	1379.6	1425.2	1480.1	1480.1
45°	1261.4	1282.8	1324.7	1385.2	1392.6
47.5°	1166.4	1188.8	1229.7	1290.2	1302.3
50°	1073.3	1093.8	1134.8	1193.4	1212.0
52.5°	976.5	998.9	1038.9	1092.9	1119.9
55°	883.4	898.3	942.1	994.2	1023.1
57.5°	786.6	800.6	849.9	894.6	924.4
60°	693.5	711.2	749.4	795.0	829.4
62.5°	604.2	622.8	655.4	695.4	734.5
65°	517.6	531.5	563.2	603.2	637.7
67.5°	433.8	445.9	477.6	505.5	541.8
70°	349.1	364.9	388.2	415.2	438.5
72.5°	281.1	287.7	307.2	326.7	351.0
75°	207.6	218.8	234.6	245.8	259.7
77.5°	148.9	155.5	164.8	174.1	187.1
80°	99.6	102.4	110.8	112.6	122.9
82.5°	60.5	62.4	64.2	65.2	68.9
85°	32.6	32.6	32.6	30.7	30.7
87.5°	18.6	18.6	15.8	13.0	9.3
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)