

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: P557561

Luminaire Tested: **FUSL-12-4-LD4-2STD-40-UNV-80-88-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: P557561
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-40-UNV-80-88-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

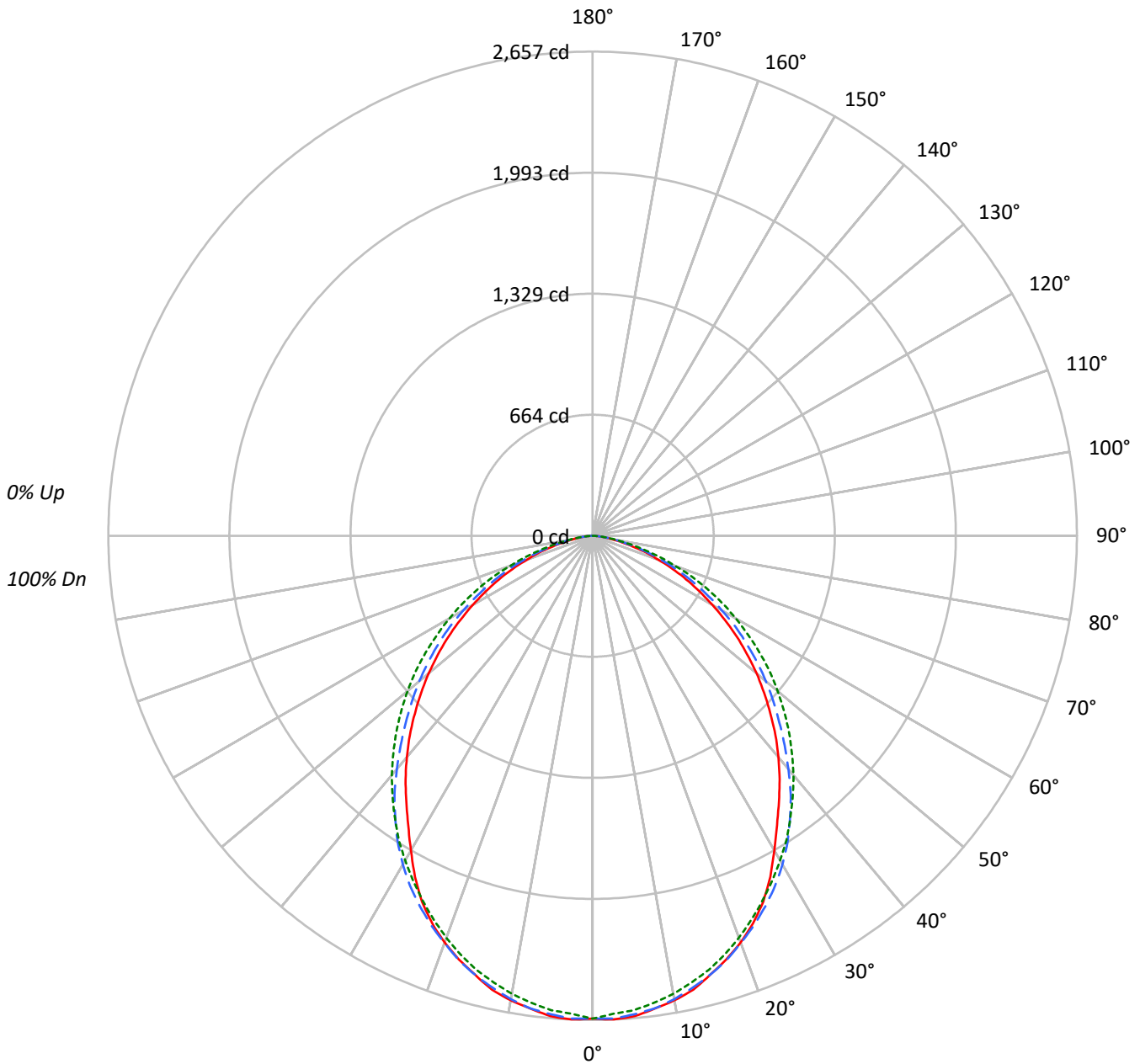
Lumens per Lamp: N/A
Luminaire Lumens: 6127.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (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°	7131	7131	7131
5°	7149	7119	7059
10°	7074	7054	6973
15°	6948	6948	6869
20°	6801	6810	6722
25°	6577	6659	6553
30°	6193	6472	6393
35°	5852	6203	6213
40°	5568	5868	6022
45°	5249	5513	5796
50°	4914	5195	5549
55°	4533	4833	5248
60°	4082	4411	4881
65°	3604	3922	4440
70°	3003	3340	3773
75°	2360	2667	2953
80°	1688	1877	2083
85°	1099	1099	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.5	4.1
10°-20°	700.9	11.4
20°-30°	1024.2	16.7
30°-40°	1162.6	19.0
40°-50°	1122.3	18.3
50°-60°	925.8	15.1
60°-70°	616.5	10.1
70°-80°	275.9	4.5
80°-90°	49.4	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°	1974.6	32.2
0°-40°	3137.1	51.2
0°-60°	5185.2	84.6
0°-90°	6127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2650	2650	2650	2650	2650	
5°	2647	2646	2636	2621	2613	251
15°	2494	2500	2494	2483	2466	703
25°	2215	2232	2243	2226	2207	1014
35°	1781	1806	1888	1898	1891	1116
45°	1379	1403	1449	1515	1523	1064
55°	966	982	1030	1087	1119	862
65°	566	581	616	660	697	561
75°	227	239	256	269	284	248
85°	36	36	36	34	34	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2649.8	2649.8	2649.8	2649.8	2649.8
2.5°	2656.9	2657.9	2651.8	2635.5	2625.3
5°	2646.7	2645.7	2635.5	2621.3	2613.1
7.5°	2617.2	2619.2	2616.2	2595.8	2584.6
10°	2588.7	2589.7	2581.6	2565.3	2552.0
12.5°	2552.0	2551.0	2539.8	2531.7	2510.3
15°	2494.0	2500.1	2494.0	2482.8	2465.5
17.5°	2438.0	2438.0	2442.1	2422.8	2409.5
20°	2374.9	2378.0	2378.0	2362.7	2347.4
22.5°	2301.6	2310.8	2313.8	2297.6	2279.2
25°	2215.1	2232.4	2242.6	2226.3	2207.0
27.5°	2110.2	2136.7	2167.3	2155.0	2133.7
30°	1993.2	2031.9	2082.8	2072.6	2057.3
32.5°	1882.2	1920.9	1991.1	1987.1	1978.9
35°	1781.4	1805.9	1888.3	1898.5	1891.4
37.5°	1685.8	1708.1	1785.5	1808.9	1802.8
40°	1585.0	1609.4	1670.5	1712.2	1714.3
42.5°	1485.2	1508.6	1558.5	1618.6	1618.6
45°	1379.3	1402.8	1448.6	1514.7	1522.9
47.5°	1275.5	1299.9	1344.7	1410.9	1424.1
50°	1173.7	1196.1	1240.9	1305.0	1325.4
52.5°	1067.8	1092.3	1136.1	1195.1	1224.6
55°	966.1	982.3	1030.2	1087.2	1118.7
57.5°	860.2	875.5	929.4	978.3	1010.8
60°	758.4	777.7	819.5	869.3	907.0
62.5°	660.7	681.0	716.6	760.4	803.2
65°	566.0	581.3	615.9	659.6	697.3
67.5°	474.4	487.6	522.2	552.8	592.5
70°	381.7	399.0	424.5	454.0	479.5
72.5°	307.4	314.6	335.9	357.3	383.8
75°	227.0	239.2	256.5	268.7	284.0
77.5°	162.9	170.0	180.2	190.4	204.6
80°	108.9	112.0	121.1	123.2	134.4
82.5°	66.2	68.2	70.2	71.3	75.3
85°	35.6	35.6	35.6	33.6	33.6
87.5°	20.4	20.4	17.3	14.3	10.2
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)