

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: P557622

Luminaire Tested: **FUSL-12-4-LD4-2STD-50-UNV-80-87-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: P557622
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-50-UNV-80-87-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

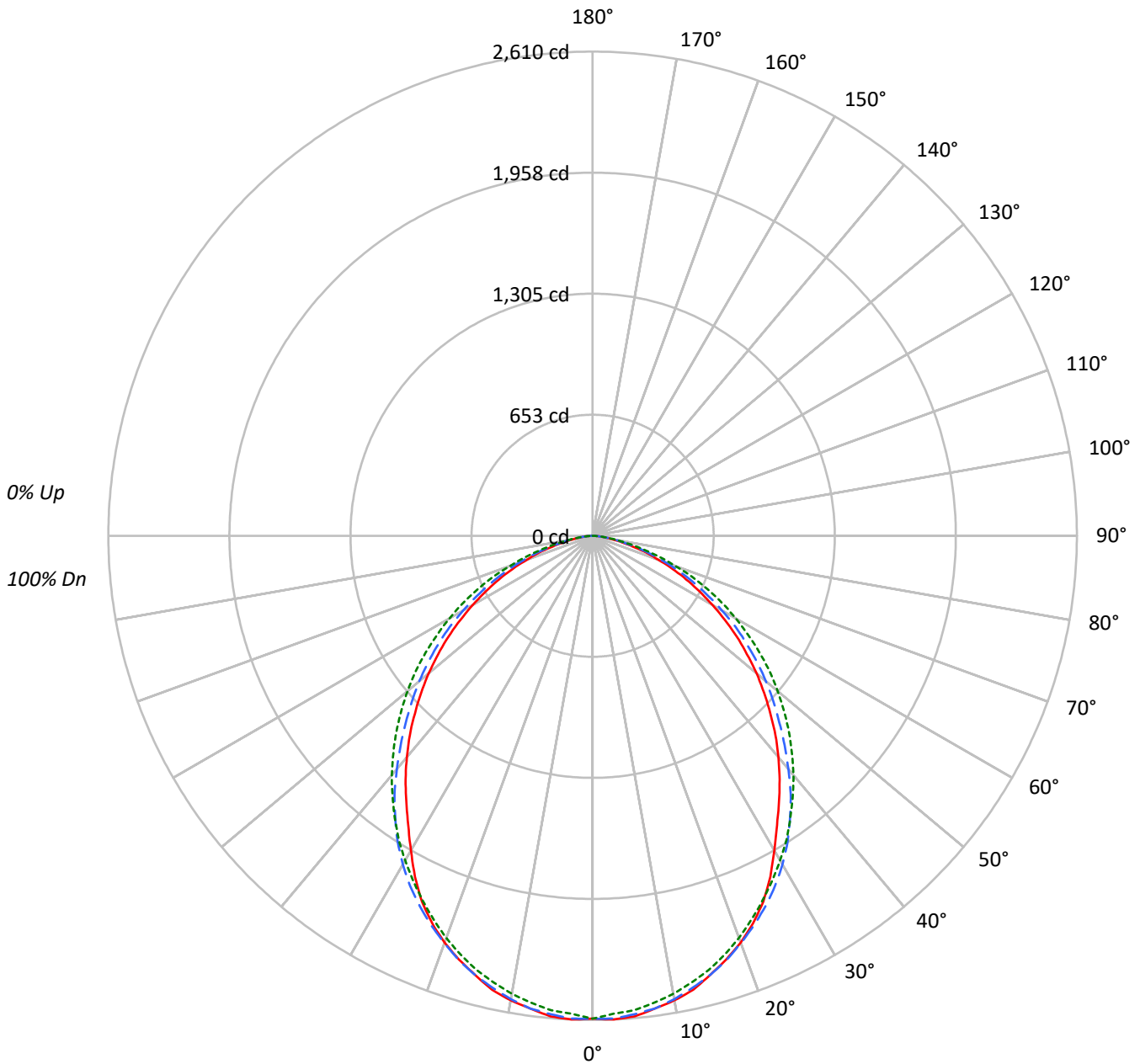
Lumens per Lamp: N/A
Luminaire Lumens: 6018.9 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	7005	7005	7005
5°	7024	6994	6934
10°	6949	6930	6851
15°	6826	6826	6748
20°	6681	6690	6604
25°	6461	6541	6437
30°	6084	6357	6280
35°	5749	6094	6104
40°	5469	5765	5916
45°	5157	5415	5693
50°	4827	5103	5451
55°	4452	4748	5156
60°	4010	4332	4795
65°	3540	3852	4362
70°	2950	3281	3706
75°	2319	2620	2901
80°	1658	1844	2046
85°	1081	1081	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.1	4.1
10°-20°	688.5	11.4
20°-30°	1006.2	16.7
30°-40°	1142.1	19.0
40°-50°	1102.5	18.3
50°-60°	909.5	15.1
60°-70°	605.6	10.1
70°-80°	271.0	4.5
80°-90°	48.5	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°	1939.8	32.2
0°-40°	3081.8	51.2
0°-60°	5093.8	84.6
0°-90°	6018.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6018.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2603	2603	2603	2603	2603	
5°	2600	2599	2589	2575	2567	246
15°	2450	2456	2450	2439	2422	691
25°	2176	2193	2203	2187	2168	997
35°	1750	1774	1855	1865	1858	1096
45°	1355	1378	1423	1488	1496	1045
55°	949	965	1012	1068	1099	847
65°	556	571	605	648	685	551
75°	223	235	252	264	279	244
85°	35	35	35	33	33	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2603.1	2603.1	2603.1	2603.1	2603.1
2.5°	2610.1	2611.1	2605.1	2589.1	2579.1
5°	2600.1	2599.1	2589.1	2575.1	2567.1
7.5°	2571.1	2573.1	2570.1	2550.1	2539.1
10°	2543.1	2544.1	2536.1	2520.1	2507.1
12.5°	2507.1	2506.1	2495.1	2487.1	2466.1
15°	2450.1	2456.1	2450.1	2439.1	2422.1
17.5°	2395.1	2395.1	2399.1	2380.1	2367.1
20°	2333.1	2336.1	2336.1	2321.1	2306.1
22.5°	2261.1	2270.1	2273.1	2257.1	2239.1
25°	2176.1	2193.1	2203.1	2187.1	2168.1
27.5°	2073.0	2099.1	2129.1	2117.1	2096.0
30°	1958.0	1996.0	2046.0	2036.0	2021.0
32.5°	1849.0	1887.0	1956.0	1952.0	1944.0
35°	1750.0	1774.0	1855.0	1865.0	1858.0
37.5°	1656.0	1678.0	1754.0	1777.0	1771.0
40°	1557.0	1581.0	1641.0	1682.0	1684.0
42.5°	1459.0	1482.0	1531.0	1590.0	1590.0
45°	1355.0	1378.0	1423.0	1488.0	1496.0
47.5°	1253.0	1277.0	1321.0	1386.0	1399.0
50°	1153.0	1175.0	1219.0	1282.0	1302.0
52.5°	1049.0	1073.0	1116.0	1174.0	1203.0
55°	949.0	965.0	1012.0	1068.0	1099.0
57.5°	845.0	860.0	913.0	961.0	993.0
60°	745.0	764.0	805.0	854.0	891.0
62.5°	649.0	669.0	704.0	747.0	789.0
65°	556.0	571.0	605.0	648.0	685.0
67.5°	466.0	479.0	513.0	543.0	582.0
70°	375.0	392.0	417.0	446.0	471.0
72.5°	302.0	309.0	330.0	351.0	377.0
75°	223.0	235.0	252.0	264.0	279.0
77.5°	160.0	167.0	177.0	187.0	201.0
80°	107.0	110.0	119.0	121.0	132.0
82.5°	65.0	67.0	69.0	70.0	74.0
85°	35.0	35.0	35.0	33.0	33.0
87.5°	20.0	20.0	17.0	14.0	10.0
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)