

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: P557675

Luminaire Tested: **FUSL-12-4-LD4-2STD-50-UNV-93-94-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: P557675
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-93-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

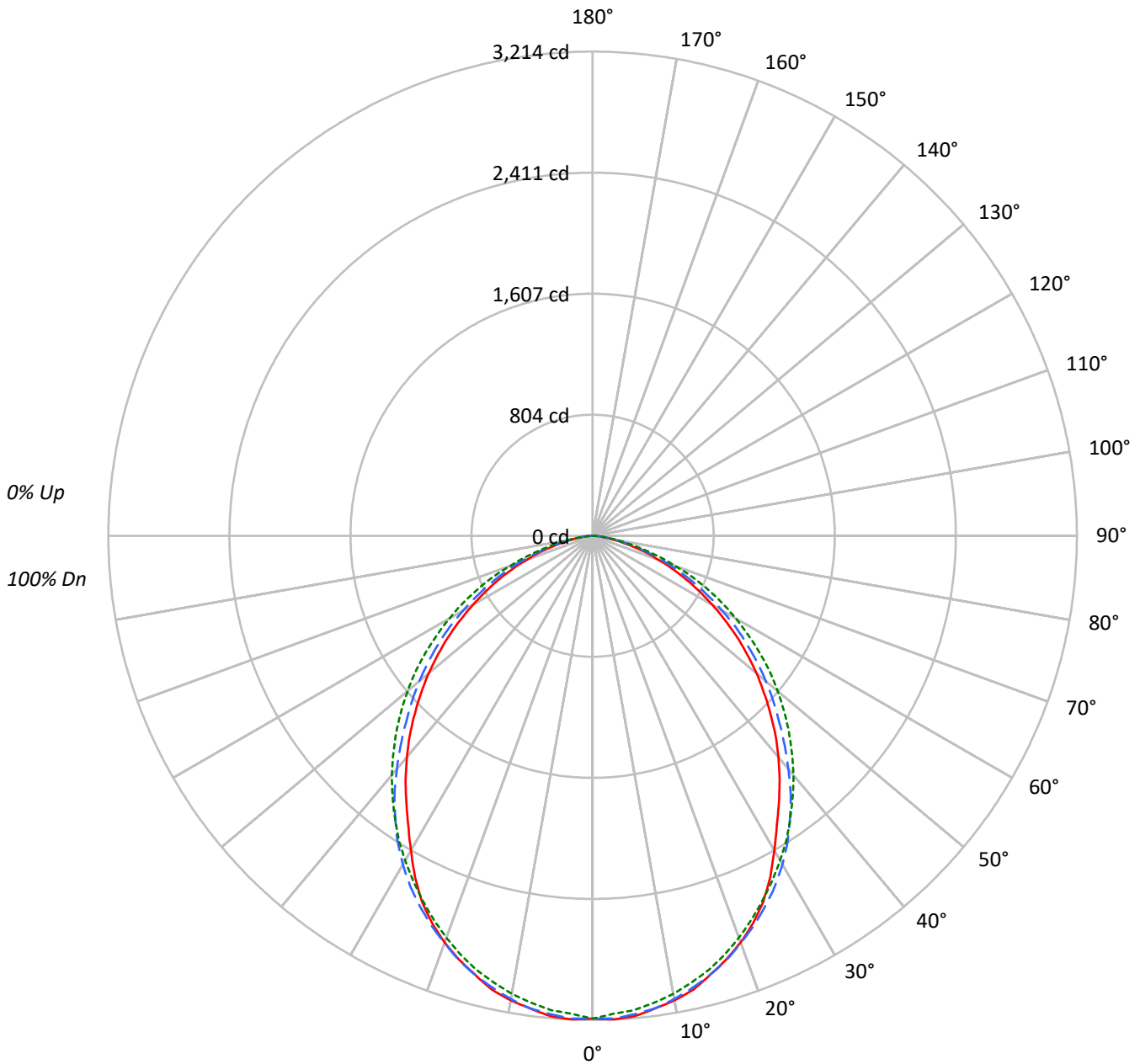
Lumens per Lamp: N/A
Luminaire Lumens: 7411.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	8625	8625	8625
5°	8648	8611	8538
10°	8556	8532	8435
15°	8404	8404	8308
20°	8226	8237	8131
25°	7955	8054	7926
30°	7491	7828	7732
35°	7079	7503	7515
40°	6734	7098	7284
45°	6349	6668	7010
50°	5943	6284	6711
55°	5482	5846	6349
60°	4937	5335	5905
65°	4359	4743	5370
70°	3633	4040	4563
75°	2855	3226	3571
80°	2041	2270	2518
85°	1331	1331	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.8	4.1
10°-20°	847.7	11.4
20°-30°	1238.8	16.7
30°-40°	1406.2	19.0
40°-50°	1357.5	18.3
50°-60°	1119.8	15.1
60°-70°	745.7	10.1
70°-80°	333.7	4.5
80°-90°	59.7	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°	2388.3	32.2
0°-40°	3794.6	51.2
0°-60°	6271.9	84.6
0°-90°	7411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3205	3205	3205	3205	3205	
5°	3201	3200	3188	3171	3161	303
15°	3017	3024	3017	3003	2982	850
25°	2679	2700	2712	2693	2670	1227
35°	2155	2184	2284	2296	2288	1350
45°	1668	1697	1752	1832	1842	1287
55°	1168	1188	1246	1315	1353	1043
65°	685	703	745	798	843	679
75°	275	289	310	325	344	300
85°	43	43	43	41	41	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3205.1	3205.1	3205.1	3205.1	3205.1
2.5°	3213.7	3214.9	3207.5	3187.8	3175.5
5°	3201.4	3200.1	3187.8	3170.6	3160.7
7.5°	3165.7	3168.1	3164.4	3139.8	3126.3
10°	3131.2	3132.4	3122.6	3102.9	3086.9
12.5°	3086.9	3085.6	3072.1	3062.2	3036.4
15°	3016.7	3024.1	3016.7	3003.1	2982.2
17.5°	2949.0	2949.0	2953.9	2930.5	2914.5
20°	2872.6	2876.3	2876.3	2857.8	2839.4
22.5°	2784.0	2795.0	2798.7	2779.0	2756.9
25°	2679.3	2700.2	2712.5	2692.8	2669.5
27.5°	2552.5	2584.5	2621.4	2606.7	2580.8
30°	2410.9	2457.7	2519.2	2506.9	2488.5
32.5°	2276.7	2323.5	2408.4	2403.5	2393.6
35°	2154.8	2184.3	2284.1	2296.4	2287.7
37.5°	2039.0	2066.1	2159.7	2188.0	2180.6
40°	1917.1	1946.7	2020.6	2071.0	2073.5
42.5°	1796.5	1824.8	1885.1	1957.8	1957.8
45°	1668.4	1696.7	1752.1	1832.2	1842.0
47.5°	1542.8	1572.4	1626.5	1706.6	1722.6
50°	1419.7	1446.8	1501.0	1578.5	1603.1
52.5°	1291.6	1321.2	1374.1	1445.5	1481.3
55°	1168.5	1188.2	1246.1	1315.0	1353.2
57.5°	1040.4	1058.9	1124.2	1183.3	1222.7
60°	917.3	940.7	991.2	1051.5	1097.1
62.5°	799.1	823.7	866.8	919.8	971.5
65°	684.6	703.1	744.9	797.9	843.4
67.5°	573.8	589.8	631.7	668.6	716.6
70°	461.7	482.7	513.5	549.2	579.9
72.5°	371.9	380.5	406.3	432.2	464.2
75°	274.6	289.4	310.3	325.1	343.5
77.5°	197.0	205.6	217.9	230.3	247.5
80°	131.7	135.4	146.5	149.0	162.5
82.5°	80.0	82.5	85.0	86.2	91.1
85°	43.1	43.1	43.1	40.6	40.6
87.5°	24.6	24.6	20.9	17.2	12.3
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)