

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: P557425

Luminaire Tested: **FUSL-12-4-LD4-2STD-30-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: P557425
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-30-UNV-80-84-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

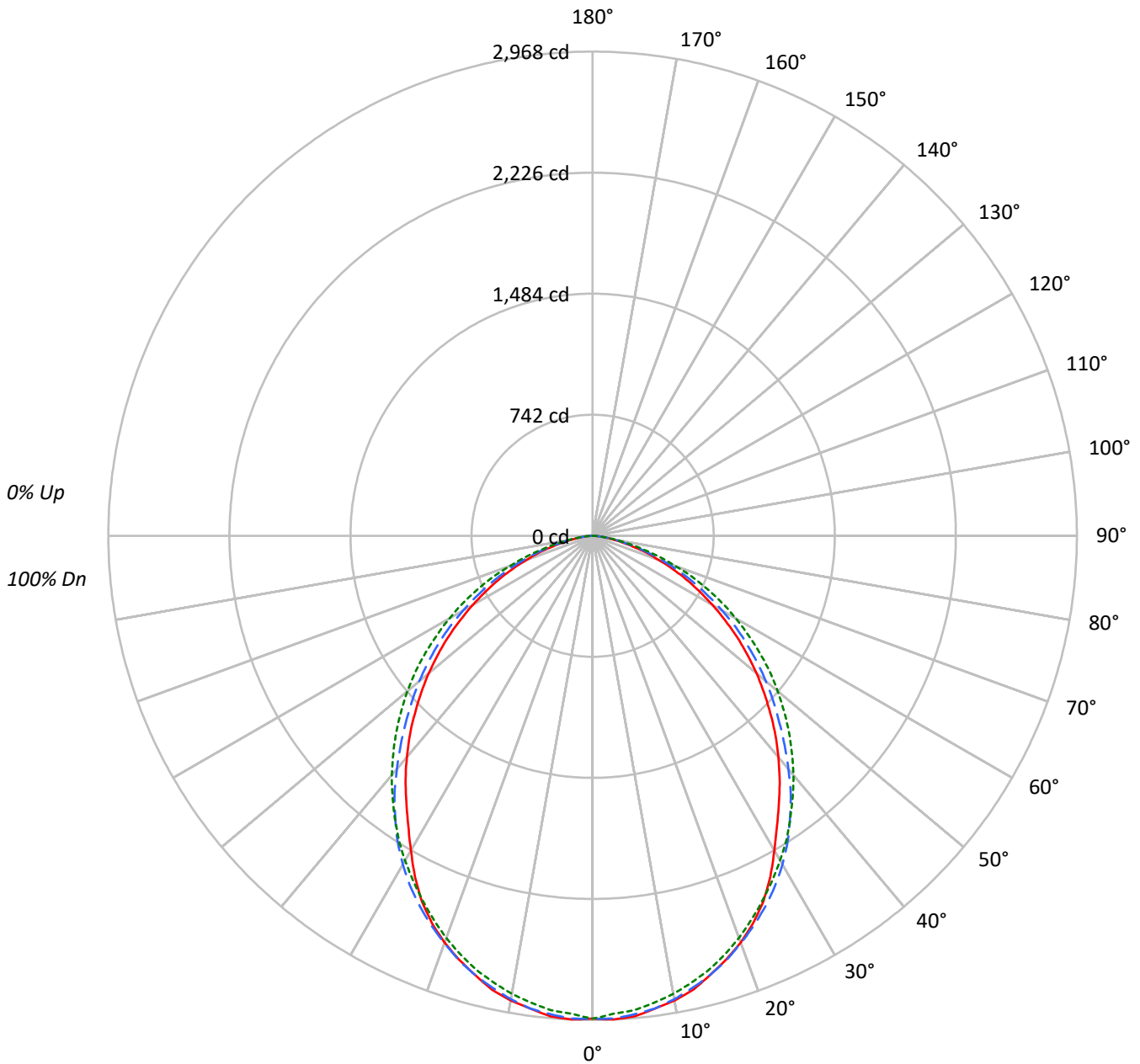
Lumens per Lamp: N/A
Luminaire Lumens: 6845.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	7966	7966	7966
5°	7987	7954	7886
10°	7903	7881	7791
15°	7762	7762	7674
20°	7598	7608	7510
25°	7348	7439	7321
30°	6919	7230	7142
35°	6538	6930	6941
40°	6220	6556	6727
45°	5864	6159	6474
50°	5490	5804	6199
55°	5064	5400	5864
60°	4560	4927	5454
65°	4026	4381	4960
70°	3356	3731	4214
75°	2637	2980	3299
80°	1886	2097	2326
85°	1229	1229	1158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.7	4.1
10°-20°	783.0	11.4
20°-30°	1144.2	16.7
30°-40°	1298.8	19.0
40°-50°	1253.8	18.3
50°-60°	1034.3	15.1
60°-70°	688.7	10.1
70°-80°	308.2	4.5
80°-90°	55.1	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°	2205.9	32.2
0°-40°	3504.8	51.2
0°-60°	5792.9	84.6
0°-90°	6845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2960	2960	2960	2960	2960	
5°	2957	2956	2944	2928	2919	280
15°	2786	2793	2786	2774	2754	785
25°	2475	2494	2505	2487	2466	1133
35°	1990	2018	2110	2121	2113	1247
45°	1541	1567	1618	1692	1701	1189
55°	1079	1098	1151	1215	1250	963
65°	632	649	688	737	779	627
75°	254	267	287	300	317	277
85°	40	40	40	38	38	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2960.3	2960.3	2960.3	2960.3	2960.3
2.5°	2968.2	2969.4	2962.6	2944.4	2933.0
5°	2956.9	2955.7	2944.4	2928.4	2919.3
7.5°	2923.9	2926.2	2922.8	2900.0	2887.5
10°	2892.1	2893.2	2884.1	2865.9	2851.1
12.5°	2851.1	2850.0	2837.5	2828.4	2804.5
15°	2786.3	2793.1	2786.3	2773.8	2754.4
17.5°	2723.7	2723.7	2728.3	2706.7	2691.9
20°	2653.2	2656.6	2656.6	2639.6	2622.5
22.5°	2571.3	2581.6	2585.0	2566.8	2546.3
25°	2474.7	2494.0	2505.4	2487.2	2465.6
27.5°	2357.5	2387.1	2421.2	2407.6	2383.7
30°	2226.8	2270.0	2326.8	2315.5	2298.4
32.5°	2102.8	2146.0	2224.5	2219.9	2210.8
35°	1990.2	2017.5	2109.6	2121.0	2113.0
37.5°	1883.3	1908.3	1994.8	2020.9	2014.1
40°	1770.7	1798.0	1866.2	1912.9	1915.1
42.5°	1659.3	1685.4	1741.1	1808.2	1808.2
45°	1541.0	1567.1	1618.3	1692.2	1701.3
47.5°	1425.0	1452.3	1502.3	1576.2	1591.0
50°	1311.3	1336.3	1386.3	1458.0	1480.7
52.5°	1193.0	1220.3	1269.2	1335.1	1368.1
55°	1079.3	1097.5	1150.9	1214.6	1249.8
57.5°	961.0	978.0	1038.3	1092.9	1129.3
60°	847.3	868.9	915.5	971.2	1013.3
62.5°	738.1	760.8	800.6	849.5	897.3
65°	632.3	649.4	688.0	736.9	779.0
67.5°	530.0	544.7	583.4	617.5	661.9
70°	426.5	445.8	474.2	507.2	535.6
72.5°	343.5	351.4	375.3	399.2	428.7
75°	253.6	267.3	286.6	300.2	317.3
77.5°	182.0	189.9	201.3	212.7	228.6
80°	121.7	125.1	135.3	137.6	150.1
82.5°	73.9	76.2	78.5	79.6	84.2
85°	39.8	39.8	39.8	37.5	37.5
87.5°	22.7	22.7	19.3	15.9	11.4
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)