

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: P558134

Luminaire Tested: **FUSL-12-4-LD4-3LO-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: P558134
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-LD4-3LO-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

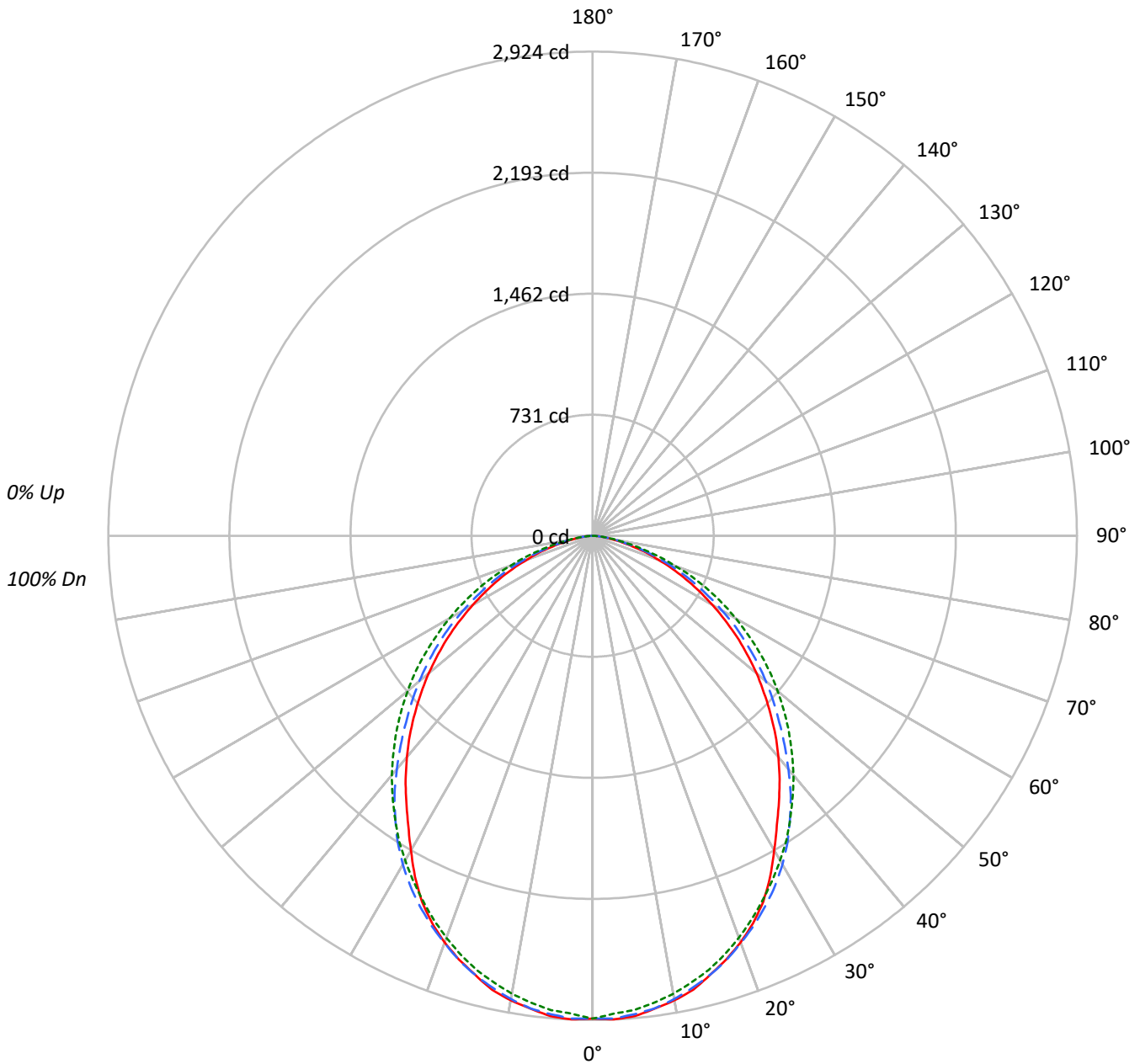
Lumens per Lamp: N/A
Luminaire Lumens: 6742.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	7846	7846	7846
5°	7867	7834	7767
10°	7784	7762	7673
15°	7646	7646	7558
20°	7484	7493	7397
25°	7237	7327	7211
30°	6815	7121	7034
35°	6440	6826	6837
40°	6127	6457	6626
45°	5776	6066	6377
50°	5407	5717	6105
55°	4987	5318	5775
60°	4491	4853	5372
65°	3966	4315	4886
70°	3305	3675	4151
75°	2597	2935	3249
80°	1858	2066	2292
85°	1210	1210	1142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.5	4.1
10°-20°	771.2	11.4
20°-30°	1127.0	16.7
30°-40°	1279.3	19.0
40°-50°	1234.9	18.3
50°-60°	1018.7	15.1
60°-70°	678.4	10.1
70°-80°	303.6	4.5
80°-90°	54.3	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°	2172.8	32.2
0°-40°	3452.0	51.2
0°-60°	5705.7	84.6
0°-90°	6742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2916	2916	2916	2916	2916	
5°	2912	2911	2900	2884	2875	276
15°	2744	2751	2744	2732	2713	774
25°	2437	2456	2468	2450	2428	1116
35°	1960	1987	2078	2089	2081	1228
45°	1518	1544	1594	1667	1676	1171
55°	1063	1081	1134	1196	1231	949
65°	623	640	678	726	767	618
75°	250	263	282	296	312	273
85°	39	39	39	37	37	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2915.7	2915.7	2915.7	2915.7	2915.7
2.5°	2923.6	2924.7	2918.0	2900.1	2888.9
5°	2912.4	2911.3	2900.1	2884.4	2875.4
7.5°	2879.9	2882.1	2878.8	2856.4	2844.1
10°	2848.5	2849.7	2840.7	2822.8	2808.2
12.5°	2808.2	2807.1	2794.8	2785.8	2762.3
15°	2744.4	2751.1	2744.4	2732.0	2713.0
17.5°	2682.8	2682.8	2687.2	2665.9	2651.4
20°	2613.3	2616.7	2616.7	2599.9	2583.1
22.5°	2532.7	2542.7	2546.1	2528.2	2508.0
25°	2437.4	2456.5	2467.7	2449.8	2428.5
27.5°	2322.1	2351.2	2384.8	2371.3	2347.8
30°	2193.2	2235.8	2291.8	2280.6	2263.8
32.5°	2071.2	2113.7	2191.0	2186.5	2177.6
35°	1960.3	1987.1	2077.9	2089.1	2081.2
37.5°	1855.0	1879.6	1964.7	1990.5	1983.8
40°	1744.1	1771.0	1838.2	1884.1	1886.3
42.5°	1634.3	1660.1	1714.9	1781.0	1781.0
45°	1517.8	1543.6	1594.0	1666.8	1675.7
47.5°	1403.5	1430.4	1479.7	1552.5	1567.1
50°	1291.5	1316.2	1365.5	1436.0	1458.4
52.5°	1175.0	1201.9	1250.1	1315.1	1347.5
55°	1063.0	1080.9	1133.6	1196.3	1231.0
57.5°	946.5	963.3	1022.7	1076.5	1112.3
60°	834.5	855.8	901.7	956.6	998.1
62.5°	727.0	749.4	788.6	836.7	883.8
65°	622.8	639.6	677.7	725.9	767.3
67.5°	522.0	536.6	574.6	608.2	651.9
70°	420.1	439.1	467.1	499.6	527.6
72.5°	338.3	346.1	369.6	393.2	422.3
75°	249.8	263.2	282.3	295.7	312.5
77.5°	179.2	187.1	198.3	209.5	225.1
80°	119.9	123.2	133.3	135.5	147.9
82.5°	72.8	75.0	77.3	78.4	82.9
85°	39.2	39.2	39.2	37.0	37.0
87.5°	22.4	22.4	19.0	15.7	11.2
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)