

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: P557946

Luminaire Tested: **FUSL-12-4-LD4-3LO-30-UNV-80-94-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: P557946
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-30-UNV-80-94-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

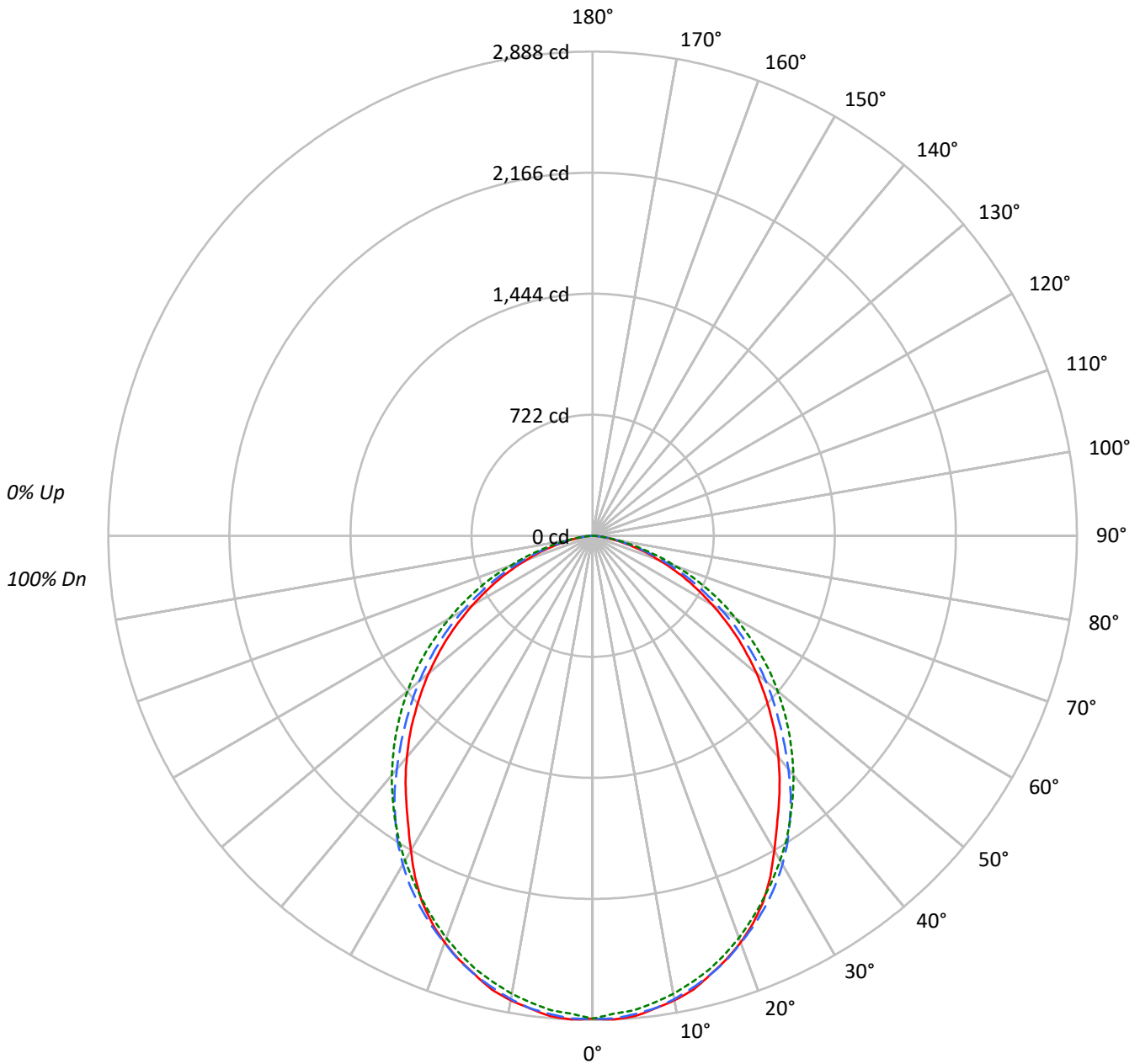
Lumens per Lamp: N/A
Luminaire Lumens: 6660.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
Input Voltage (V): NR
Input Current (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°	7751	7751	7751
5°	7772	7739	7673
10°	7689	7668	7580
15°	7553	7553	7466
20°	7393	7402	7307
25°	7149	7238	7123
30°	6732	7035	6949
35°	6361	6743	6754
40°	6052	6379	6546
45°	5706	5992	6300
50°	5341	5647	6031
55°	4927	5254	5705
60°	4437	4794	5306
65°	3917	4262	4826
70°	3264	3630	4101
75°	2566	2899	3210
80°	1835	2041	2264
85°	1195	1195	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.2	4.1
10°-20°	761.8	11.4
20°-30°	1113.3	16.7
30°-40°	1263.7	19.0
40°-50°	1219.9	18.3
50°-60°	1006.4	15.1
60°-70°	670.1	10.1
70°-80°	299.9	4.5
80°-90°	53.6	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°	2146.3	32.2
0°-40°	3410.0	51.2
0°-60°	5636.3	84.6
0°-90°	6660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2880	2880	2880	2880	2880	
5°	2877	2876	2865	2849	2840	272
15°	2711	2718	2711	2699	2680	764
25°	2408	2427	2438	2420	2399	1103
35°	1936	1963	2053	2064	2056	1213
45°	1499	1525	1575	1646	1655	1157
55°	1050	1068	1120	1182	1216	937
65°	615	632	669	717	758	610
75°	247	260	279	292	309	270
85°	39	39	39	36	36	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2880.3	2880.3	2880.3	2880.3	2880.3
2.5°	2888.0	2889.1	2882.5	2864.8	2853.7
5°	2877.0	2875.9	2864.8	2849.3	2840.4
7.5°	2844.9	2847.1	2843.8	2821.6	2809.5
10°	2813.9	2815.0	2806.1	2788.4	2774.1
12.5°	2774.1	2772.9	2760.8	2751.9	2728.7
15°	2711.0	2717.6	2711.0	2698.8	2680.0
17.5°	2650.1	2650.1	2654.5	2633.5	2619.1
20°	2581.5	2584.8	2584.8	2568.2	2551.6
22.5°	2501.8	2511.8	2515.1	2497.4	2477.5
25°	2407.8	2426.6	2437.7	2420.0	2398.9
27.5°	2293.8	2322.6	2355.8	2342.5	2319.3
30°	2166.6	2208.6	2263.9	2252.9	2236.3
32.5°	2046.0	2088.0	2164.4	2159.9	2151.1
35°	1936.4	1963.0	2052.6	2063.7	2055.9
37.5°	1832.4	1856.7	1940.8	1966.3	1959.7
40°	1722.9	1749.4	1815.8	1861.2	1863.4
42.5°	1614.4	1639.9	1694.1	1759.4	1759.4
45°	1499.3	1524.8	1574.6	1646.5	1655.4
47.5°	1386.5	1413.0	1461.7	1533.6	1548.0
50°	1275.8	1300.2	1348.9	1418.6	1440.7
52.5°	1160.7	1187.3	1234.9	1299.1	1331.1
55°	1050.1	1067.8	1119.8	1181.8	1216.1
57.5°	935.0	951.6	1010.3	1063.4	1098.8
60°	824.4	845.4	890.8	945.0	985.9
62.5°	718.1	740.3	779.0	826.6	873.0
65°	615.2	631.8	669.4	717.0	758.0
67.5°	515.6	530.0	567.6	600.8	644.0
70°	414.9	433.8	461.4	493.5	521.2
72.5°	334.2	341.9	365.2	388.4	417.2
75°	246.8	260.0	278.8	292.1	308.7
77.5°	177.0	184.8	195.9	206.9	222.4
80°	118.4	121.7	131.7	133.9	146.1
82.5°	71.9	74.1	76.4	77.5	81.9
85°	38.7	38.7	38.7	36.5	36.5
87.5°	22.1	22.1	18.8	15.5	11.1
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)