

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: P557437

Luminaire Tested: **FUSL-12-4-LD4-2STD-30-UNV-80-96-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: P557437
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-80-96-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

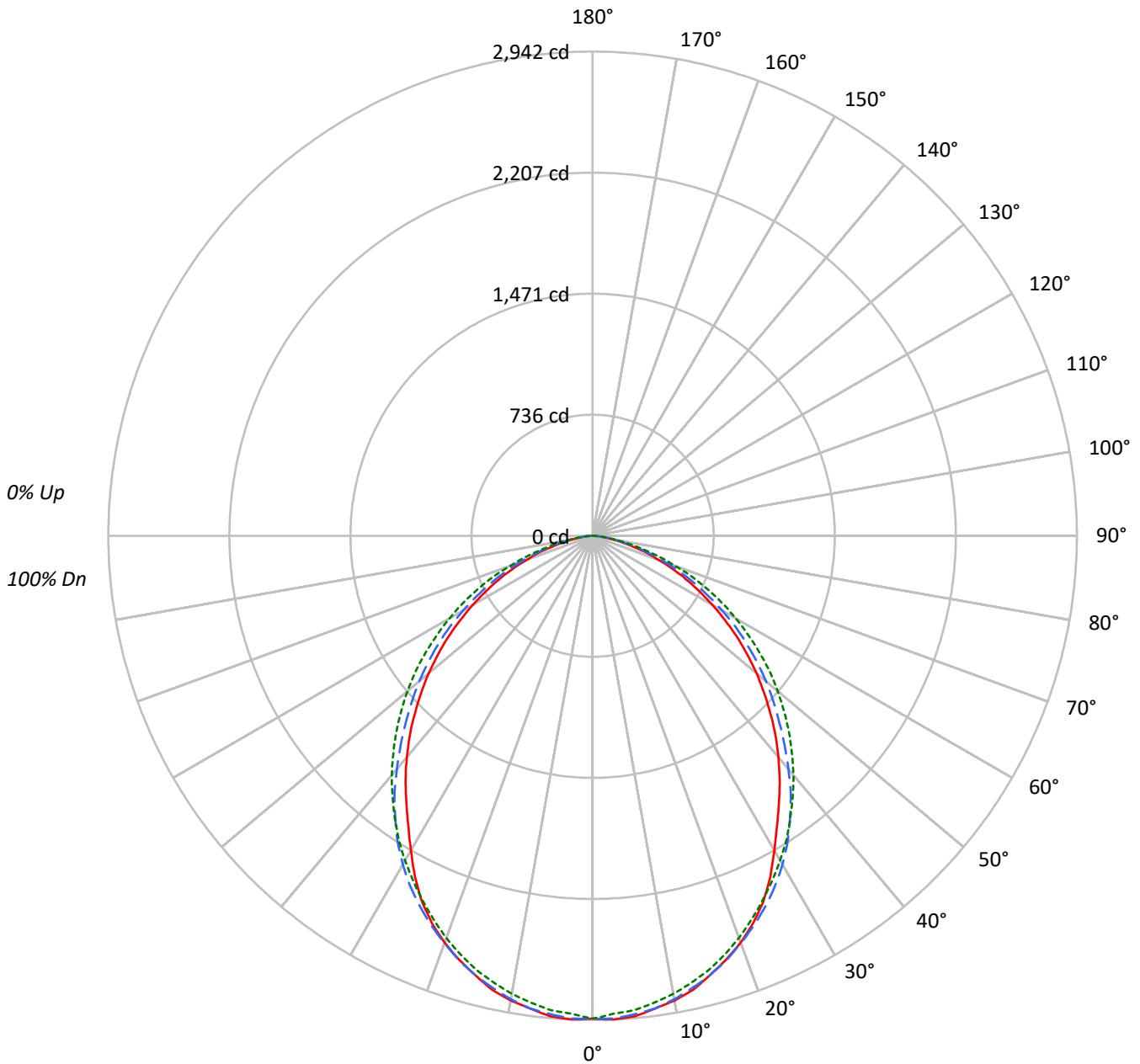
Lumens per Lamp: N/A
Luminaire Lumens: 6785.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					20					
RC	80					70					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°	7896	7896	7896
5°	7917	7884	7817
10°	7833	7812	7722
15°	7694	7694	7606
20°	7531	7541	7444
25°	7283	7374	7257
30°	6858	7167	7079
35°	6481	6869	6881
40°	6166	6498	6669
45°	5813	6105	6418
50°	5442	5753	6144
55°	5019	5352	5812
60°	4520	4884	5406
65°	3991	4343	4917
70°	3326	3699	4178
75°	2614	2954	3270
80°	1869	2078	2306
85°	1220	1220	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.3	4.1
10°-20°	776.1	11.4
20°-30°	1134.2	16.7
30°-40°	1287.4	19.0
40°-50°	1242.8	18.3
50°-60°	1025.2	15.1
60°-70°	682.7	10.1
70°-80°	305.5	4.5
80°-90°	54.7	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°	2186.6	32.2
0°-40°	3474.1	51.2
0°-60°	5742.1	84.6
0°-90°	6785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2934	2934	2934	2934	2934	
5°	2931	2930	2919	2903	2894	277
15°	2762	2769	2762	2750	2730	779
25°	2453	2472	2483	2465	2444	1123
35°	1973	2000	2091	2102	2094	1236
45°	1528	1553	1604	1677	1686	1179
55°	1070	1088	1141	1204	1239	955
65°	627	644	682	730	772	621
75°	251	265	284	298	314	275
85°	40	40	40	37	37	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2934.3	2934.3	2934.3	2934.3	2934.3
2.5°	2942.2	2943.4	2936.6	2918.6	2907.3
5°	2931.0	2929.8	2918.6	2902.8	2893.8
7.5°	2898.3	2900.5	2897.1	2874.6	2862.2
10°	2866.7	2867.8	2858.8	2840.8	2826.1
12.5°	2826.1	2825.0	2812.6	2803.6	2779.9
15°	2761.9	2768.6	2761.9	2749.5	2730.3
17.5°	2699.9	2699.9	2704.4	2683.0	2668.3
20°	2630.0	2633.4	2633.4	2616.4	2599.5
22.5°	2548.8	2558.9	2562.3	2544.3	2524.0
25°	2453.0	2472.1	2483.4	2465.4	2444.0
27.5°	2336.9	2366.2	2400.0	2386.5	2362.8
30°	2207.2	2250.1	2306.4	2295.2	2278.3
32.5°	2084.4	2127.2	2205.0	2200.5	2191.5
35°	1972.8	1999.8	2091.1	2102.4	2094.5
37.5°	1866.8	1891.6	1977.3	2003.2	1996.4
40°	1755.2	1782.2	1849.9	1896.1	1898.4
42.5°	1644.7	1670.6	1725.9	1792.4	1792.4
45°	1527.5	1553.4	1604.1	1677.4	1686.4
47.5°	1412.5	1439.6	1489.2	1562.4	1577.1
50°	1299.8	1324.6	1374.2	1445.2	1467.7
52.5°	1182.5	1209.6	1258.1	1323.4	1356.1
55°	1069.8	1087.8	1140.8	1203.9	1238.9
57.5°	952.6	969.5	1029.2	1083.3	1119.4
60°	839.8	861.2	907.5	962.7	1004.4
62.5°	731.6	754.2	793.6	842.1	889.4
65°	626.8	643.7	682.0	730.5	772.2
67.5°	525.3	540.0	578.3	612.1	656.1
70°	422.7	441.9	470.1	502.8	531.0
72.5°	340.4	348.3	372.0	395.7	425.0
75°	251.4	264.9	284.1	297.6	314.5
77.5°	180.4	188.3	199.5	210.8	226.6
80°	120.6	124.0	134.1	136.4	148.8
82.5°	73.3	75.5	77.8	78.9	83.4
85°	39.5	39.5	39.5	37.2	37.2
87.5°	22.5	22.5	19.2	15.8	11.3
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)