

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: P557555

Luminaire Tested: **FUSL-12-4-LD4-2STD-40-UNV-80-85-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: P557555
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-40-UNV-80-85-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

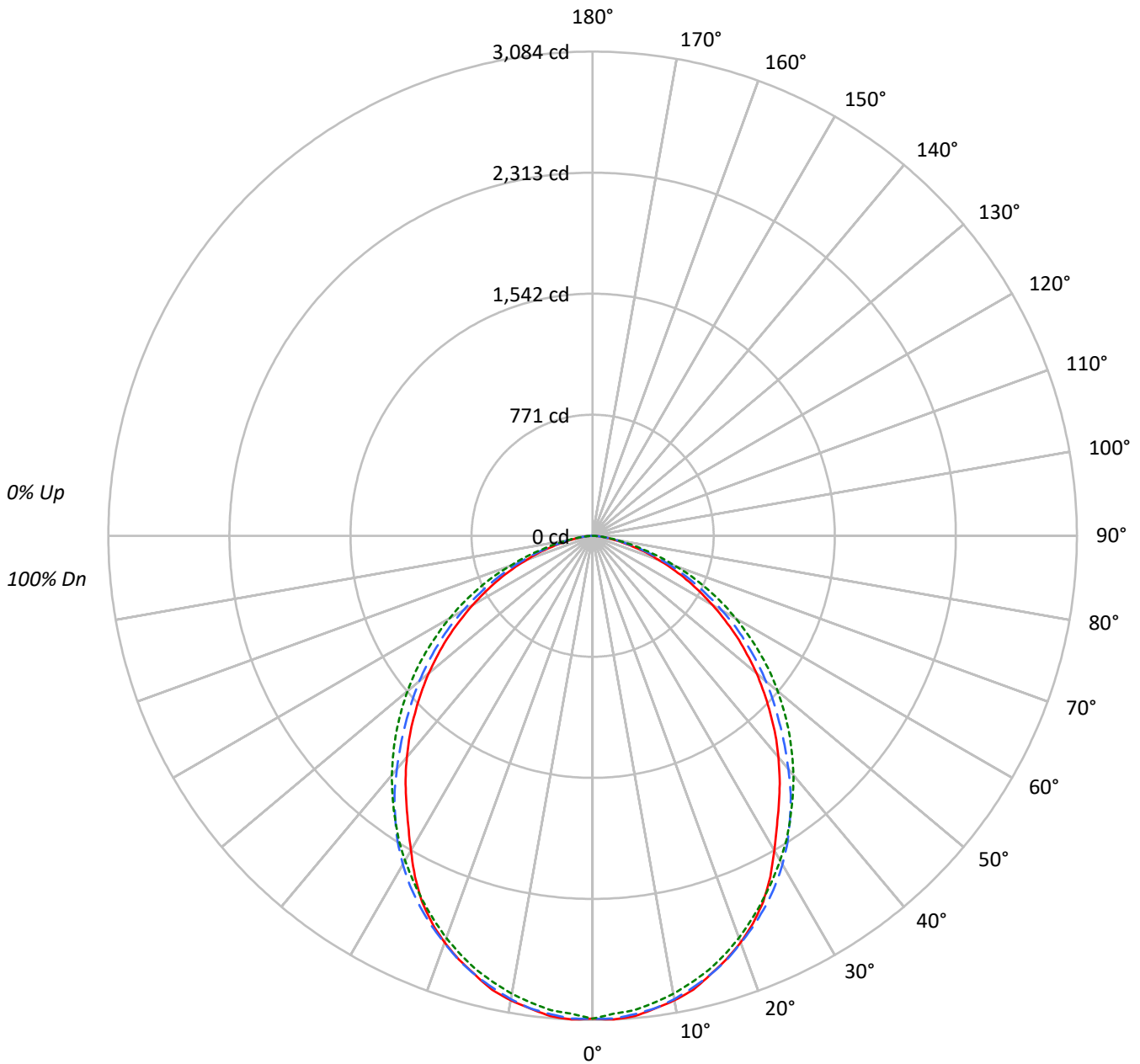
Lumens per Lamp: N/A
Luminaire Lumens: 7112.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P557555

CATALOG NUMBER: FUSL-12-4-LD4-2STD-40-UNV-80-85-EDD

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°	8277	8277	8277
5°	8299	8264	8193
10°	8211	8188	8094
15°	8065	8065	7973
20°	7894	7905	7803
25°	7634	7729	7606
30°	7189	7512	7420
35°	6793	7201	7212
40°	6463	6811	6990
45°	6093	6399	6727
50°	5704	6030	6441
55°	5261	5610	6092
60°	4738	5119	5666
65°	4183	4552	5154
70°	3486	3877	4378
75°	2740	3096	3428
80°	1959	2179	2417
85°	1278	1278	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.6	4.1
10°-20°	813.5	11.4
20°-30°	1188.9	16.7
30°-40°	1349.5	19.0
40°-50°	1302.7	18.3
50°-60°	1074.7	15.1
60°-70°	715.6	10.1
70°-80°	320.2	4.5
80°-90°	57.3	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°	2292.0	32.2
0°-40°	3641.5	51.2
0°-60°	6018.8	84.6
0°-90°	7112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3076	3076	3076	3076	3076	
5°	3072	3071	3059	3043	3033	291
15°	2895	2902	2895	2882	2862	816
25°	2571	2591	2603	2584	2562	1177
35°	2068	2096	2192	2204	2195	1296
45°	1601	1628	1681	1758	1768	1235
55°	1121	1140	1196	1262	1299	1001
65°	657	675	715	766	809	651
75°	264	278	298	312	330	288
85°	41	41	41	39	39	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3075.8	3075.8	3075.8	3075.8	3075.8
2.5°	3084.0	3085.2	3078.1	3059.2	3047.4
5°	3072.2	3071.0	3059.2	3042.7	3033.2
7.5°	3037.9	3040.3	3036.8	3013.1	3000.1
10°	3004.9	3006.0	2996.6	2977.7	2962.3
12.5°	2962.3	2961.1	2948.1	2938.7	2913.9
15°	2895.0	2902.1	2895.0	2882.0	2861.9
17.5°	2830.0	2830.0	2834.7	2812.3	2796.9
20°	2756.7	2760.3	2760.3	2742.5	2724.8
22.5°	2671.6	2682.3	2685.8	2666.9	2645.6
25°	2571.2	2591.3	2603.1	2584.2	2561.8
27.5°	2449.5	2480.2	2515.7	2501.5	2476.7
30°	2313.6	2358.5	2417.6	2405.8	2388.1
32.5°	2184.8	2229.7	2311.2	2306.5	2297.1
35°	2067.8	2096.2	2191.9	2203.7	2195.4
37.5°	1956.8	1982.8	2072.6	2099.7	2092.6
40°	1839.8	1868.1	1939.0	1987.5	1989.8
42.5°	1724.0	1751.2	1809.1	1878.8	1878.8
45°	1601.1	1628.3	1681.4	1758.3	1767.7
47.5°	1480.6	1508.9	1560.9	1637.7	1653.1
50°	1362.4	1388.4	1440.4	1514.8	1538.5
52.5°	1239.5	1267.9	1318.7	1387.2	1421.5
55°	1121.4	1140.3	1195.8	1262.0	1298.6
57.5°	998.5	1016.2	1078.8	1135.5	1173.3
60°	880.3	902.8	951.2	1009.1	1052.8
62.5°	766.9	790.5	831.9	882.7	932.3
65°	657.0	674.7	714.9	765.7	809.4
67.5°	550.6	566.0	606.2	641.6	687.7
70°	443.1	463.2	492.7	527.0	556.5
72.5°	356.8	365.1	389.9	414.7	445.5
75°	263.5	277.7	297.8	311.9	329.7
77.5°	189.1	197.3	209.1	221.0	237.5
80°	126.4	130.0	140.6	143.0	156.0
82.5°	76.8	79.2	81.5	82.7	87.4
85°	41.4	41.4	41.4	39.0	39.0
87.5°	23.6	23.6	20.1	16.5	11.8
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)