

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: P558005

Luminaire Tested: **FUSL-12-4-LD4-3LO-35-UNV-80-86-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: P558005
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-35-UNV-80-86-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

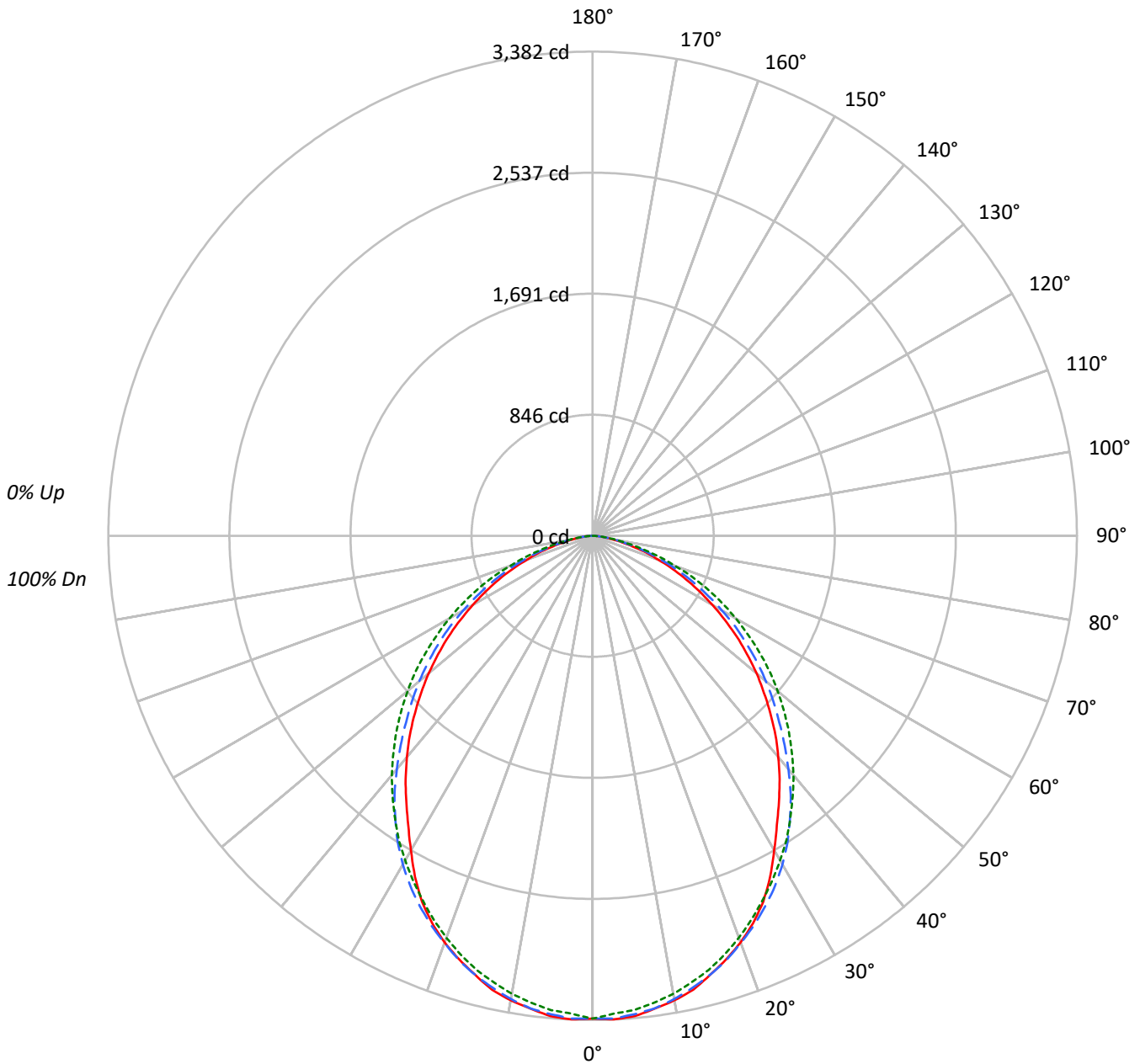
Lumens per Lamp: N/A
Luminaire Lumens: 7798.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P558005

CATALOG NUMBER: FUSL-12-4-LD4-3LO-35-UNV-80-86-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°	9075	9075	9075
5°	9099	9061	8984
10°	9003	8978	8875
15°	8843	8843	8742
20°	8656	8667	8556
25°	8371	8475	8340
30°	7883	8237	8136
35°	7448	7895	7908
40°	7086	7469	7664
45°	6681	7016	7376
50°	6254	6612	7062
55°	5768	6151	6680
60°	5195	5613	6213
65°	4587	4991	5651
70°	3822	4251	4801
75°	3004	3395	3759
80°	2148	2390	2650
85°	1399	1399	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.5	4.1
10°-20°	892.0	11.4
20°-30°	1303.5	16.7
30°-40°	1479.7	19.0
40°-50°	1428.4	18.3
50°-60°	1178.3	15.1
60°-70°	784.7	10.1
70°-80°	351.1	4.5
80°-90°	62.8	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°	2513.1	32.2
0°-40°	3992.7	51.2
0°-60°	6599.4	84.6
0°-90°	7798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3372	3372	3372	3372	3372	
5°	3368	3367	3354	3336	3326	319
15°	3174	3182	3174	3160	3138	895
25°	2819	2841	2854	2834	2809	1291
35°	2267	2298	2403	2416	2407	1421
45°	1756	1785	1844	1928	1938	1354
55°	1230	1250	1311	1384	1424	1097
65°	720	740	784	840	888	714
75°	289	304	326	342	362	316
85°	45	45	45	43	43	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3372.4	3372.4	3372.4	3372.4	3372.4
2.5°	3381.5	3382.8	3375.0	3354.3	3341.3
5°	3368.5	3367.3	3354.3	3336.2	3325.8
7.5°	3331.0	3333.6	3329.7	3303.8	3289.5
10°	3294.7	3296.0	3285.6	3264.9	3248.1
12.5°	3248.1	3246.8	3232.5	3222.1	3194.9
15°	3174.2	3182.0	3174.2	3160.0	3137.9
17.5°	3102.9	3102.9	3108.1	3083.5	3066.7
20°	3022.6	3026.5	3026.5	3007.1	2987.6
22.5°	2929.3	2941.0	2944.9	2924.2	2900.8
25°	2819.2	2841.2	2854.2	2833.5	2808.8
27.5°	2685.8	2719.5	2758.3	2742.8	2715.6
30°	2536.8	2586.0	2650.8	2637.8	2618.4
32.5°	2395.6	2444.8	2534.2	2529.0	2518.6
35°	2267.3	2298.4	2403.3	2416.3	2407.2
37.5°	2145.5	2174.0	2272.5	2302.3	2294.5
40°	2017.2	2048.3	2126.1	2179.2	2181.8
42.5°	1890.3	1920.1	1983.6	2060.0	2060.0
45°	1755.5	1785.3	1843.6	1927.8	1938.2
47.5°	1623.4	1654.5	1711.5	1795.7	1812.5
50°	1493.8	1522.3	1579.3	1661.0	1686.9
52.5°	1359.1	1390.2	1445.9	1521.0	1558.6
55°	1229.5	1250.2	1311.1	1383.7	1423.9
57.5°	1094.8	1114.2	1182.9	1245.1	1286.5
60°	965.2	989.8	1043.0	1106.4	1154.4
62.5°	840.8	866.8	912.1	967.8	1022.2
65°	720.4	739.8	783.8	839.5	887.5
67.5°	603.7	620.6	664.6	703.5	754.0
70°	485.8	507.9	540.3	577.8	610.2
72.5°	391.3	400.3	427.5	454.8	488.4
75°	288.9	304.5	326.5	342.0	361.5
77.5°	207.3	216.4	229.3	242.3	260.4
80°	138.6	142.5	154.2	156.8	171.0
82.5°	84.2	86.8	89.4	90.7	95.9
85°	45.3	45.3	45.3	42.8	42.8
87.5°	25.9	25.9	22.0	18.1	13.0
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)