

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: P558015

Luminaire Tested: **FUSL-12-4-LD4-3LO-35-UNV-80-97-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: P558015
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-80-97-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

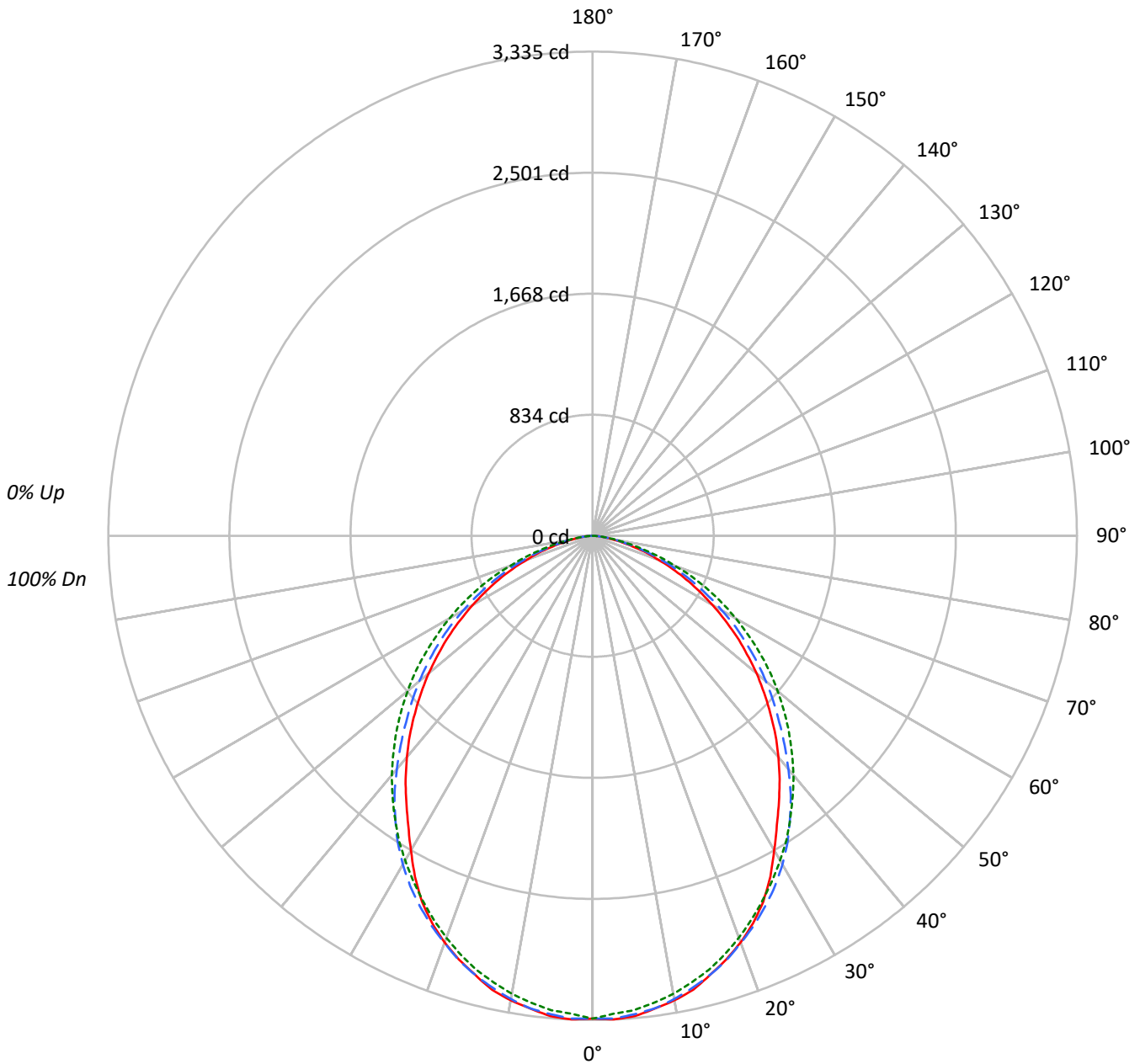
Lumens per Lamp: N/A
Luminaire Lumens: 7690.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	8949	8949	8949
5°	8973	8935	8859
10°	8878	8854	8752
15°	8720	8720	8621
20°	8536	8547	8437
25°	8255	8357	8224
30°	7773	8123	8023
35°	7345	7786	7798
40°	6988	7365	7558
45°	6588	6919	7274
50°	6167	6520	6964
55°	5689	6066	6587
60°	5123	5535	6127
65°	4523	4922	5573
70°	3770	4192	4735
75°	2962	3348	3707
80°	2118	2356	2613
85°	1380	1380	1303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.1	4.1
10°-20°	879.7	11.4
20°-30°	1285.5	16.7
30°-40°	1459.2	19.0
40°-50°	1408.6	18.3
50°-60°	1162.0	15.1
60°-70°	773.8	10.1
70°-80°	346.3	4.5
80°-90°	61.9	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°	2478.3	32.2
0°-40°	3937.4	51.2
0°-60°	6508.0	84.6
0°-90°	7690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7690.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3326	3326	3326	3326	3326	
5°	3322	3321	3308	3290	3280	314
15°	3130	3138	3130	3116	3094	882
25°	2780	2802	2815	2794	2770	1273
35°	2236	2267	2370	2383	2374	1401
45°	1731	1761	1818	1901	1911	1336
55°	1212	1233	1293	1364	1404	1082
65°	710	730	773	828	875	704
75°	285	300	322	337	356	312
85°	45	45	45	42	42	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3325.7	3325.7	3325.7	3325.7	3325.7
2.5°	3334.7	3335.9	3328.3	3307.8	3295.1
5°	3321.9	3320.6	3307.8	3290.0	3279.7
7.5°	3284.8	3287.4	3283.6	3258.0	3244.0
10°	3249.1	3250.3	3240.1	3219.7	3203.1
12.5°	3203.1	3201.8	3187.7	3177.5	3150.7
15°	3130.2	3137.9	3130.2	3116.2	3094.5
17.5°	3060.0	3060.0	3065.1	3040.8	3024.2
20°	2980.8	2984.6	2984.6	2965.4	2946.3
22.5°	2888.8	2900.3	2904.1	2883.7	2860.7
25°	2780.2	2801.9	2814.7	2794.2	2769.9
27.5°	2648.6	2681.8	2720.1	2704.8	2678.0
30°	2501.6	2550.2	2614.1	2601.3	2582.1
32.5°	2362.4	2410.9	2499.1	2494.0	2483.8
35°	2235.9	2266.6	2370.0	2382.8	2373.9
37.5°	2115.8	2143.9	2241.0	2270.4	2262.7
40°	1989.3	2020.0	2096.6	2149.0	2151.6
42.5°	1864.1	1893.5	1956.1	2031.5	2031.5
45°	1731.2	1760.6	1818.1	1901.1	1911.4
47.5°	1600.9	1631.6	1687.8	1770.8	1787.4
50°	1473.1	1501.2	1557.5	1637.9	1663.5
52.5°	1340.3	1370.9	1425.9	1500.0	1537.0
55°	1212.5	1232.9	1293.0	1364.5	1404.1
57.5°	1079.6	1098.8	1166.5	1227.8	1268.7
60°	951.9	976.1	1028.5	1091.1	1138.4
62.5°	829.2	854.7	899.5	954.4	1008.1
65°	710.4	729.5	773.0	827.9	875.2
67.5°	595.4	612.0	655.4	693.8	743.6
70°	479.1	500.8	532.8	569.8	601.8
72.5°	385.9	394.8	421.6	448.5	481.7
75°	284.9	300.2	322.0	337.3	356.5
77.5°	204.4	213.4	226.1	238.9	256.8
80°	136.7	140.5	152.0	154.6	168.6
82.5°	83.0	85.6	88.2	89.4	94.5
85°	44.7	44.7	44.7	42.2	42.2
87.5°	25.6	25.6	21.7	17.9	12.8
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)