

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: P554300

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-80-96-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: P554300
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-12-2-LD4-1LO-50-UNV-80-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

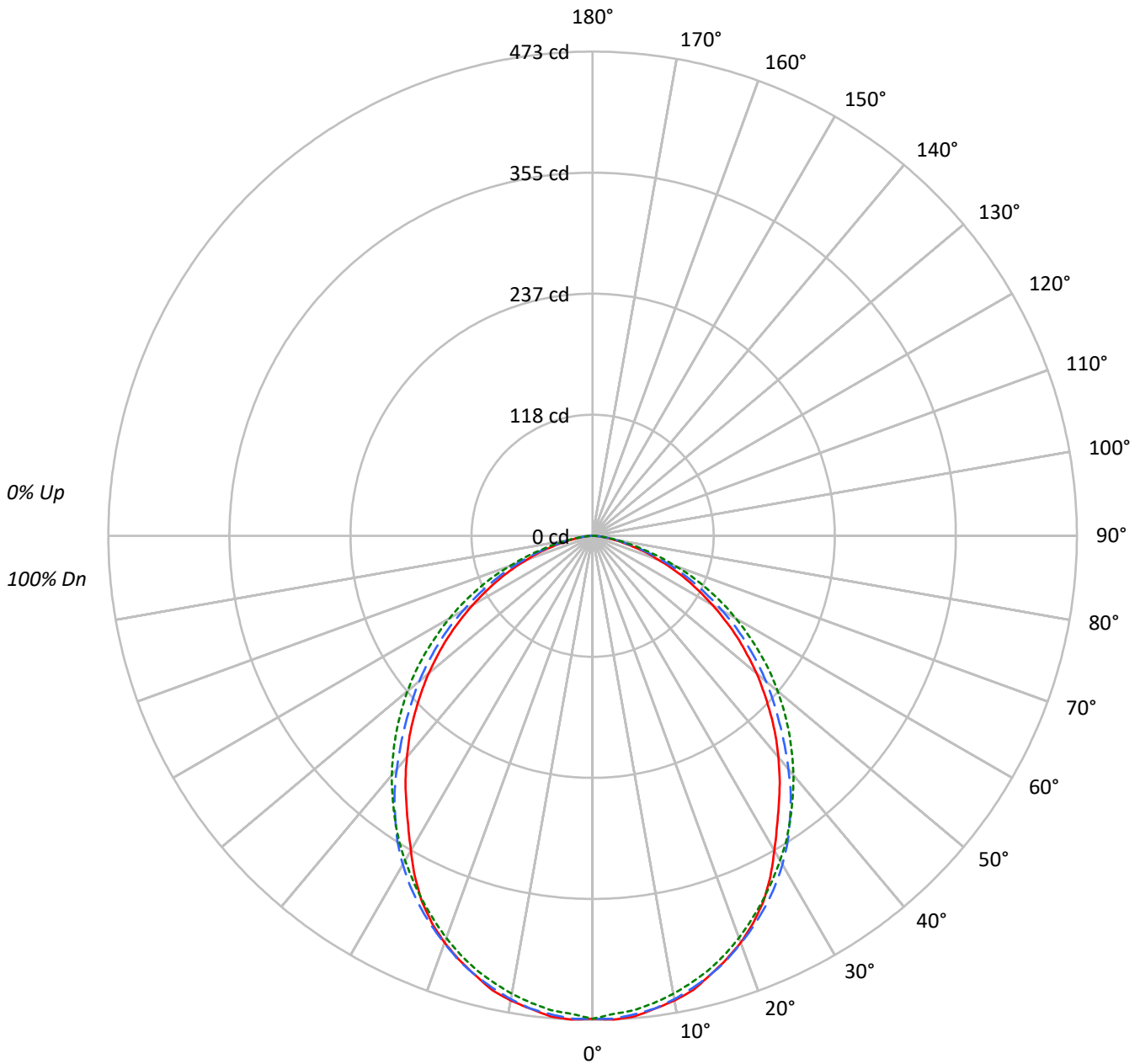
Lumens per Lamp: N/A
Luminaire Lumens: 1091.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	2539	2539	2539
5°	2546	2535	2514
10°	2519	2512	2483
15°	2474	2474	2446
20°	2422	2425	2394
25°	2342	2371	2334
30°	2206	2305	2276
35°	2084	2209	2213
40°	1983	2090	2144
45°	1869	1963	2064
50°	1750	1850	1976
55°	1614	1721	1869
60°	1453	1570	1738
65°	1284	1397	1582
70°	1070	1190	1344
75°	840	950	1052
80°	601	669	741
85°	389	389	371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	4.1
10°-20°	124.8	11.4
20°-30°	182.4	16.7
30°-40°	207.0	19.0
40°-50°	199.8	18.3
50°-60°	164.9	15.1
60°-70°	109.8	10.1
70°-80°	49.1	4.5
80°-90°	8.8	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°	351.6	32.2
0°-40°	558.6	51.2
0°-60°	923.3	84.6
0°-90°	1091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	472	472	472	472	472	
5°	471	471	469	467	465	45
15°	444	445	444	442	439	125
25°	394	398	399	396	393	181
35°	317	322	336	338	337	199
45°	246	250	258	270	271	190
55°	172	175	183	194	199	154
65°	101	104	110	118	124	100
75°	40	43	46	48	51	44
85°	6	6	6	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	471.8	471.8	471.8	471.8	471.8
2.5°	473.1	473.3	472.2	469.3	467.5
5°	471.3	471.1	469.3	466.8	465.3
7.5°	466.0	466.4	465.8	462.2	460.2
10°	461.0	461.1	459.7	456.8	454.4
12.5°	454.4	454.2	452.3	450.8	447.0
15°	444.1	445.2	444.1	442.1	439.0
17.5°	434.1	434.1	434.9	431.4	429.1
20°	422.9	423.4	423.4	420.7	418.0
22.5°	409.8	411.5	412.0	409.1	405.8
25°	394.4	397.5	399.3	396.4	393.0
27.5°	375.8	380.5	385.9	383.7	379.9
30°	354.9	361.8	370.9	369.1	366.3
32.5°	335.2	342.0	354.6	353.8	352.4
35°	317.2	321.6	336.2	338.1	336.8
37.5°	300.2	304.2	317.9	322.1	321.0
40°	282.2	286.6	297.5	304.9	305.2
42.5°	264.5	268.6	277.5	288.2	288.2
45°	245.6	249.8	257.9	269.7	271.2
47.5°	227.1	231.5	239.4	251.2	253.6
50°	209.0	213.0	221.0	232.4	236.0
52.5°	190.1	194.5	202.3	212.8	218.1
55°	172.0	174.9	183.4	193.6	199.2
57.5°	153.2	155.9	165.5	174.2	180.0
60°	135.0	138.5	145.9	154.8	161.5
62.5°	117.6	121.3	127.6	135.4	143.0
65°	100.8	103.5	109.7	117.5	124.2
67.5°	84.5	86.8	93.0	98.4	105.5
70°	68.0	71.1	75.6	80.8	85.4
72.5°	54.7	56.0	59.8	63.6	68.3
75°	40.4	42.6	45.7	47.9	50.6
77.5°	29.0	30.3	32.1	33.9	36.4
80°	19.4	19.9	21.6	21.9	23.9
82.5°	11.8	12.1	12.5	12.7	13.4
85°	6.3	6.3	6.3	6.0	6.0
87.5°	3.6	3.6	3.1	2.5	1.8
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)