

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: P554302

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-80-97-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: P554302
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-80-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

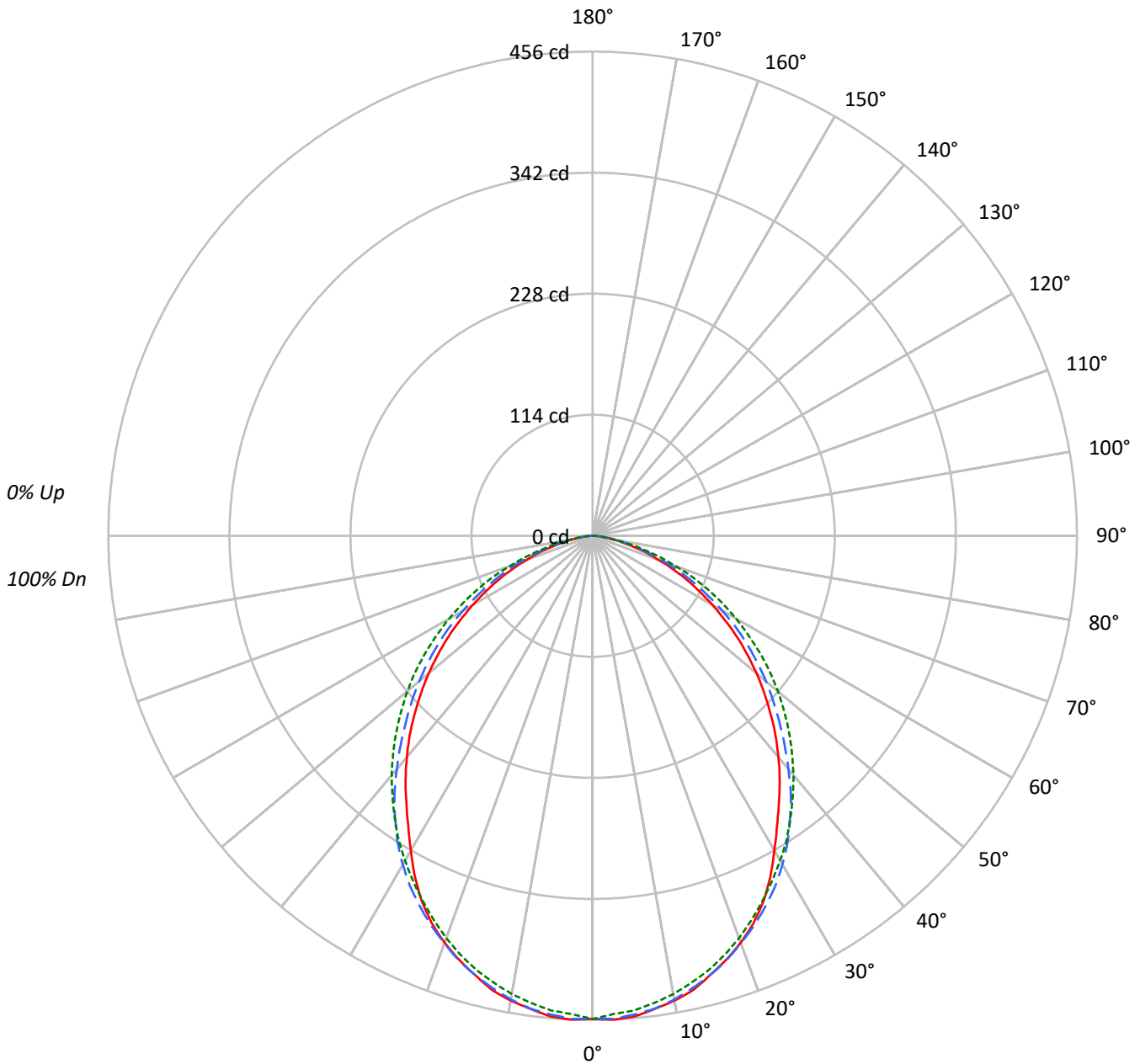
Lumens per Lamp: N/A
Luminaire Lumens: 1052.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2449	2449	2449
5°	2455	2445	2424
10°	2429	2423	2395
15°	2386	2386	2359
20°	2336	2338	2309
25°	2258	2286	2250
30°	2127	2222	2195
35°	2010	2130	2133
40°	1912	2015	2068
45°	1802	1893	1990
50°	1687	1784	1906
55°	1557	1660	1803
60°	1401	1514	1676
65°	1238	1346	1524
70°	1031	1147	1295
75°	811	915	1015
80°	580	645	716
85°	377	377	358



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	4.1
10°-20°	120.3	11.4
20°-30°	175.9	16.7
30°-40°	199.6	19.0
40°-50°	192.7	18.3
50°-60°	159.0	15.1
60°-70°	105.8	10.1
70°-80°	47.4	4.5
80°-90°	8.5	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°	339.0	32.2
0°-40°	538.6	51.2
0°-60°	890.3	84.6
0°-90°	1052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	454	454	452	450	449	43
15°	428	429	428	426	423	121
25°	380	383	385	382	379	174
35°	306	310	324	326	325	192
45°	237	241	249	260	262	183
55°	166	169	177	187	192	148
65°	97	100	106	113	120	96
75°	39	41	44	46	49	43
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	455.0	455.0	455.0	455.0	455.0
2.5°	456.2	456.4	455.3	452.5	450.8
5°	454.4	454.3	452.5	450.1	448.7
7.5°	449.4	449.7	449.2	445.7	443.8
10°	444.5	444.7	443.3	440.5	438.2
12.5°	438.2	438.0	436.1	434.7	431.0
15°	428.2	429.3	428.2	426.3	423.3
17.5°	418.6	418.6	419.3	416.0	413.7
20°	407.8	408.3	408.3	405.7	403.1
22.5°	395.2	396.8	397.3	394.5	391.3
25°	380.3	383.3	385.0	382.3	378.9
27.5°	362.3	366.9	372.1	370.0	366.3
30°	342.2	348.9	357.6	355.9	353.2
32.5°	323.2	329.8	341.9	341.2	339.8
35°	305.9	310.1	324.2	326.0	324.7
37.5°	289.4	293.3	306.6	310.6	309.5
40°	272.1	276.3	286.8	294.0	294.3
42.5°	255.0	259.0	267.6	277.9	277.9
45°	236.8	240.9	248.7	260.1	261.5
47.5°	219.0	223.2	230.9	242.3	244.5
50°	201.5	205.4	213.1	224.1	227.6
52.5°	183.3	187.5	195.1	205.2	210.3
55°	165.9	168.7	176.9	186.7	192.1
57.5°	147.7	150.3	159.6	168.0	173.6
60°	130.2	133.5	140.7	149.3	155.7
62.5°	113.4	116.9	123.0	130.6	137.9
65°	97.2	99.8	105.7	113.3	119.7
67.5°	81.4	83.7	89.7	94.9	101.7
70°	65.5	68.5	72.9	78.0	82.3
72.5°	52.8	54.0	57.7	61.3	65.9
75°	39.0	41.1	44.0	46.1	48.8
77.5°	28.0	29.2	30.9	32.7	35.1
80°	18.7	19.2	20.8	21.1	23.1
82.5°	11.4	11.7	12.1	12.2	12.9
85°	6.1	6.1	6.1	5.8	5.8
87.5°	3.5	3.5	3.0	2.4	1.7
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)