

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: P554263

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-82-87-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: P554263
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-40-UNV-82-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

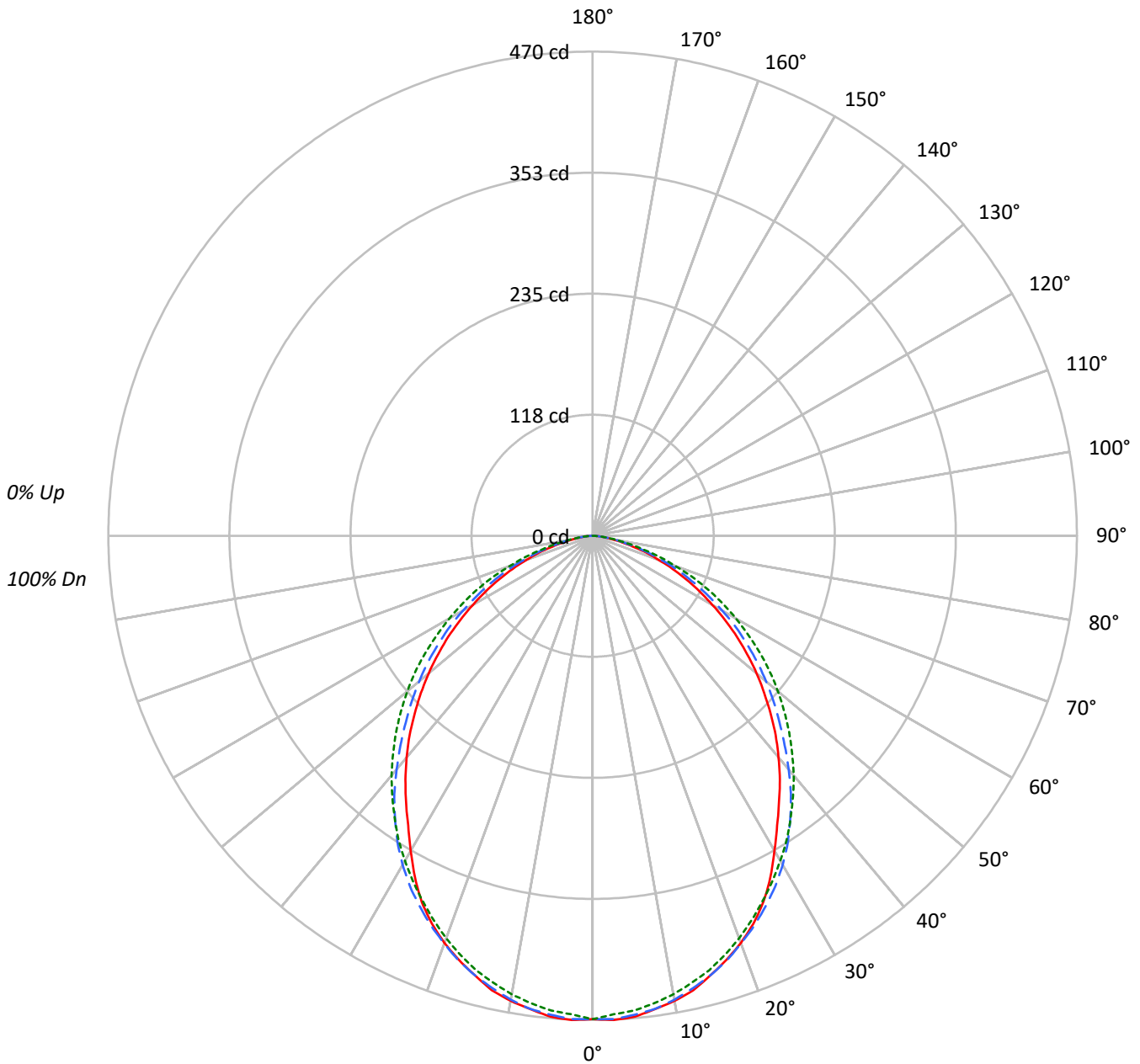
Lumens per Lamp: N/A
Luminaire Lumens: 1085.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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

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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°	2525	2525	2525
5°	2532	2521	2500
10°	2505	2499	2470
15°	2461	2461	2433
20°	2409	2412	2381
25°	2330	2358	2321
30°	2194	2292	2264
35°	2073	2197	2200
40°	1972	2078	2133
45°	1859	1952	2053
50°	1740	1840	1965
55°	1605	1711	1859
60°	1446	1562	1729
65°	1276	1389	1573
70°	1064	1183	1336
75°	836	944	1046
80°	598	666	738
85°	389	389	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.2	4.1
10°-20°	124.1	11.4
20°-30°	181.4	16.7
30°-40°	205.9	19.0
40°-50°	198.7	18.3
50°-60°	163.9	15.1
60°-70°	109.2	10.1
70°-80°	48.9	4.5
80°-90°	8.7	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°	349.7	32.2
0°-40°	555.5	51.2
0°-60°	918.2	84.6
0°-90°	1085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	469	469	469	469	469	
5°	469	468	467	464	463	44
15°	442	443	442	440	437	125
25°	392	395	397	394	391	180
35°	316	320	334	336	335	198
45°	244	248	256	268	270	188
55°	171	174	182	192	198	153
65°	100	103	109	117	124	99
75°	40	42	45	48	50	44
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°	469.2	469.2	469.2	469.2	469.2
2.5°	470.5	470.7	469.6	466.7	464.9
5°	468.7	468.5	466.7	464.2	462.7
7.5°	463.5	463.8	463.3	459.7	457.7
10°	458.4	458.6	457.2	454.3	451.9
12.5°	451.9	451.7	449.8	448.3	444.5
15°	441.7	442.7	441.7	439.7	436.6
17.5°	431.7	431.7	432.5	429.0	426.7
20°	420.6	421.1	421.1	418.4	415.7
22.5°	407.6	409.2	409.7	406.9	403.6
25°	392.3	395.3	397.1	394.2	390.8
27.5°	373.7	378.4	383.8	381.6	377.8
30°	353.0	359.8	368.8	367.0	364.3
32.5°	333.3	340.2	352.6	351.9	350.4
35°	315.5	319.8	334.4	336.2	334.9
37.5°	298.5	302.5	316.2	320.3	319.3
40°	280.7	285.0	295.8	303.2	303.6
42.5°	263.0	267.2	276.0	286.6	286.6
45°	244.3	248.4	256.5	268.2	269.7
47.5°	225.9	230.2	238.1	249.8	252.2
50°	207.8	211.8	219.7	231.1	234.7
52.5°	189.1	193.4	201.2	211.6	216.9
55°	171.1	174.0	182.4	192.5	198.1
57.5°	152.3	155.0	164.6	173.2	179.0
60°	134.3	137.7	145.1	153.9	160.6
62.5°	117.0	120.6	126.9	134.7	142.2
65°	100.2	102.9	109.1	116.8	123.5
67.5°	84.0	86.3	92.5	97.9	104.9
70°	67.6	70.7	75.2	80.4	84.9
72.5°	54.4	55.7	59.5	63.3	68.0
75°	40.2	42.4	45.4	47.6	50.3
77.5°	28.8	30.1	31.9	33.7	36.2
80°	19.3	19.8	21.5	21.8	23.8
82.5°	11.7	12.1	12.4	12.6	13.3
85°	6.3	6.3	6.3	5.9	5.9
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)