

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: P554906

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-82-94-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: P554906
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-LD4-2LO-30-UNV-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

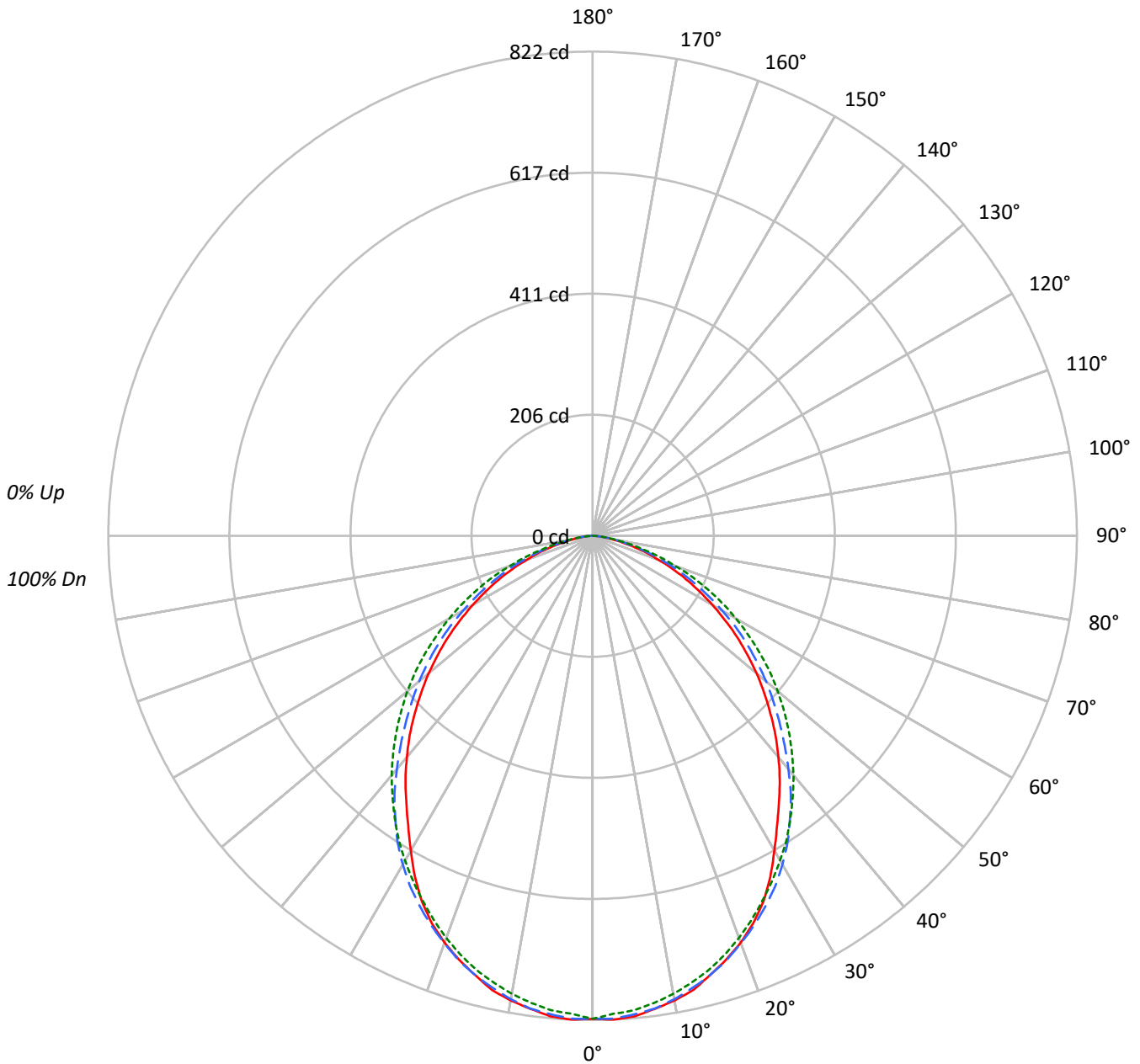
Lumens per Lamp: N/A
Luminaire Lumens: 1896.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4413	4413	4413
5°	4425	4406	4368
10°	4378	4366	4316
15°	4300	4300	4251
20°	4209	4215	4160
25°	4071	4121	4055
30°	3833	4005	3956
35°	3622	3839	3846
40°	3446	3632	3727
45°	3248	3412	3587
50°	3041	3215	3434
55°	2805	2991	3248
60°	2526	2730	3021
65°	2230	2427	2748
70°	1858	2068	2335
75°	1460	1651	1828
80°	1044	1162	1289
85°	679	679	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	4.1
10°-20°	216.9	11.4
20°-30°	316.9	16.7
30°-40°	359.8	19.0
40°-50°	347.3	18.3
50°-60°	286.5	15.1
60°-70°	190.8	10.1
70°-80°	85.4	4.5
80°-90°	15.3	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°	611.0	32.2
0°-40°	970.8	51.2
0°-60°	1604.6	84.6
0°-90°	1896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	819	819	816	811	809	78
15°	772	774	772	768	763	218
25°	686	691	694	689	683	314
35°	551	559	584	588	585	345
45°	427	434	448	469	471	329
55°	299	304	319	336	346	267
65°	175	180	191	204	216	174
75°	70	74	79	83	88	77
85°	11	11	11	10	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.0	820.0	820.0	820.0	820.0
2.5°	822.2	822.5	820.6	815.6	812.4
5°	819.0	818.7	815.6	811.2	808.6
7.5°	809.9	810.5	809.6	803.3	799.8
10°	801.1	801.4	798.9	793.8	789.7
12.5°	789.7	789.4	785.9	783.4	776.8
15°	771.8	773.7	771.8	768.3	763.0
17.5°	754.4	754.4	755.7	749.7	745.6
20°	734.9	735.9	735.9	731.1	726.4
22.5°	712.2	715.1	716.0	711.0	705.3
25°	685.5	690.8	694.0	688.9	682.9
27.5°	653.0	661.2	670.7	666.9	660.3
30°	616.8	628.8	644.5	641.4	636.6
32.5°	582.5	594.4	616.2	614.9	612.4
35°	551.3	558.8	584.3	587.5	585.3
37.5°	521.7	528.6	552.5	559.8	557.9
40°	490.5	498.0	516.9	529.8	530.5
42.5°	459.6	466.8	482.3	500.9	500.9
45°	426.8	434.1	448.3	468.7	471.3
47.5°	394.7	402.3	416.1	436.6	440.7
50°	363.2	370.1	384.0	403.8	410.1
52.5°	330.4	338.0	351.6	369.8	379.0
55°	298.9	304.0	318.8	336.4	346.2
57.5°	266.2	270.9	287.6	302.7	312.8
60°	234.7	240.7	253.6	269.0	280.7
62.5°	204.4	210.7	221.8	235.3	248.5
65°	175.1	179.9	190.6	204.1	215.8
67.5°	146.8	150.9	161.6	171.1	183.3
70°	118.1	123.5	131.4	140.5	148.4
72.5°	95.1	97.3	104.0	110.6	118.8
75°	70.2	74.0	79.4	83.2	87.9
77.5°	50.4	52.6	55.8	58.9	63.3
80°	33.7	34.7	37.5	38.1	41.6
82.5°	20.5	21.1	21.7	22.1	23.3
85°	11.0	11.0	11.0	10.4	10.4
87.5°	6.3	6.3	5.4	4.4	3.2
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)