

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: P554882

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-81-85-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: P554882
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-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

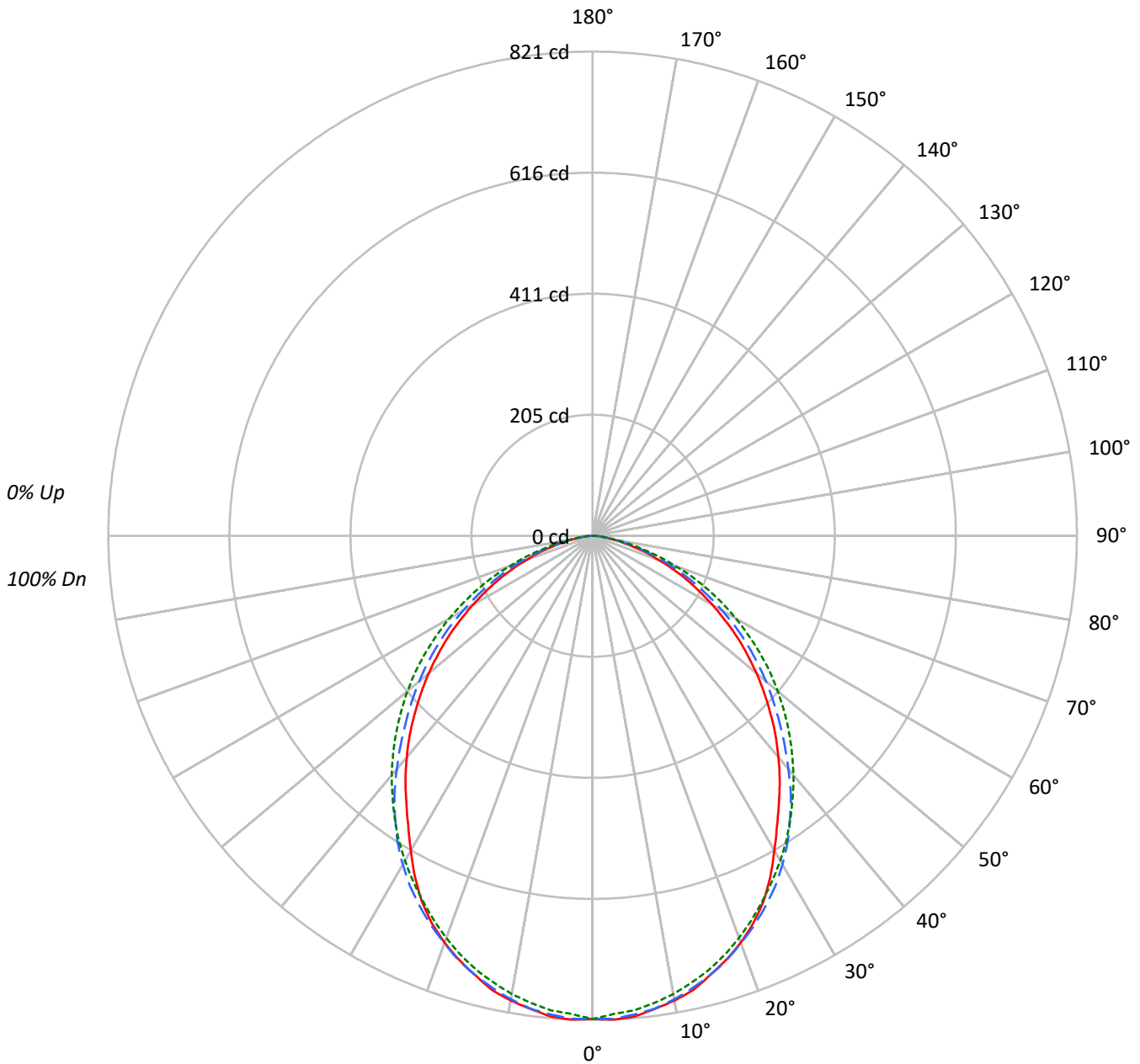
Lumens per Lamp: N/A
Luminaire Lumens: 1894.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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				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°	4408	4408	4408
5°	4420	4401	4364
10°	4373	4361	4311
15°	4296	4296	4246
20°	4204	4210	4156
25°	4066	4116	4051
30°	3829	4001	3952
35°	3618	3835	3842
40°	3443	3628	3723
45°	3245	3408	3583
50°	3038	3212	3430
55°	2802	2989	3245
60°	2523	2726	3018
65°	2229	2425	2746
70°	1857	2065	2332
75°	1460	1649	1826
80°	1044	1159	1286
85°	679	679	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	4.1
10°-20°	216.7	11.4
20°-30°	316.6	16.7
30°-40°	359.4	19.0
40°-50°	346.9	18.3
50°-60°	286.2	15.1
60°-70°	190.6	10.1
70°-80°	85.3	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°	610.4	32.2
0°-40°	969.8	51.2
0°-60°	1602.9	84.6
0°-90°	1894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	818	818	815	810	808	77
15°	771	773	771	768	762	217
25°	685	690	693	688	682	314
35°	551	558	584	587	585	345
45°	426	434	448	468	471	329
55°	299	304	318	336	346	267
65°	175	180	190	204	216	173
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°	819.1	819.1	819.1	819.1	819.1
2.5°	821.3	821.6	819.7	814.7	811.6
5°	818.2	817.8	814.7	810.3	807.8
7.5°	809.0	809.7	808.7	802.4	799.0
10°	800.2	800.5	798.0	793.0	788.9
12.5°	788.9	788.6	785.1	782.6	776.0
15°	771.0	772.8	771.0	767.5	762.1
17.5°	753.7	753.7	754.9	748.9	744.8
20°	734.1	735.1	735.1	730.4	725.6
22.5°	711.5	714.3	715.3	710.2	704.6
25°	684.7	690.1	693.2	688.2	682.2
27.5°	652.3	660.5	669.9	666.2	659.6
30°	616.1	628.1	643.8	640.7	636.0
32.5°	581.8	593.8	615.5	614.3	611.7
35°	550.7	558.2	583.7	586.9	584.7
37.5°	521.1	528.0	551.9	559.2	557.3
40°	490.0	497.5	516.4	529.3	529.9
42.5°	459.1	466.4	481.8	500.3	500.3
45°	426.4	433.6	447.8	468.2	470.8
47.5°	394.3	401.8	415.7	436.1	440.2
50°	362.8	369.7	383.6	403.4	409.7
52.5°	330.1	337.6	351.2	369.4	378.6
55°	298.6	303.7	318.5	336.1	345.8
57.5°	265.9	270.6	287.3	302.4	312.5
60°	234.4	240.4	253.3	268.7	280.4
62.5°	204.2	210.5	221.5	235.1	248.3
65°	175.0	179.7	190.4	203.9	215.6
67.5°	146.6	150.7	161.4	170.9	183.1
70°	118.0	123.4	131.2	140.3	148.2
72.5°	95.0	97.2	103.8	110.5	118.6
75°	70.2	73.9	79.3	83.1	87.8
77.5°	50.3	52.6	55.7	58.8	63.3
80°	33.7	34.6	37.4	38.1	41.5
82.5°	20.5	21.1	21.7	22.0	23.3
85°	11.0	11.0	11.0	10.4	10.4
87.5°	6.3	6.3	5.3	4.4	3.1
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)