

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: P554896

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-82-84-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: P554896
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-82-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

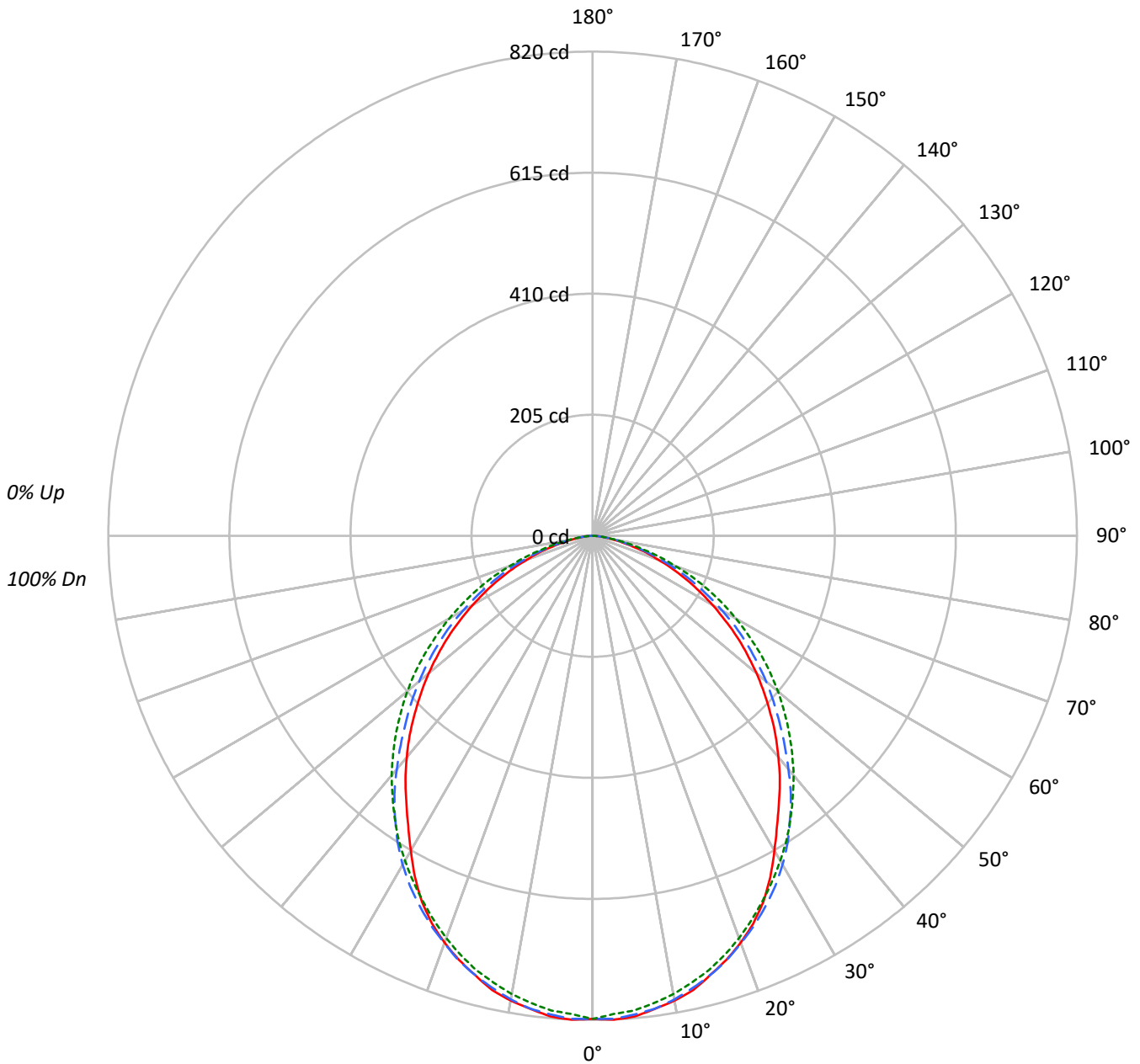
Lumens per Lamp: N/A
Luminaire Lumens: 1892.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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°	4404	4404	4404
5°	4415	4397	4359
10°	4369	4357	4307
15°	4291	4291	4242
20°	4200	4206	4152
25°	4062	4112	4047
30°	3825	3997	3948
35°	3614	3831	3838
40°	3438	3624	3719
45°	3242	3405	3580
50°	3034	3208	3427
55°	2799	2985	3242
60°	2521	2723	3015
65°	2226	2422	2742
70°	1855	2063	2330
75°	1458	1647	1824
80°	1041	1159	1286
85°	679	679	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	4.1
10°-20°	216.4	11.4
20°-30°	316.3	16.7
30°-40°	359.0	19.0
40°-50°	346.6	18.3
50°-60°	285.9	15.1
60°-70°	190.4	10.1
70°-80°	85.2	4.5
80°-90°	15.2	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°	609.7	32.2
0°-40°	968.7	51.2
0°-60°	1601.2	84.6
0°-90°	1892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	817	817	814	809	807	77
15°	770	772	770	767	761	217
25°	684	689	692	688	682	313
35°	550	558	583	586	584	345
45°	426	433	447	468	470	329
55°	298	303	318	336	346	266
65°	175	180	190	204	215	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°	818.2	818.2	818.2	818.2	818.2
2.5°	820.4	820.8	818.9	813.8	810.7
5°	817.3	817.0	813.8	809.4	806.9
7.5°	808.2	808.8	807.9	801.6	798.1
10°	799.4	799.7	797.2	792.2	788.1
12.5°	788.1	787.7	784.3	781.8	775.2
15°	770.1	772.0	770.1	766.7	761.3
17.5°	752.9	752.9	754.1	748.1	744.1
20°	733.4	734.3	734.3	729.6	724.9
22.5°	710.7	713.6	714.5	709.5	703.8
25°	684.0	689.4	692.5	687.5	681.5
27.5°	651.6	659.8	669.2	665.5	658.9
30°	615.5	627.4	643.2	640.0	635.3
32.5°	581.2	593.2	614.9	613.6	611.1
35°	550.1	557.6	583.1	586.3	584.1
37.5°	520.6	527.5	551.4	558.6	556.7
40°	489.4	497.0	515.8	528.7	529.4
42.5°	458.6	465.9	481.3	499.8	499.8
45°	425.9	433.2	447.3	467.7	470.3
47.5°	393.9	401.4	415.3	435.7	439.8
50°	362.4	369.4	383.2	403.0	409.3
52.5°	329.7	337.3	350.8	369.0	378.2
55°	298.3	303.3	318.1	335.7	345.5
57.5°	265.6	270.3	287.0	302.1	312.1
60°	234.2	240.2	253.0	268.5	280.1
62.5°	204.0	210.3	221.3	234.8	248.0
65°	174.8	179.5	190.2	203.7	215.3
67.5°	146.5	150.6	161.3	170.7	182.9
70°	117.9	123.2	131.1	140.2	148.1
72.5°	94.9	97.1	103.7	110.3	118.5
75°	70.1	73.9	79.2	83.0	87.7
77.5°	50.3	52.5	55.6	58.8	63.2
80°	33.6	34.6	37.4	38.0	41.5
82.5°	20.4	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)