

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: P554902

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-82-87-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: P554902
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-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

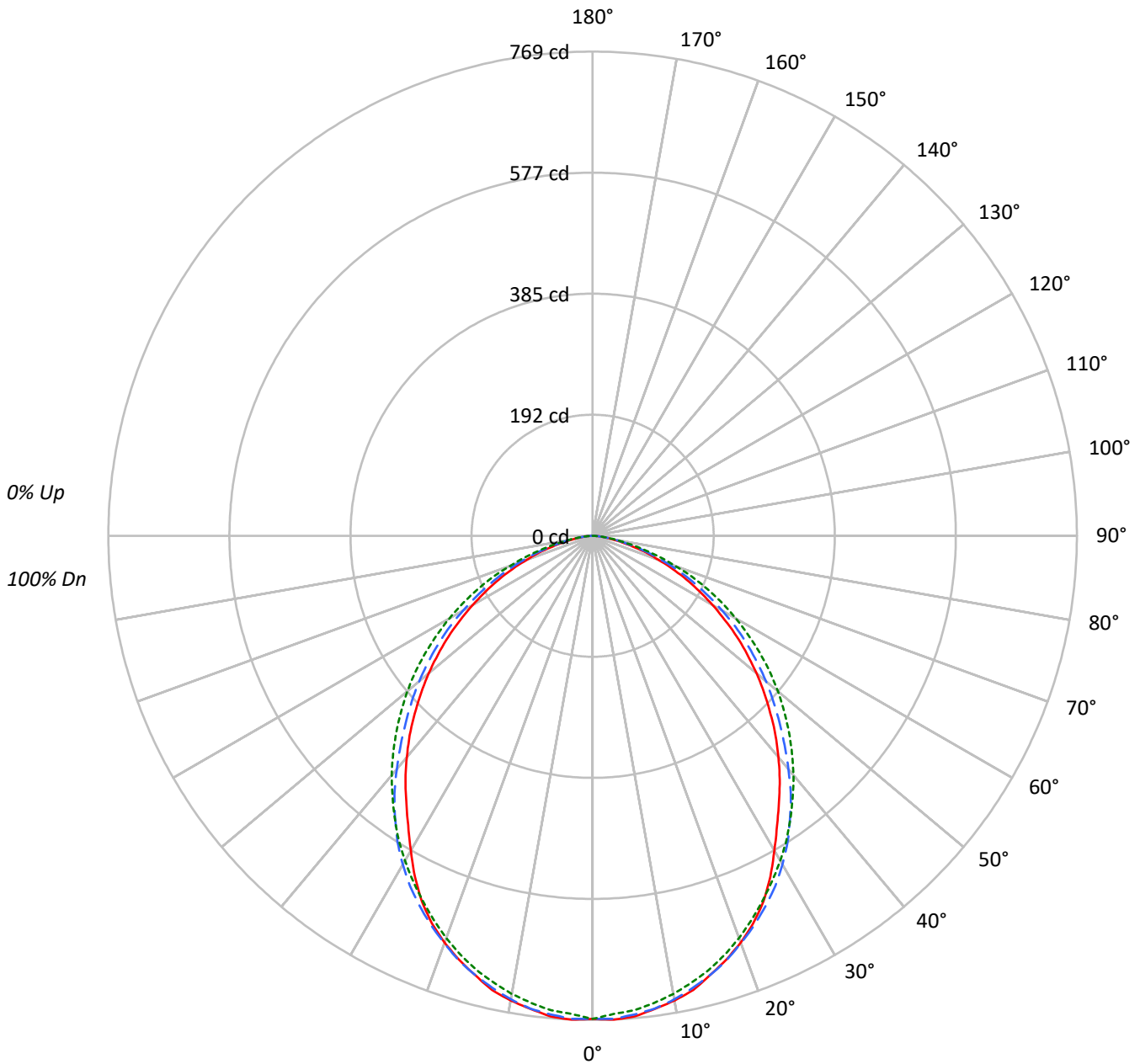
Lumens per Lamp: N/A
Luminaire Lumens: 1774.0 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	4129	4129	4129
5°	4140	4123	4088
10°	4096	4085	4038
15°	4023	4023	3978
20°	3938	3943	3893
25°	3809	3856	3795
30°	3586	3747	3702
35°	3389	3592	3598
40°	3224	3398	3487
45°	3040	3192	3356
50°	2845	3008	3213
55°	2624	2799	3039
60°	2364	2554	2827
65°	2087	2271	2571
70°	1739	1934	2184
75°	1366	1545	1709
80°	976	1088	1206
85°	636	636	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	4.1
10°-20°	202.9	11.4
20°-30°	296.5	16.7
30°-40°	336.6	19.0
40°-50°	324.9	18.3
50°-60°	268.1	15.1
60°-70°	178.5	10.1
70°-80°	79.9	4.5
80°-90°	14.3	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°	571.7	32.2
0°-40°	908.3	51.2
0°-60°	1501.3	84.6
0°-90°	1774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	766	766	763	759	757	73
15°	722	724	722	719	714	204
25°	641	646	649	645	639	294
35°	516	523	547	550	548	323
45°	399	406	419	439	441	308
55°	280	284	298	315	324	250
65°	164	168	178	191	202	162
75°	66	69	74	78	82	72
85°	10	10	10	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.2	767.2	767.2	767.2	767.2
2.5°	769.3	769.6	767.8	763.1	760.1
5°	766.3	766.0	763.1	759.0	756.6
7.5°	757.8	758.4	757.5	751.6	748.3
10°	749.5	749.8	747.5	742.7	738.9
12.5°	738.9	738.6	735.4	733.0	726.8
15°	722.1	723.9	722.1	718.9	713.9
17.5°	705.9	705.9	707.1	701.5	697.7
20°	687.6	688.5	688.5	684.1	679.7
22.5°	666.4	669.1	669.9	665.2	659.9
25°	641.4	646.4	649.3	644.6	639.0
27.5°	611.0	618.7	627.5	624.0	617.8
30°	577.1	588.3	603.0	600.1	595.7
32.5°	545.0	556.2	576.5	575.3	573.0
35°	515.8	522.9	546.7	549.7	547.6
37.5°	488.1	494.6	517.0	523.8	522.0
40°	458.9	466.0	483.7	495.8	496.3
42.5°	430.0	436.8	451.2	468.6	468.6
45°	399.4	406.2	419.4	438.6	440.9
47.5°	369.3	376.4	389.4	408.5	412.3
50°	339.8	346.3	359.3	377.9	383.8
52.5°	309.2	316.3	328.9	346.0	354.6
55°	279.7	284.4	298.3	314.8	323.9
57.5°	249.1	253.5	269.1	283.2	292.7
60°	219.6	225.2	237.3	251.7	262.6
62.5°	191.3	197.2	207.5	220.2	232.6
65°	163.9	168.3	178.3	191.0	201.9
67.5°	137.3	141.2	151.2	160.0	171.5
70°	110.5	115.5	122.9	131.5	138.8
72.5°	89.0	91.1	97.3	103.5	111.1
75°	65.7	69.3	74.3	77.8	82.2
77.5°	47.2	49.2	52.2	55.1	59.2
80°	31.5	32.4	35.1	35.7	38.9
82.5°	19.2	19.7	20.3	20.6	21.8
85°	10.3	10.3	10.3	9.7	9.7
87.5°	5.9	5.9	5.0	4.1	2.9
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)