

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: P553885

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-82-96-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: P553885
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-LD4-1HI-30-UNV-82-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

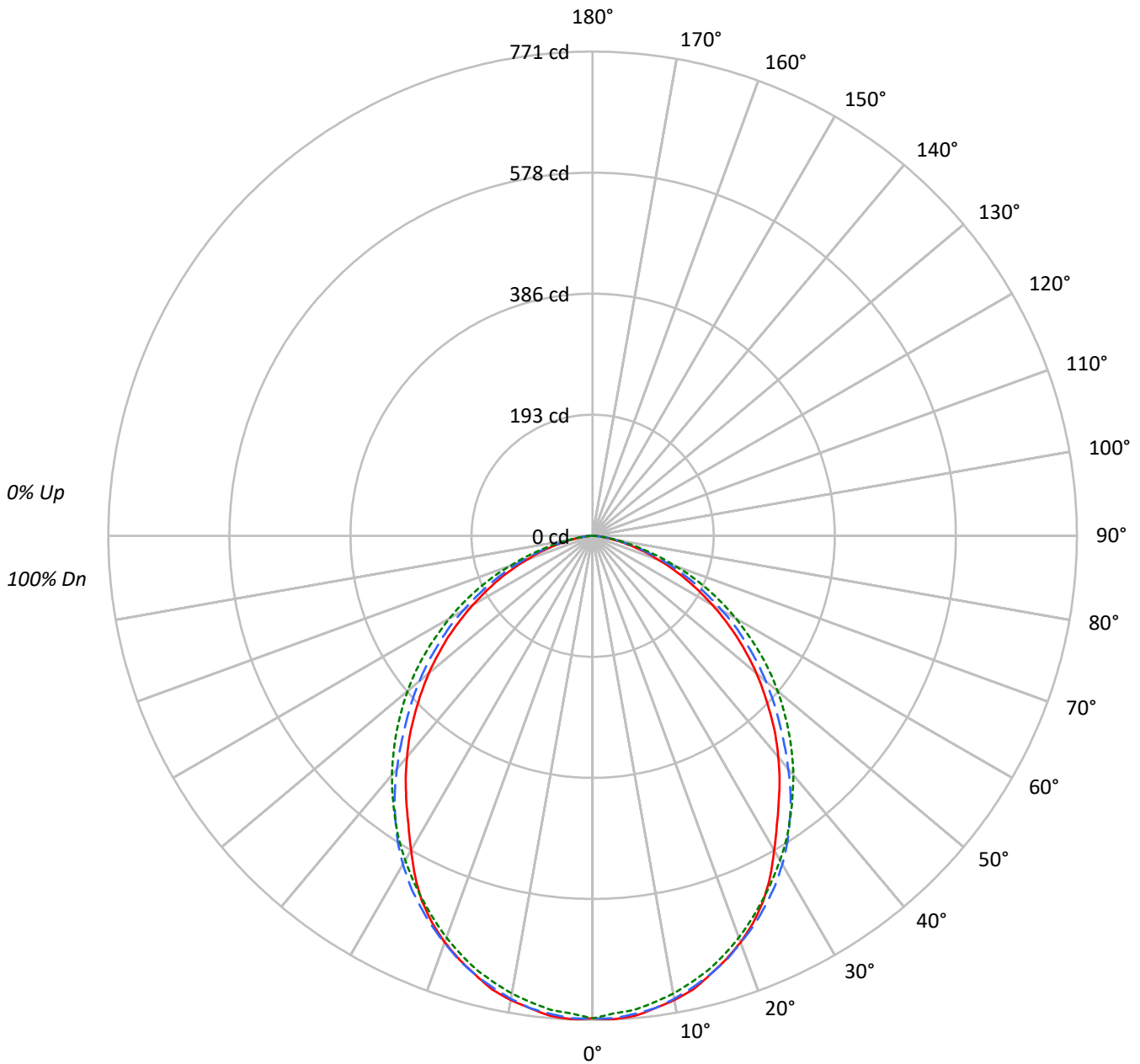
Lumens per Lamp: N/A
Luminaire Lumens: 1777.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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									
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°	4136	4136	4136
5°	4147	4130	4095
10°	4103	4092	4045
15°	4030	4030	3984
20°	3945	3950	3899
25°	3815	3862	3801
30°	3593	3754	3708
35°	3395	3598	3604
40°	3230	3404	3493
45°	3044	3197	3362
50°	2850	3013	3219
55°	2629	2804	3045
60°	2368	2559	2832
65°	2091	2274	2575
70°	1742	1937	2189
75°	1368	1547	1713
80°	979	1088	1209
85°	636	636	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	4.1
10°-20°	203.3	11.4
20°-30°	297.0	16.7
30°-40°	337.2	19.0
40°-50°	325.5	18.3
50°-60°	268.5	15.1
60°-70°	178.8	10.1
70°-80°	80.0	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°	572.7	32.2
0°-40°	909.9	51.2
0°-60°	1503.9	84.6
0°-90°	1777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1777.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	768	767	764	760	758	73
15°	723	725	723	720	715	204
25°	642	648	650	646	640	294
35°	517	524	548	551	549	324
45°	400	407	420	439	442	309
55°	280	285	299	315	324	250
65°	164	169	179	191	202	163
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°	768.5	768.5	768.5	768.5	768.5
2.5°	770.6	770.9	769.1	764.4	761.4
5°	767.6	767.3	764.4	760.2	757.9
7.5°	759.1	759.6	758.8	752.9	749.6
10°	750.8	751.1	748.7	744.0	740.2
12.5°	740.2	739.9	736.6	734.3	728.1
15°	723.3	725.1	723.3	720.1	715.1
17.5°	707.1	707.1	708.3	702.7	698.8
20°	688.8	689.7	689.7	685.2	680.8
22.5°	667.5	670.2	671.1	666.4	661.0
25°	642.4	647.5	650.4	645.7	640.1
27.5°	612.0	619.7	628.6	625.0	618.8
30°	578.1	589.3	604.1	601.1	596.7
32.5°	545.9	557.1	577.5	576.3	573.9
35°	516.7	523.8	547.7	550.6	548.6
37.5°	488.9	495.4	517.8	524.6	522.9
40°	459.7	466.8	484.5	496.6	497.2
42.5°	430.8	437.5	452.0	469.4	469.4
45°	400.0	406.8	420.1	439.3	441.7
47.5°	369.9	377.0	390.0	409.2	413.0
50°	340.4	346.9	359.9	378.5	384.4
52.5°	309.7	316.8	329.5	346.6	355.2
55°	280.2	284.9	298.8	315.3	324.5
57.5°	249.5	253.9	269.6	283.7	293.2
60°	220.0	225.6	237.7	252.1	263.1
62.5°	191.6	197.5	207.8	220.5	232.9
65°	164.2	168.6	178.6	191.3	202.2
67.5°	137.6	141.4	151.5	160.3	171.8
70°	110.7	115.7	123.1	131.7	139.1
72.5°	89.2	91.2	97.4	103.6	111.3
75°	65.8	69.4	74.4	77.9	82.4
77.5°	47.2	49.3	52.3	55.2	59.3
80°	31.6	32.5	35.1	35.7	39.0
82.5°	19.2	19.8	20.4	20.7	21.8
85°	10.3	10.3	10.3	9.7	9.7
87.5°	5.9	5.9	5.0	4.1	3.0
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)