

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: P554443

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-81-94-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: P554443
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-LD4-1STD-35-UNV-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

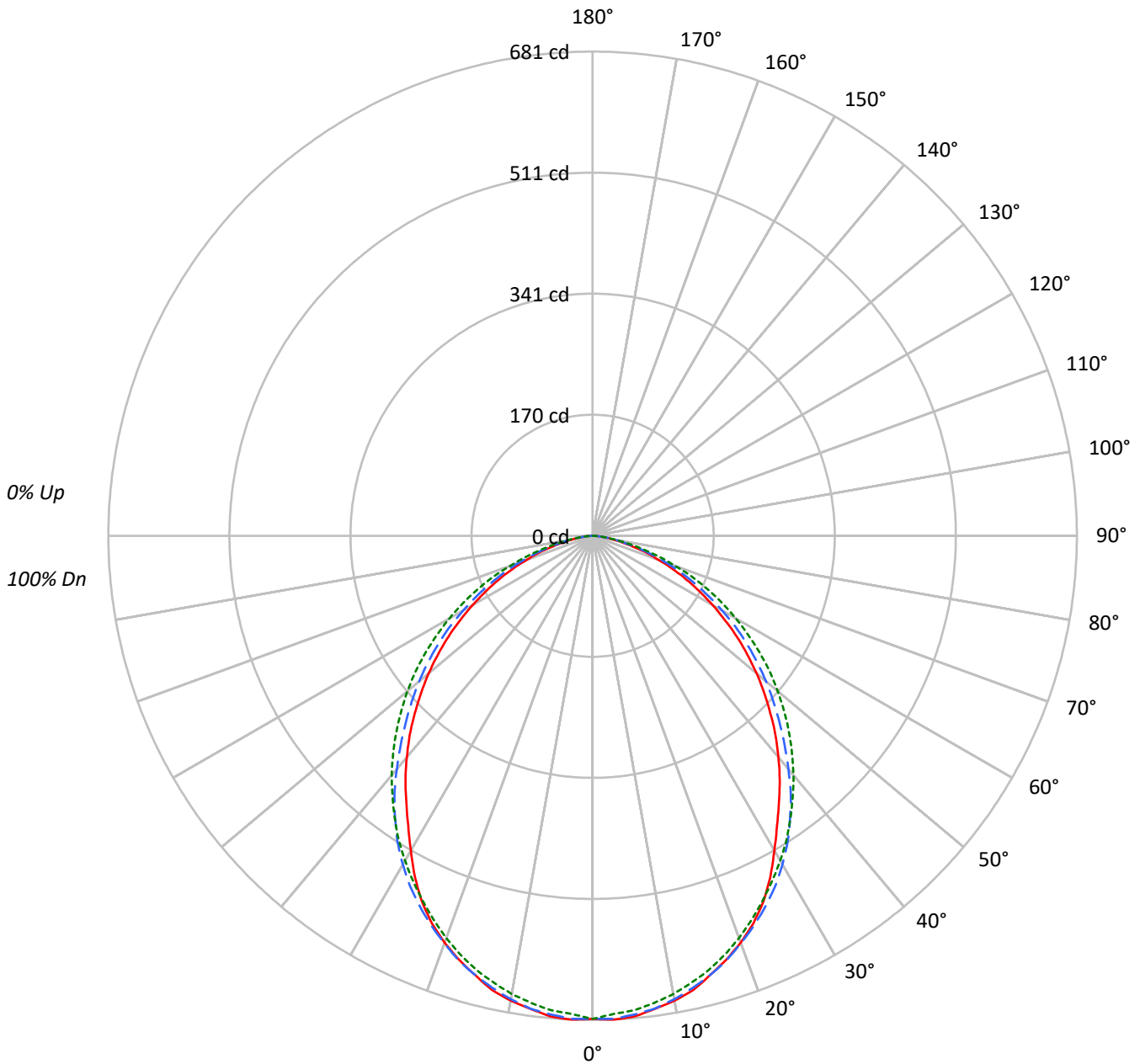
Lumens per Lamp: N/A
Luminaire Lumens: 1571.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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				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			
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°	3657	3657	3657
5°	3666	3651	3620
10°	3628	3617	3576
15°	3563	3563	3522
20°	3487	3492	3447
25°	3373	3415	3361
30°	3176	3319	3278
35°	3001	3181	3187
40°	2855	3009	3088
45°	2692	2827	2972
50°	2519	2664	2845
55°	2324	2478	2692
60°	2094	2261	2504
65°	1848	2011	2277
70°	1541	1712	1934
75°	1210	1368	1514
80°	865	964	1069
85°	562	562	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	4.1
10°-20°	179.7	11.4
20°-30°	262.6	16.7
30°-40°	298.1	19.0
40°-50°	287.8	18.3
50°-60°	237.4	15.1
60°-70°	158.1	10.1
70°-80°	70.7	4.5
80°-90°	12.7	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°	506.3	32.2
0°-40°	804.4	51.2
0°-60°	1329.5	84.6
0°-90°	1571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	679	679	679	679	679	
5°	679	678	676	672	670	64
15°	640	641	640	637	632	180
25°	568	572	575	571	566	260
35°	457	463	484	487	485	286
45°	354	360	371	388	390	273
55°	248	252	264	279	287	221
65°	145	149	158	169	179	144
75°	58	61	66	69	73	64
85°	9	9	9	9	9	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	679.4	679.4	679.4	679.4	679.4
2.5°	681.2	681.5	679.9	675.8	673.2
5°	678.6	678.4	675.8	672.1	670.0
7.5°	671.1	671.6	670.8	665.6	662.7
10°	663.8	664.0	661.9	657.8	654.4
12.5°	654.4	654.1	651.2	649.1	643.7
15°	639.5	641.0	639.5	636.6	632.2
17.5°	625.1	625.1	626.2	621.2	617.8
20°	608.9	609.7	609.7	605.8	601.9
22.5°	590.2	592.5	593.3	589.1	584.4
25°	568.0	572.4	575.0	570.8	565.9
27.5°	541.1	547.9	555.7	552.6	547.1
30°	511.1	521.0	534.0	531.4	527.5
32.5°	482.6	492.5	510.5	509.5	507.4
35°	456.8	463.0	484.2	486.8	485.0
37.5°	432.2	438.0	457.8	463.8	462.3
40°	406.4	412.7	428.3	439.0	439.5
42.5°	380.8	386.8	399.6	415.0	415.0
45°	353.7	359.7	371.4	388.4	390.5
47.5°	327.0	333.3	344.8	361.8	365.2
50°	300.9	306.7	318.2	334.6	339.8
52.5°	273.8	280.1	291.3	306.4	314.0
55°	247.7	251.9	264.1	278.8	286.9
57.5°	220.6	224.5	238.3	250.8	259.2
60°	194.5	199.4	210.1	222.9	232.6
62.5°	169.4	174.6	183.8	195.0	205.9
65°	145.1	149.0	157.9	169.1	178.8
67.5°	121.6	125.0	133.9	141.7	151.9
70°	97.9	102.3	108.8	116.4	122.9
72.5°	78.8	80.7	86.1	91.6	98.4
75°	58.2	61.3	65.8	68.9	72.8
77.5°	41.8	43.6	46.2	48.8	52.5
80°	27.9	28.7	31.1	31.6	34.5
82.5°	17.0	17.5	18.0	18.3	19.3
85°	9.1	9.1	9.1	8.6	8.6
87.5°	5.2	5.2	4.4	3.7	2.6
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)