

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: P554471

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-93-87-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: P554471
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-93-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

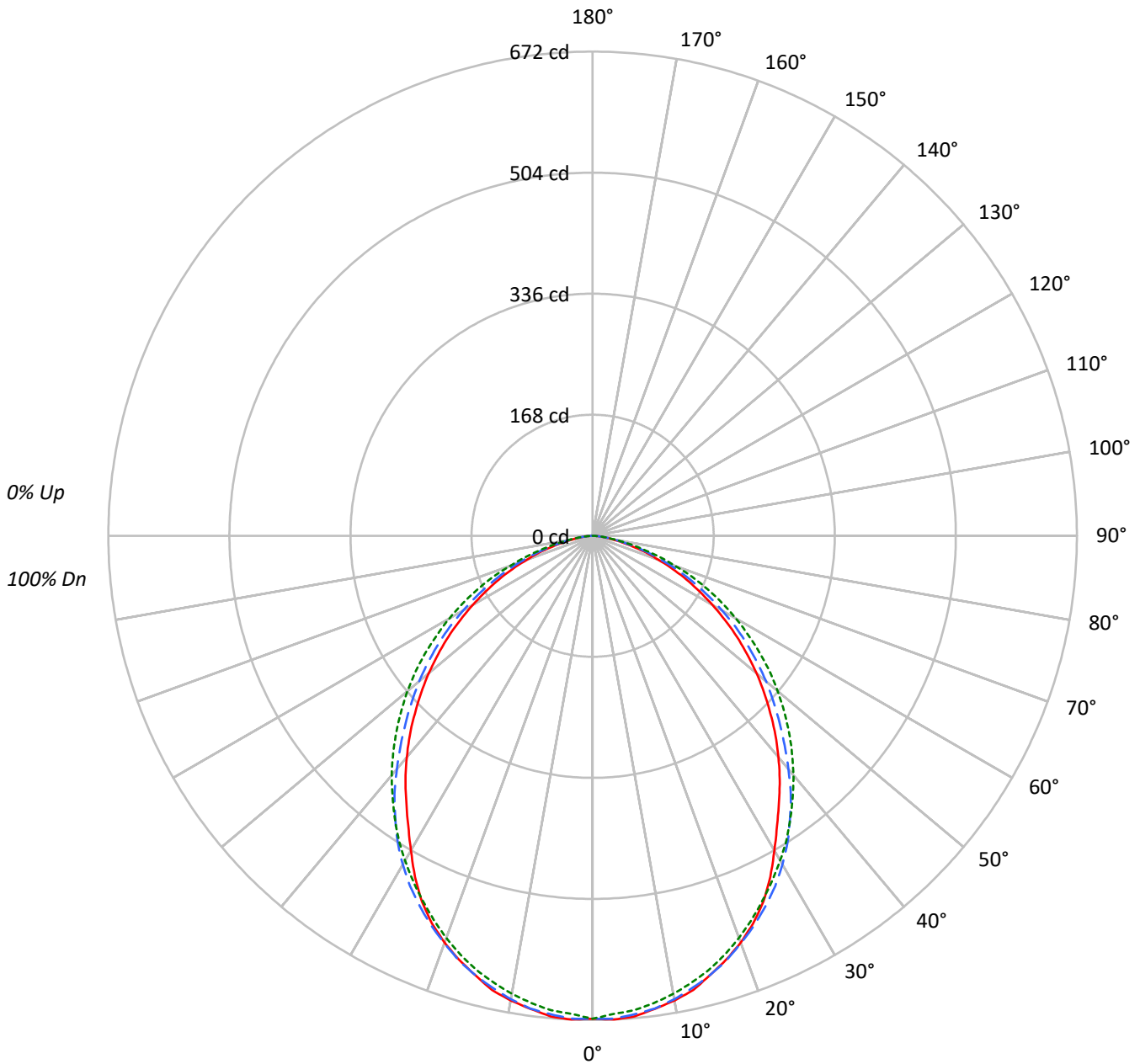
Lumens per Lamp: N/A
Luminaire Lumens: 1550.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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	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°	3608	3608	3608
5°	3618	3602	3572
10°	3579	3569	3528
15°	3515	3515	3475
20°	3441	3446	3401
25°	3328	3369	3315
30°	3133	3274	3235
35°	2961	3139	3144
40°	2817	2969	3047
45°	2656	2790	2933
50°	2486	2628	2807
55°	2293	2445	2655
60°	2066	2231	2470
65°	1824	1984	2246
70°	1520	1690	1909
75°	1194	1350	1493
80°	855	948	1054
85°	556	556	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	4.1
10°-20°	177.3	11.4
20°-30°	259.1	16.7
30°-40°	294.1	19.0
40°-50°	283.9	18.3
50°-60°	234.2	15.1
60°-70°	156.0	10.1
70°-80°	69.8	4.5
80°-90°	12.5	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°	499.5	32.2
0°-40°	793.6	51.2
0°-60°	1311.8	84.6
0°-90°	1550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	670	669	667	663	661	63
15°	631	632	631	628	624	178
25°	560	565	567	563	558	257
35°	451	457	478	480	478	282
45°	349	355	366	383	385	269
55°	244	248	261	275	283	218
65°	143	147	156	167	176	142
75°	57	60	65	68	72	63
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	670.3	670.3	670.3	670.3	670.3
2.5°	672.1	672.4	670.9	666.7	664.2
5°	669.6	669.3	666.7	663.1	661.1
7.5°	662.1	662.6	661.8	656.7	653.9
10°	654.9	655.1	653.1	649.0	645.6
12.5°	645.6	645.4	642.5	640.5	635.1
15°	630.9	632.5	630.9	628.1	623.7
17.5°	616.8	616.8	617.8	612.9	609.6
20°	600.8	601.6	601.6	597.7	593.9
22.5°	582.3	584.6	585.4	581.2	576.6
25°	560.4	564.8	567.3	563.2	558.3
27.5°	533.8	540.5	548.3	545.2	539.8
30°	504.2	514.0	526.9	524.3	520.5
32.5°	476.2	485.9	503.7	502.7	500.6
35°	450.7	456.8	477.7	480.3	478.5
37.5°	426.5	432.1	451.7	457.6	456.1
40°	401.0	407.1	422.6	433.2	433.7
42.5°	375.7	381.7	394.3	409.5	409.5
45°	348.9	354.9	366.5	383.2	385.3
47.5°	322.7	328.9	340.2	356.9	360.3
50°	296.9	302.6	313.9	330.1	335.3
52.5°	270.1	276.3	287.4	302.3	309.8
55°	244.4	248.5	260.6	275.0	283.0
57.5°	217.6	221.5	235.1	247.5	255.7
60°	191.9	196.7	207.3	219.9	229.5
62.5°	167.1	172.3	181.3	192.4	203.2
65°	143.2	147.0	155.8	166.9	176.4
67.5°	120.0	123.4	132.1	139.8	149.9
70°	96.6	100.9	107.4	114.9	121.3
72.5°	77.8	79.6	85.0	90.4	97.1
75°	57.4	60.5	64.9	68.0	71.8
77.5°	41.2	43.0	45.6	48.2	51.8
80°	27.6	28.3	30.6	31.2	34.0
82.5°	16.7	17.3	17.8	18.0	19.1
85°	9.0	9.0	9.0	8.5	8.5
87.5°	5.2	5.2	4.4	3.6	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)