

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: P554499

Luminaire Tested: **FUSL-12-2-LD4-1STD-40-UNV-81-85-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: P554499
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-40-UNV-81-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187
CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

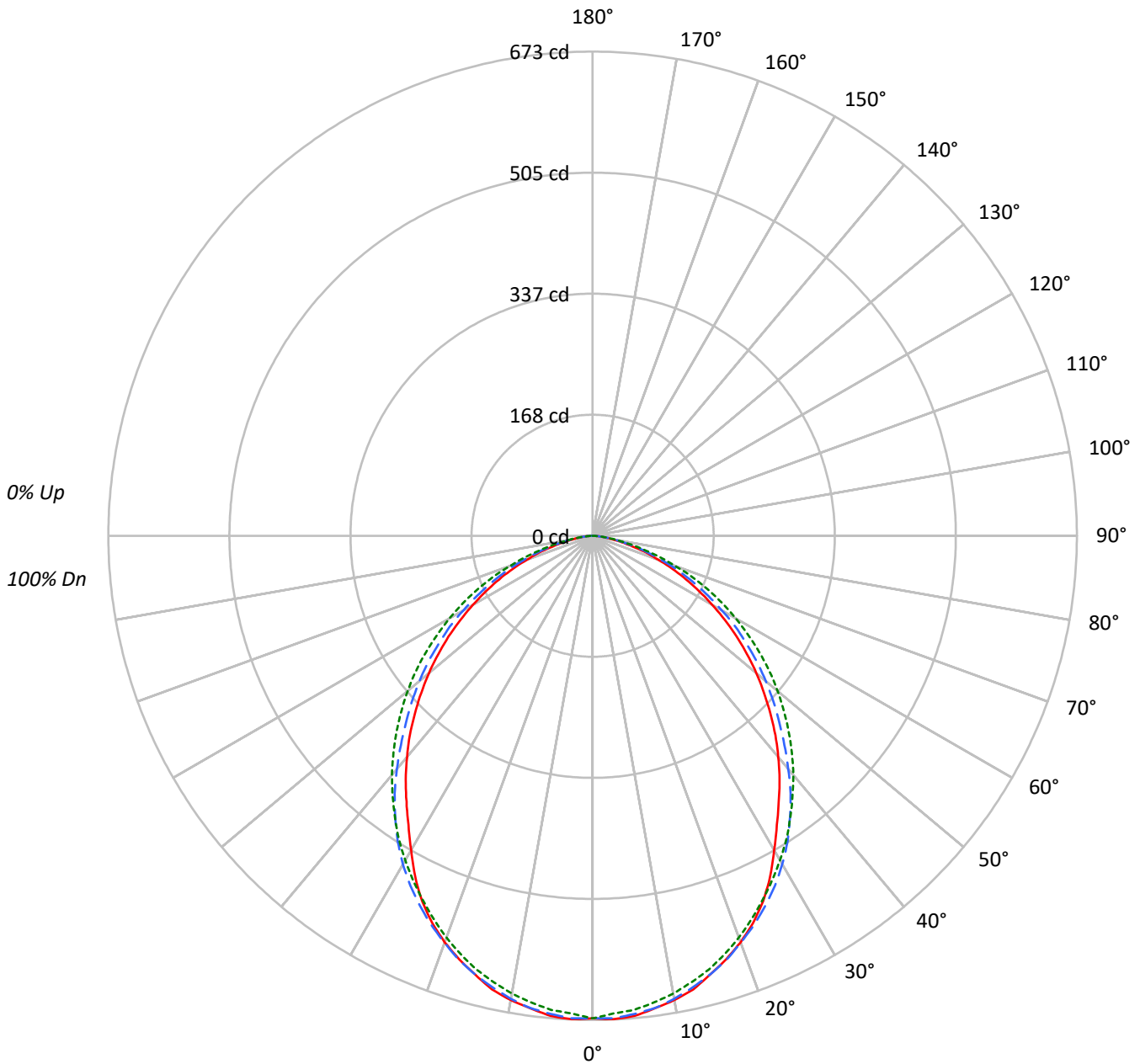
Lumens per Lamp: N/A
Luminaire Lumens: 1551.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (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°	3610	3610	3610
5°	3620	3605	3574
10°	3581	3571	3530
15°	3517	3517	3477
20°	3443	3448	3403
25°	3330	3371	3318
30°	3136	3276	3237
35°	2963	3141	3146
40°	2819	2971	3049
45°	2658	2791	2934
50°	2488	2630	2809
55°	2294	2447	2657
60°	2067	2232	2471
65°	1825	1985	2248
70°	1520	1692	1910
75°	1196	1350	1495
80°	855	951	1054
85°	556	556	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	4.1
10°-20°	177.4	11.4
20°-30°	259.3	16.7
30°-40°	294.3	19.0
40°-50°	284.1	18.3
50°-60°	234.4	15.1
60°-70°	156.1	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°	499.8	32.2
0°-40°	794.1	51.2
0°-60°	1312.6	84.6
0°-90°	1551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	670	670	667	664	662	63
15°	631	633	631	628	624	178
25°	561	565	568	564	559	257
35°	451	457	478	481	479	283
45°	349	355	367	383	386	269
55°	244	249	261	275	283	218
65°	143	147	156	167	176	142
75°	58	61	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°	670.8	670.8	670.8	670.8	670.8
2.5°	672.6	672.8	671.3	667.2	664.6
5°	670.0	669.7	667.2	663.6	661.5
7.5°	662.5	663.0	662.3	657.1	654.3
10°	655.3	655.6	653.5	649.4	646.0
12.5°	646.0	645.8	642.9	640.9	635.5
15°	631.3	632.9	631.3	628.5	624.1
17.5°	617.2	617.2	618.2	613.3	610.0
20°	601.2	602.0	602.0	598.1	594.2
22.5°	582.6	585.0	585.7	581.6	577.0
25°	560.7	565.1	567.7	563.6	558.7
27.5°	534.2	540.9	548.6	545.5	540.1
30°	504.6	514.3	527.2	524.7	520.8
32.5°	476.5	486.3	504.0	503.0	500.9
35°	451.0	457.1	478.0	480.6	478.8
37.5°	426.7	432.4	452.0	457.9	456.4
40°	401.2	407.4	422.9	433.4	434.0
42.5°	376.0	381.9	394.5	409.7	409.7
45°	349.2	355.1	366.7	383.4	385.5
47.5°	322.9	329.1	340.4	357.2	360.5
50°	297.1	302.8	314.1	330.4	335.5
52.5°	270.3	276.5	287.6	302.5	310.0
55°	244.5	248.7	260.8	275.2	283.2
57.5°	217.7	221.6	235.3	247.6	255.9
60°	192.0	196.9	207.4	220.1	229.6
62.5°	167.2	172.4	181.4	192.5	203.3
65°	143.3	147.1	155.9	167.0	176.5
67.5°	120.1	123.4	132.2	139.9	150.0
70°	96.6	101.0	107.5	114.9	121.4
72.5°	77.8	79.6	85.0	90.4	97.1
75°	57.5	60.6	64.9	68.0	71.9
77.5°	41.2	43.0	45.6	48.2	51.8
80°	27.6	28.3	30.7	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)