

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: P554058

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-81-94-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: P554058
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-50-UNV-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

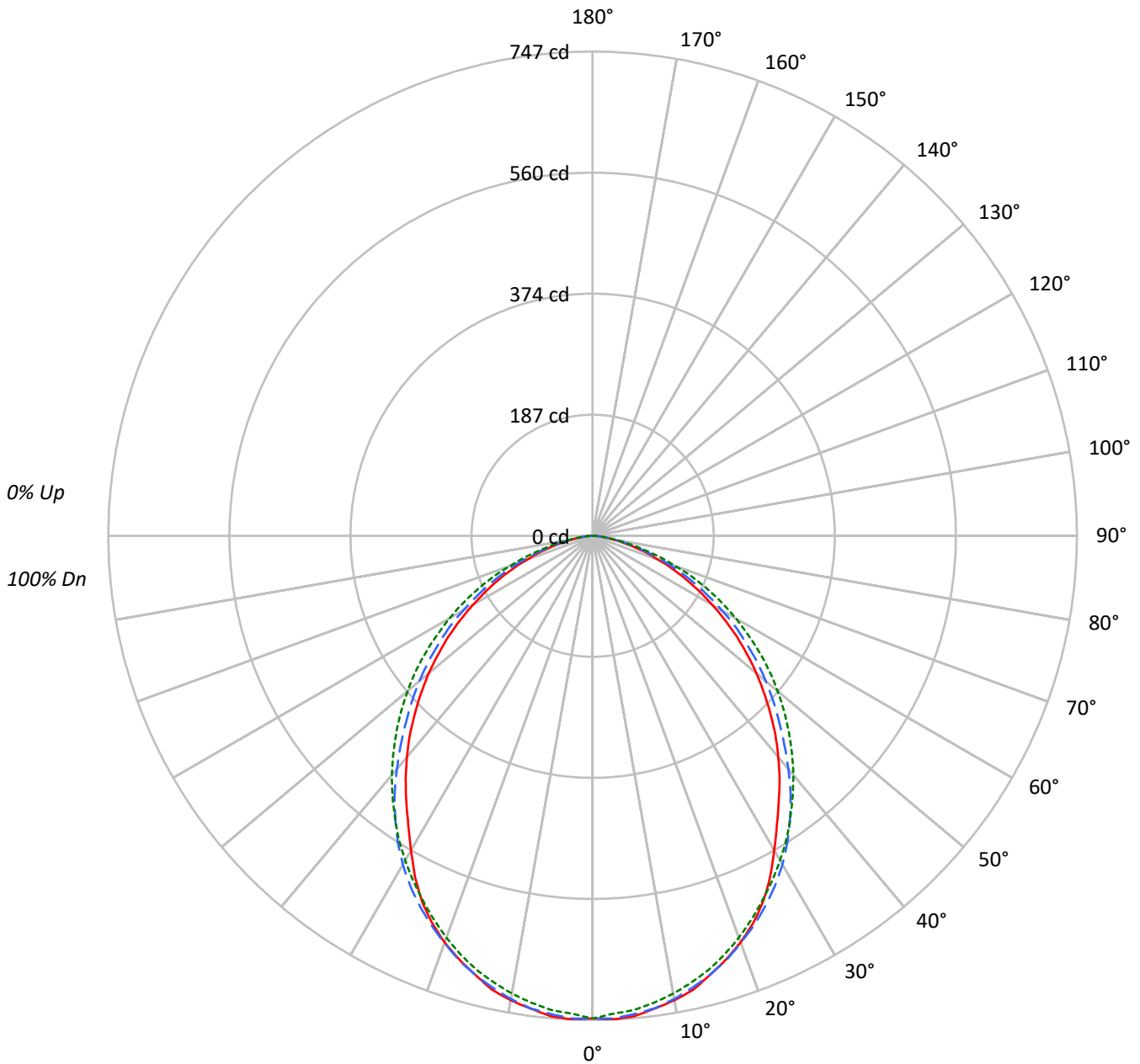
Lumens per Lamp: N/A
Luminaire Lumens: 1722.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (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°	4008	4008	4008
5°	4019	4002	3968
10°	3976	3965	3920
15°	3905	3905	3861
20°	3823	3828	3778
25°	3697	3743	3684
30°	3481	3638	3593
35°	3290	3487	3493
40°	3130	3299	3385
45°	2951	3099	3258
50°	2762	2920	3119
55°	2548	2716	2950
60°	2294	2479	2744
65°	2026	2204	2496
70°	1688	1877	2121
75°	1327	1499	1659
80°	948	1054	1172
85°	618	618	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	4.1
10°-20°	197.0	11.4
20°-30°	287.9	16.7
30°-40°	326.7	19.0
40°-50°	315.4	18.3
50°-60°	260.2	15.1
60°-70°	173.3	10.1
70°-80°	77.5	4.5
80°-90°	13.9	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°	554.9	32.2
0°-40°	881.7	51.2
0°-60°	1457.3	84.6
0°-90°	1722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	745	745	745	745	745	
5°	744	744	741	737	734	70
15°	701	703	701	698	693	198
25°	623	627	630	626	620	285
35°	501	508	531	534	532	314
45°	388	394	407	426	428	299
55°	272	276	290	306	314	242
65°	159	163	173	185	196	158
75°	64	67	72	76	80	70
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	744.7	744.7	744.7	744.7	744.7
2.5°	746.7	747.0	745.3	740.7	737.9
5°	743.9	743.6	740.7	736.7	734.4
7.5°	735.6	736.1	735.3	729.6	726.4
10°	727.6	727.8	725.6	721.0	717.3
12.5°	717.3	717.0	713.8	711.5	705.5
15°	700.9	702.7	700.9	697.8	692.9
17.5°	685.2	685.2	686.4	680.9	677.2
20°	667.5	668.3	668.3	664.0	659.7
22.5°	646.9	649.4	650.3	645.7	640.6
25°	622.6	627.4	630.3	625.7	620.3
27.5°	593.1	600.5	609.1	605.7	599.7
30°	560.2	571.1	585.4	582.5	578.2
32.5°	529.0	539.9	559.6	558.5	556.2
35°	500.7	507.5	530.7	533.6	531.6
37.5°	473.8	480.1	501.8	508.4	506.7
40°	445.5	452.3	469.5	481.2	481.8
42.5°	417.4	424.0	438.0	454.9	454.9
45°	387.7	394.2	407.1	425.7	428.0
47.5°	358.5	365.4	377.9	396.5	400.3
50°	329.9	336.2	348.8	366.8	372.5
52.5°	300.1	307.0	319.3	335.9	344.2
55°	271.5	276.1	289.5	305.6	314.4
57.5°	241.8	246.0	261.2	274.9	284.1
60°	213.1	218.6	230.3	244.3	254.9
62.5°	185.7	191.4	201.4	213.7	225.7
65°	159.1	163.4	173.1	185.4	196.0
67.5°	133.3	137.0	146.8	155.4	166.5
70°	107.3	112.2	119.3	127.6	134.8
72.5°	86.4	88.4	94.4	100.4	107.9
75°	63.8	67.2	72.1	75.5	79.8
77.5°	45.8	47.8	50.6	53.5	57.5
80°	30.6	31.5	34.0	34.6	37.8
82.5°	18.6	19.2	19.7	20.0	21.2
85°	10.0	10.0	10.0	9.4	9.4
87.5°	5.7	5.7	4.9	4.0	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)