

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: P555106

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-93-85-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: P555106
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-LD4-2LO-50-UNV-93-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

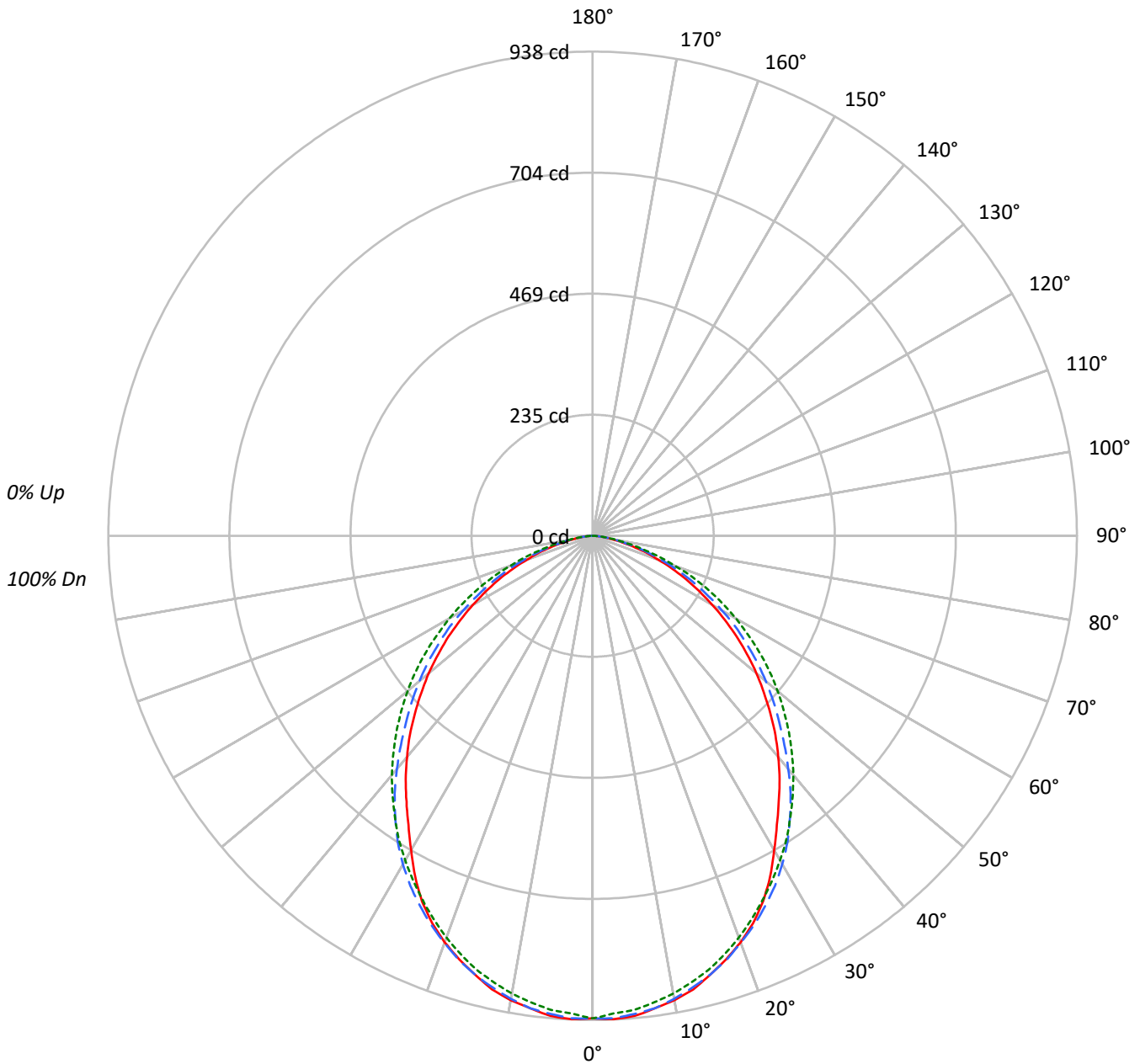
Lumens per Lamp: N/A
Luminaire Lumens: 2162.0 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	5032	5032	5032
5°	5045	5024	4982
10°	4992	4978	4921
15°	4904	4904	4847
20°	4800	4806	4744
25°	4641	4699	4625
30°	4371	4567	4512
35°	4130	4378	4385
40°	3929	4142	4250
45°	3704	3890	4090
50°	3468	3666	3916
55°	3199	3411	3704
60°	2880	3113	3446
65°	2543	2767	3134
70°	2120	2357	2662
75°	1666	1882	2084
80°	1190	1323	1469
85°	778	778	735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	4.1
10°-20°	247.3	11.4
20°-30°	361.4	16.7
30°-40°	410.2	19.0
40°-50°	396.0	18.3
50°-60°	326.7	15.1
60°-70°	217.6	10.1
70°-80°	97.3	4.5
80°-90°	17.4	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°	696.7	32.2
0°-40°	1107.0	51.2
0°-60°	1829.7	84.6
0°-90°	2162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	934	934	930	925	922	88
15°	880	882	880	876	870	248
25°	782	788	791	786	779	358
35°	629	637	666	670	667	394
45°	487	495	511	534	537	376
55°	341	347	364	384	395	304
65°	200	205	217	233	246	198
75°	80	84	90	95	100	88
85°	13	13	13	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.0	935.0	935.0	935.0	935.0
2.5°	937.5	937.9	935.7	930.0	926.4
5°	933.9	933.6	930.0	925.0	922.1
7.5°	923.5	924.2	923.2	916.0	912.0
10°	913.5	913.8	910.9	905.2	900.5
12.5°	900.5	900.2	896.2	893.3	885.8
15°	880.1	882.2	880.1	876.1	870.0
17.5°	860.3	860.3	861.7	854.9	850.2
20°	838.0	839.1	839.1	833.7	828.3
22.5°	812.2	815.4	816.5	810.7	804.3
25°	781.6	787.7	791.3	785.6	778.8
27.5°	744.6	754.0	764.7	760.4	752.9
30°	703.3	717.0	734.9	731.3	726.0
32.5°	664.2	677.8	702.6	701.2	698.3
35°	628.6	637.2	666.3	669.9	667.4
37.5°	594.8	602.7	630.0	638.3	636.2
40°	559.3	567.9	589.5	604.2	604.9
42.5°	524.1	532.3	549.9	571.1	571.1
45°	486.7	495.0	511.1	534.5	537.4
47.5°	450.1	458.7	474.5	497.9	502.5
50°	414.2	422.1	437.9	460.5	467.7
52.5°	376.8	385.4	400.9	421.7	432.1
55°	340.9	346.6	363.5	383.6	394.8
57.5°	303.5	308.9	328.0	345.2	356.7
60°	267.6	274.4	289.2	306.8	320.1
62.5°	233.1	240.3	252.9	268.3	283.4
65°	199.7	205.1	217.3	232.8	246.1
67.5°	167.4	172.1	184.3	195.0	209.1
70°	134.7	140.8	149.8	160.2	169.2
72.5°	108.5	111.0	118.5	126.1	135.4
75°	80.1	84.4	90.5	94.8	100.2
77.5°	57.5	60.0	63.6	67.2	72.2
80°	38.4	39.5	42.7	43.5	47.4
82.5°	23.3	24.1	24.8	25.1	26.6
85°	12.6	12.6	12.6	11.9	11.9
87.5°	7.2	7.2	6.1	5.0	3.6
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)