

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: P554885

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-81-86-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: P554885
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-30-UNV-81-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

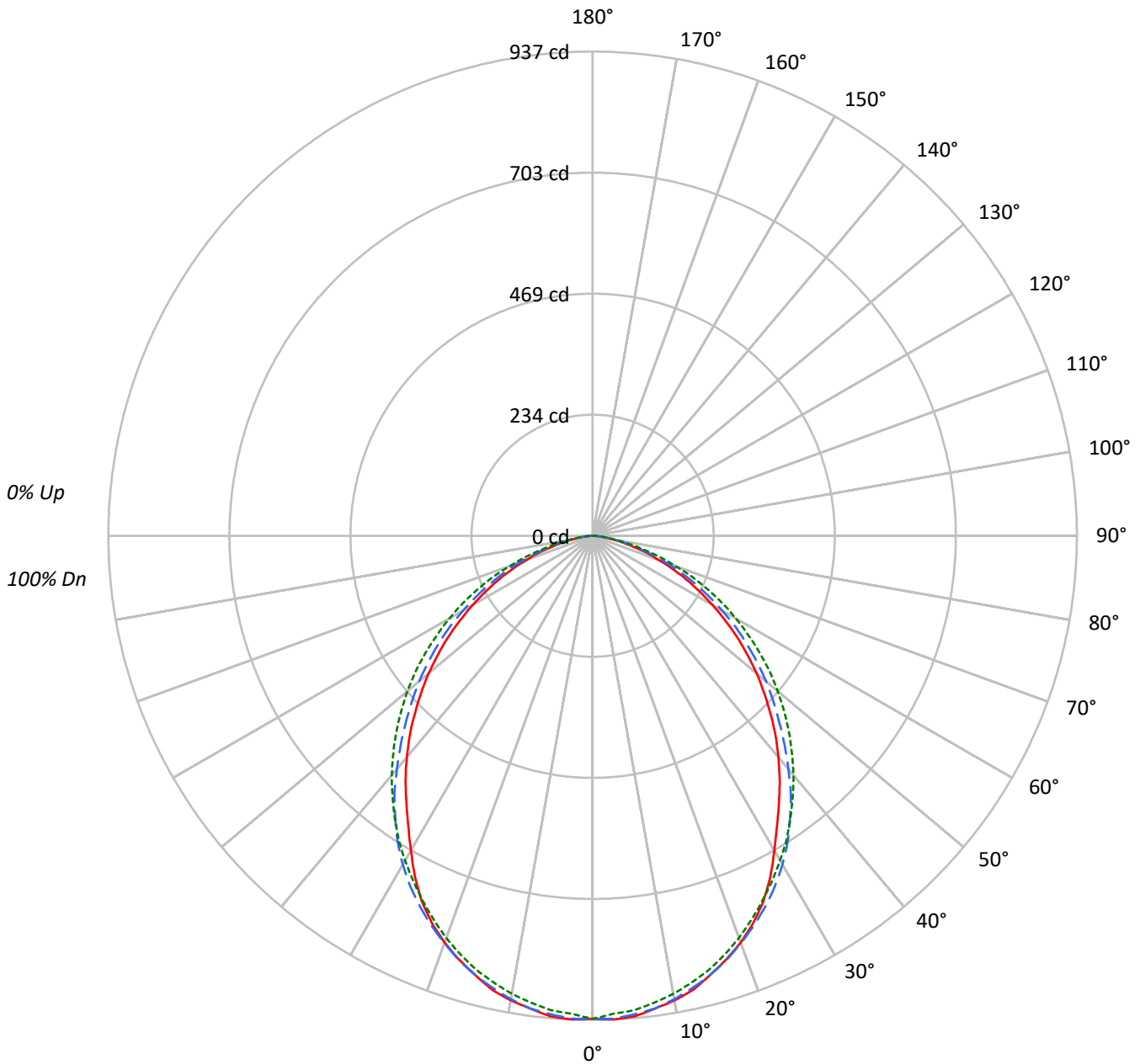
Lumens per Lamp: N/A
Luminaire Lumens: 2161.0 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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°	5030	5030	5030
5°	5043	5022	4979
10°	4990	4976	4919
15°	4901	4901	4845
20°	4797	4804	4742
25°	4640	4697	4622
30°	4369	4565	4509
35°	4128	4376	4383
40°	3927	4140	4248
45°	3703	3889	4088
50°	3466	3665	3914
55°	3197	3409	3703
60°	2879	3111	3443
65°	2542	2766	3131
70°	2118	2356	2661
75°	1666	1882	2084
80°	1190	1323	1469
85°	778	778	729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	4.1
10°-20°	247.2	11.4
20°-30°	361.2	16.7
30°-40°	410.0	19.0
40°-50°	395.8	18.3
50°-60°	326.5	15.1
60°-70°	217.4	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°	696.4	32.2
0°-40°	1106.5	51.2
0°-60°	1828.8	84.6
0°-90°	2161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	934	933	930	924	922	88
15°	880	882	880	876	870	248
25°	781	787	791	785	778	358
35°	628	637	666	670	667	394
45°	486	495	511	534	537	375
55°	341	346	363	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°	934.6	934.6	934.6	934.6	934.6
2.5°	937.1	937.4	935.3	929.6	926.0
5°	933.5	933.1	929.6	924.5	921.7
7.5°	923.1	923.8	922.7	915.5	911.6
10°	913.0	913.4	910.5	904.8	900.1
12.5°	900.1	899.7	895.8	892.9	885.4
15°	879.6	881.8	879.6	875.7	869.6
17.5°	859.9	859.9	861.3	854.5	849.8
20°	837.6	838.7	838.7	833.3	827.9
22.5°	811.8	815.0	816.1	810.3	803.9
25°	781.3	787.4	791.0	785.2	778.4
27.5°	744.3	753.6	764.4	760.1	752.5
30°	703.0	716.6	734.6	731.0	725.6
32.5°	663.9	677.5	702.3	700.8	698.0
35°	628.3	636.9	666.0	669.6	667.1
37.5°	594.6	602.5	629.8	638.0	635.9
40°	559.0	567.6	589.2	603.9	604.6
42.5°	523.8	532.1	549.7	570.9	570.9
45°	486.5	494.8	510.9	534.2	537.1
47.5°	449.9	458.5	474.3	497.6	502.3
50°	414.0	421.9	437.7	460.3	467.5
52.5°	376.6	385.2	400.7	421.5	431.9
55°	340.7	346.5	363.3	383.5	394.6
57.5°	303.4	308.8	327.8	345.0	356.5
60°	267.5	274.3	289.0	306.6	319.9
62.5°	233.0	240.2	252.8	268.2	283.3
65°	199.6	205.0	217.2	232.7	245.9
67.5°	167.3	172.0	184.2	195.0	209.0
70°	134.6	140.7	149.7	160.1	169.1
72.5°	108.4	110.9	118.5	126.0	135.4
75°	80.1	84.4	90.5	94.8	100.2
77.5°	57.4	60.0	63.5	67.1	72.2
80°	38.4	39.5	42.7	43.4	47.4
82.5°	23.3	24.1	24.8	25.1	26.6
85°	12.6	12.6	12.6	11.8	11.8
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)