

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: P554893

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-81-96-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: P554893
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-81-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

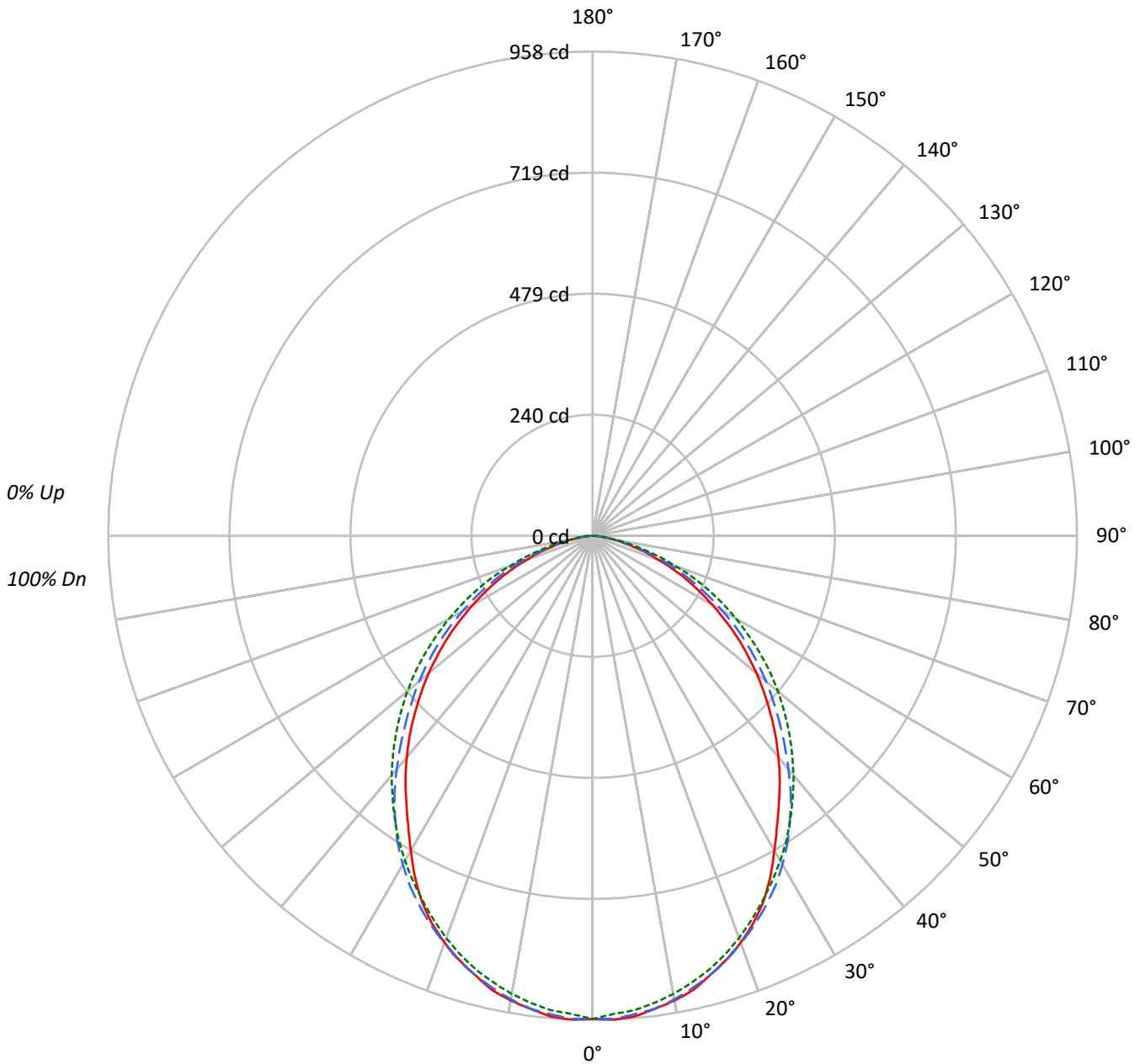
Lumens per Lamp: N/A
Luminaire Lumens: 2210.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5144	5144	5144
5°	5158	5136	5092
10°	5103	5089	5031
15°	5012	5012	4955
20°	4906	4912	4849
25°	4745	4804	4727
30°	4468	4668	4612
35°	4222	4475	4482
40°	4017	4233	4344
45°	3787	3977	4181
50°	3545	3748	4003
55°	3270	3487	3786
60°	2944	3182	3522
65°	2600	2828	3203
70°	2167	2409	2721
75°	1703	1923	2129
80°	1218	1354	1503
85°	797	797	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	4.1
10°-20°	252.8	11.4
20°-30°	369.4	16.7
30°-40°	419.3	19.0
40°-50°	404.8	18.3
50°-60°	333.9	15.1
60°-70°	222.4	10.1
70°-80°	99.5	4.5
80°-90°	17.8	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°	712.2	32.2
0°-40°	1131.6	51.2
0°-60°	1870.3	84.6
0°-90°	2210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	955	954	951	946	942	90
15°	900	902	900	896	889	254
25°	799	805	809	803	796	366
35°	643	651	681	685	682	403
45°	498	506	522	546	549	384
55°	348	354	372	392	404	311
65°	204	210	222	238	252	202
75°	82	86	92	97	102	90
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°	955.8	955.8	955.8	955.8	955.8
2.5°	958.3	958.7	956.5	950.6	947.0
5°	954.7	954.3	950.6	945.5	942.5
7.5°	944.0	944.8	943.7	936.3	932.3
10°	933.7	934.1	931.2	925.3	920.5
12.5°	920.5	920.2	916.1	913.2	905.5
15°	899.6	901.8	899.6	895.6	889.3
17.5°	879.4	879.4	880.9	873.9	869.1
20°	856.6	857.7	857.7	852.2	846.7
22.5°	830.2	833.5	834.6	828.7	822.1
25°	799.0	805.2	808.9	803.0	796.0
27.5°	761.2	770.7	781.7	777.3	769.6
30°	718.9	732.9	751.2	747.6	742.1
32.5°	678.9	692.9	718.2	716.7	713.8
35°	642.6	651.4	681.1	684.8	682.2
37.5°	608.0	616.1	644.0	652.5	650.3
40°	571.7	580.5	602.5	617.6	618.3
42.5°	535.7	544.2	562.2	583.8	583.8
45°	497.5	506.0	522.5	546.4	549.3
47.5°	460.1	468.9	485.0	508.9	513.7
50°	423.4	431.4	447.6	470.7	478.1
52.5°	385.2	394.0	409.8	431.1	441.7
55°	348.5	354.3	371.6	392.1	403.5
57.5°	310.3	315.8	335.2	352.9	364.6
60°	273.5	280.5	295.6	313.6	327.2
62.5°	238.3	245.6	258.5	274.3	289.7
65°	204.2	209.7	222.1	237.9	251.5
67.5°	171.1	175.9	188.4	199.4	213.7
70°	137.7	143.9	153.1	163.8	172.9
72.5°	110.9	113.5	121.2	128.9	138.4
75°	81.9	86.3	92.5	96.9	102.4
77.5°	58.7	61.3	65.0	68.7	73.8
80°	39.3	40.4	43.7	44.4	48.5
82.5°	23.9	24.6	25.3	25.7	27.2
85°	12.9	12.9	12.9	12.1	12.1
87.5°	7.3	7.3	6.2	5.1	3.7
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)