

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: P555051

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-93-94-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: P555051
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-40-UNV-93-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

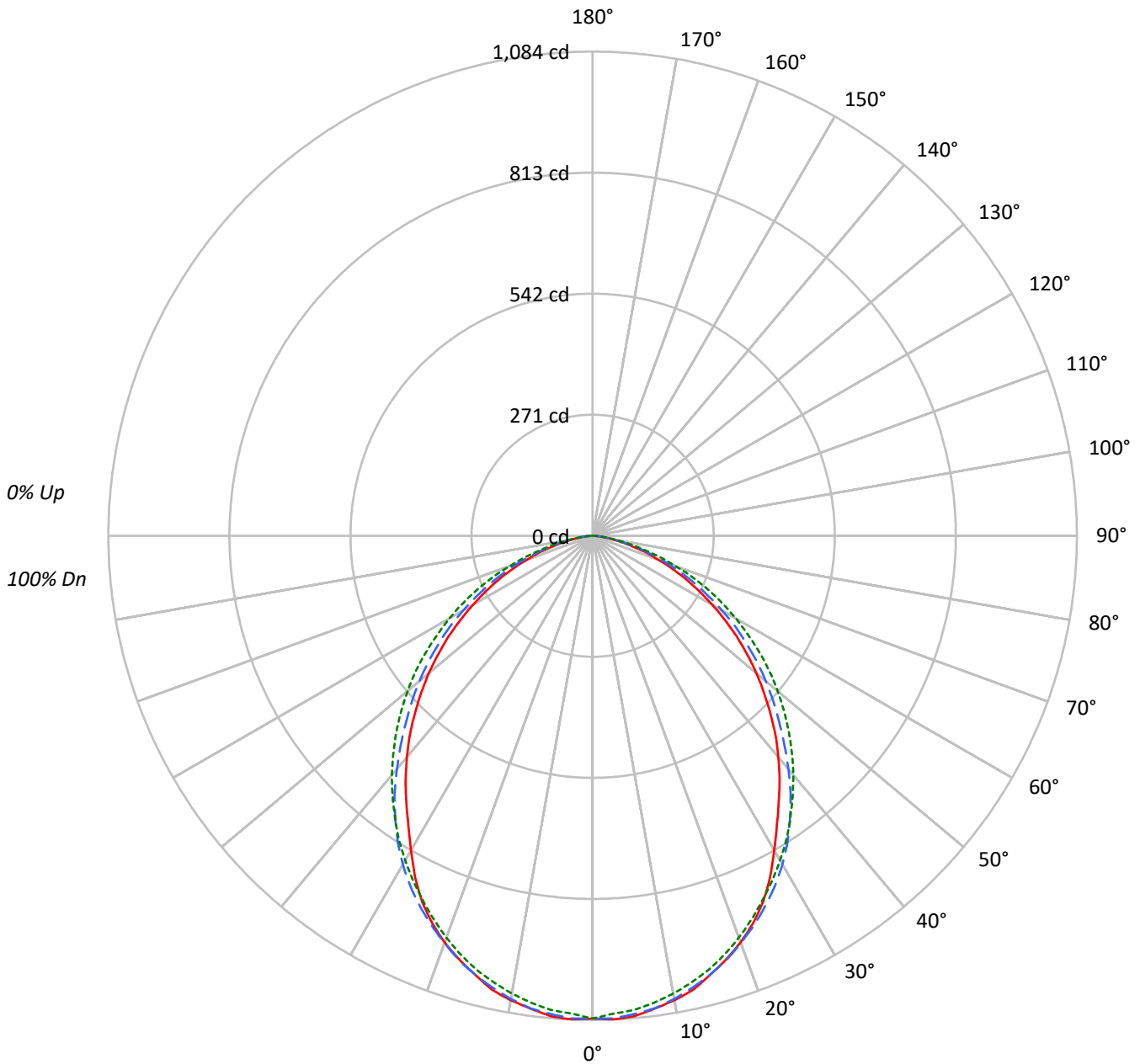
Lumens per Lamp: N/A
Luminaire Lumens: 2499.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5817	5817	5817
5°	5832	5807	5758
10°	5770	5754	5689
15°	5668	5668	5603
20°	5548	5555	5483
25°	5365	5432	5345
30°	5052	5279	5215
35°	4774	5060	5068
40°	4542	4787	4912
45°	4282	4497	4727
50°	4008	4237	4526
55°	3697	3943	4282
60°	3329	3597	3982
65°	2939	3199	3622
70°	2450	2724	3078
75°	1926	2175	2408
80°	1376	1531	1698
85°	895	895	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	4.1
10°-20°	285.9	11.4
20°-30°	417.7	16.7
30°-40°	474.2	19.0
40°-50°	457.8	18.3
50°-60°	377.6	15.1
60°-70°	251.5	10.1
70°-80°	112.5	4.5
80°-90°	20.1	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°	805.4	32.2
0°-40°	1279.5	51.2
0°-60°	2114.9	84.6
0°-90°	2499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2499.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1080	1079	1075	1069	1066	102
15°	1017	1020	1017	1013	1006	287
25°	904	910	915	908	900	414
35°	727	737	770	774	771	455
45°	563	572	591	618	621	434
55°	394	401	420	443	456	352
65°	231	237	251	269	284	229
75°	93	98	105	110	116	101
85°	14	14	14	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.8	1080.8	1080.8	1080.8	1080.8
2.5°	1083.7	1084.1	1081.6	1074.9	1070.8
5°	1079.5	1079.1	1074.9	1069.1	1065.8
7.5°	1067.5	1068.3	1067.1	1058.7	1054.2
10°	1055.8	1056.3	1052.9	1046.3	1040.9
12.5°	1040.9	1040.5	1035.9	1032.6	1023.9
15°	1017.2	1019.7	1017.2	1012.7	1005.6
17.5°	994.4	994.4	996.1	988.2	982.8
20°	968.7	969.9	969.9	963.7	957.4
22.5°	938.8	942.5	943.7	937.1	929.6
25°	903.5	910.5	914.7	908.0	900.1
27.5°	860.7	871.5	884.0	879.0	870.2
30°	813.0	828.7	849.5	845.3	839.1
32.5°	767.7	783.5	812.1	810.5	807.1
35°	726.6	736.6	770.2	774.3	771.4
37.5°	687.6	696.7	728.3	737.8	735.3
40°	646.5	656.4	681.3	698.4	699.2
42.5°	605.8	615.3	635.7	660.2	660.2
45°	562.6	572.1	590.8	617.8	621.1
47.5°	520.2	530.2	548.5	575.5	580.9
50°	478.7	487.9	506.1	532.3	540.6
52.5°	435.5	445.5	463.4	487.4	499.5
55°	394.0	400.7	420.2	443.4	456.3
57.5°	350.8	357.1	379.1	399.0	412.3
60°	309.3	317.2	334.2	354.6	369.9
62.5°	269.5	277.8	292.3	310.2	327.6
65°	230.8	237.1	251.2	269.0	284.4
67.5°	193.5	198.9	213.0	225.5	241.6
70°	155.7	162.8	173.1	185.2	195.6
72.5°	125.4	128.3	137.0	145.7	156.5
75°	92.6	97.6	104.6	109.6	115.8
77.5°	66.4	69.3	73.5	77.6	83.5
80°	44.4	45.7	49.4	50.2	54.8
82.5°	27.0	27.8	28.6	29.1	30.7
85°	14.5	14.5	14.5	13.7	13.7
87.5°	8.3	8.3	7.1	5.8	4.2
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)