

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: P555017

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-81-88-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: P555017
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-81-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

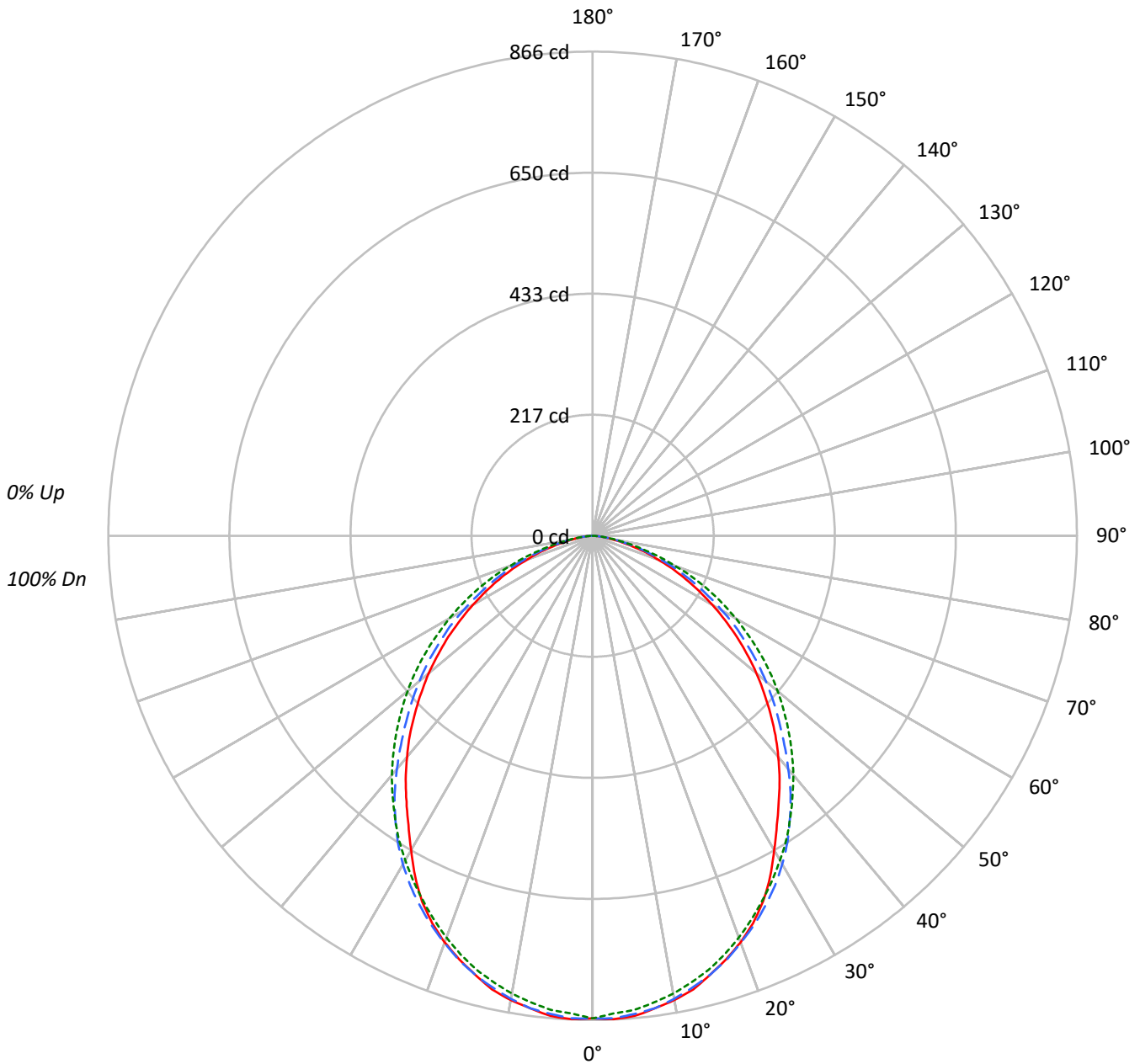
Lumens per Lamp: N/A
Luminaire Lumens: 1996.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4646	4646	4646
5°	4658	4639	4599
10°	4609	4596	4544
15°	4527	4527	4475
20°	4431	4437	4380
25°	4285	4339	4270
30°	4035	4217	4165
35°	3813	4042	4049
40°	3627	3823	3924
45°	3420	3592	3776
50°	3202	3385	3615
55°	2953	3149	3420
60°	2660	2874	3181
65°	2348	2555	2893
70°	1958	2176	2458
75°	1539	1738	1923
80°	1100	1224	1358
85°	716	716	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	4.1
10°-20°	228.3	11.4
20°-30°	333.7	16.7
30°-40°	378.7	19.0
40°-50°	365.6	18.3
50°-60°	301.6	15.1
60°-70°	200.9	10.1
70°-80°	89.9	4.5
80°-90°	16.1	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°	643.3	32.2
0°-40°	1022.0	51.2
0°-60°	1689.2	84.6
0°-90°	1996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1996.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	862	862	859	854	851	82
15°	812	814	812	809	803	229
25°	722	727	731	725	719	330
35°	580	588	615	618	616	364
45°	449	457	472	494	496	347
55°	315	320	336	354	364	281
65°	184	189	201	215	227	183
75°	74	78	84	88	92	81
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.2	863.2	863.2	863.2	863.2
2.5°	865.5	865.9	863.9	858.6	855.3
5°	862.2	861.9	858.6	853.9	851.3
7.5°	852.6	853.3	852.3	845.6	842.0
10°	843.3	843.7	841.0	835.7	831.4
12.5°	831.4	831.1	827.4	824.8	817.8
15°	812.5	814.5	812.5	808.8	803.2
17.5°	794.2	794.2	795.6	789.3	785.0
20°	773.7	774.7	774.7	769.7	764.7
22.5°	749.8	752.8	753.8	748.5	742.5
25°	721.6	727.3	730.6	725.3	719.0
27.5°	687.5	696.1	706.0	702.0	695.1
30°	649.3	661.9	678.5	675.2	670.2
32.5°	613.2	625.8	648.7	647.3	644.7
35°	580.3	588.3	615.2	618.5	616.2
37.5°	549.2	556.5	581.7	589.3	587.3
40°	516.3	524.3	544.2	557.8	558.5
42.5°	483.8	491.5	507.7	527.3	527.3
45°	449.4	457.0	471.9	493.5	496.1
47.5°	415.5	423.5	438.1	459.6	463.9
50°	382.4	389.7	404.3	425.1	431.8
52.5°	347.9	355.8	370.1	389.3	398.9
55°	314.7	320.0	335.6	354.2	364.5
57.5°	280.2	285.2	302.8	318.7	329.3
60°	247.1	253.4	267.0	283.2	295.5
62.5°	215.2	221.9	233.5	247.7	261.7
65°	184.4	189.4	200.6	214.9	227.2
67.5°	154.5	158.8	170.1	180.1	193.0
70°	124.4	130.0	138.3	147.9	156.2
72.5°	100.2	102.5	109.4	116.4	125.0
75°	74.0	77.9	83.6	87.5	92.5
77.5°	53.1	55.4	58.7	62.0	66.7
80°	35.5	36.5	39.5	40.1	43.8
82.5°	21.6	22.2	22.9	23.2	24.5
85°	11.6	11.6	11.6	10.9	10.9
87.5°	6.6	6.6	5.6	4.6	3.3
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)