

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: P555107

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-93-85-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: P555107
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
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

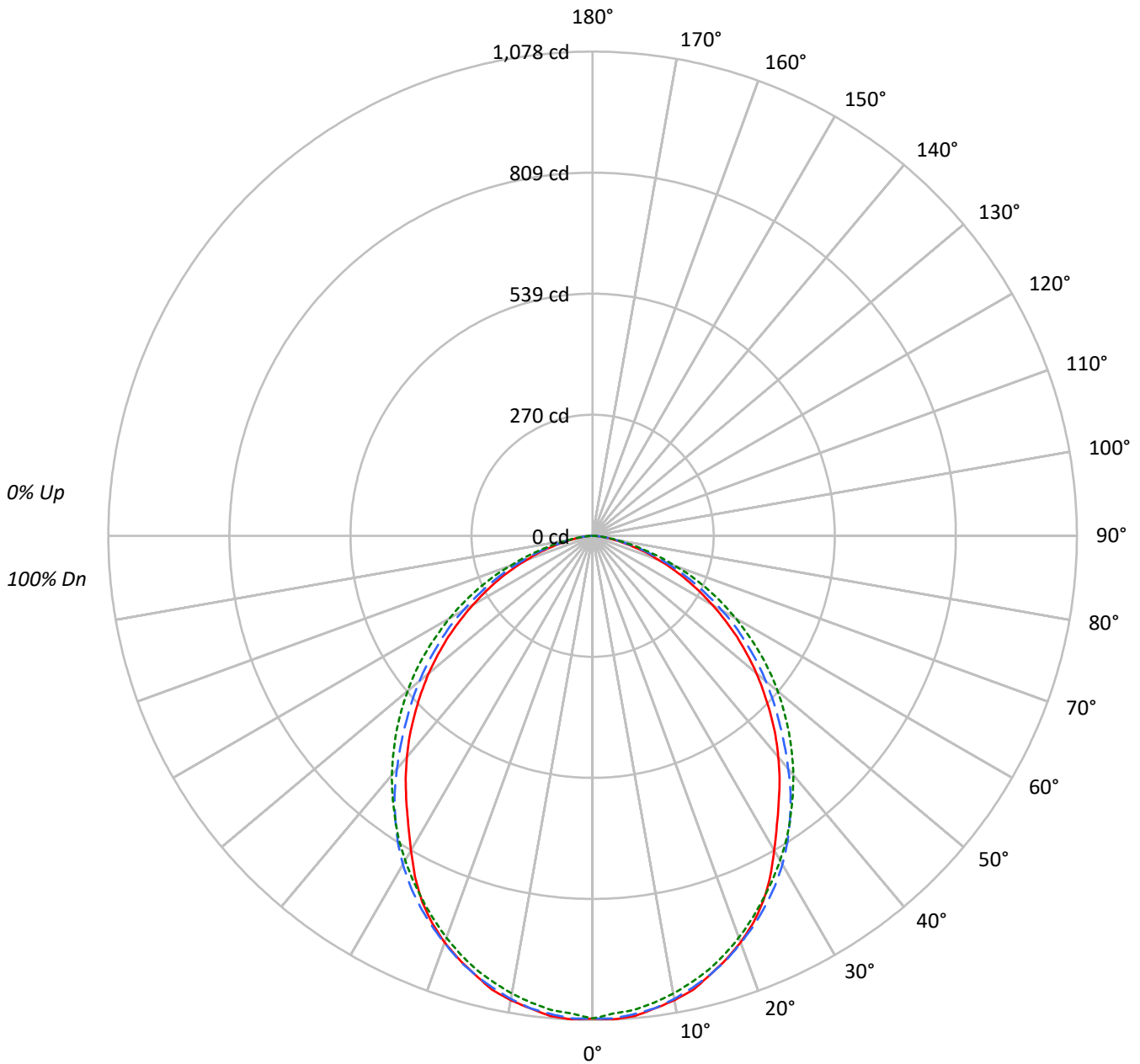
Lumens per Lamp: N/A
Luminaire Lumens: 2485.0 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5784	5784	5784
5°	5800	5775	5726
10°	5738	5722	5657
15°	5636	5636	5572
20°	5517	5524	5453
25°	5335	5402	5315
30°	5024	5249	5185
35°	4747	5032	5040
40°	4516	4760	4885
45°	4258	4472	4701
50°	3985	4214	4501
55°	3676	3920	4257
60°	3311	3578	3960
65°	2924	3181	3601
70°	2436	2710	3061
75°	1915	2163	2396
80°	1370	1522	1689
85°	895	895	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	4.1
10°-20°	284.3	11.4
20°-30°	415.4	16.7
30°-40°	471.5	19.0
40°-50°	455.2	18.3
50°-60°	375.5	15.1
60°-70°	250.1	10.1
70°-80°	111.9	4.5
80°-90°	20.0	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°	800.8	32.2
0°-40°	1272.4	51.2
0°-60°	2103.0	84.6
0°-90°	2485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1075	1075	1075	1075	1075	
5°	1074	1073	1069	1063	1060	102
15°	1012	1014	1012	1007	1000	285
25°	898	905	910	903	895	411
35°	722	732	766	770	767	453
45°	559	569	588	614	618	432
55°	392	398	418	441	454	350
65°	230	236	250	268	283	228
75°	92	97	104	109	115	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°	1074.7	1074.7	1074.7	1074.7	1074.7
2.5°	1077.6	1078.0	1075.5	1068.9	1064.8
5°	1073.5	1073.0	1068.9	1063.1	1059.8
7.5°	1061.5	1062.3	1061.1	1052.8	1048.3
10°	1049.9	1050.3	1047.0	1040.4	1035.1
12.5°	1035.1	1034.7	1030.1	1026.8	1018.1
15°	1011.5	1014.0	1011.5	1007.0	1000.0
17.5°	988.8	988.8	990.5	982.6	977.3
20°	963.2	964.5	964.5	958.3	952.1
22.5°	933.5	937.2	938.5	931.8	924.4
25°	898.4	905.4	909.6	902.9	895.1
27.5°	855.9	866.6	879.0	874.0	865.4
30°	808.4	824.1	844.7	840.6	834.4
32.5°	763.4	779.1	807.6	805.9	802.6
35°	722.5	732.4	765.9	770.0	767.1
37.5°	683.7	692.8	724.2	733.7	731.2
40°	642.8	652.7	677.5	694.4	695.3
42.5°	602.4	611.9	632.1	656.5	656.5
45°	559.4	568.9	587.5	614.3	617.7
47.5°	517.3	527.2	545.4	572.2	577.6
50°	476.0	485.1	503.3	529.3	537.6
52.5°	433.1	443.0	460.8	484.7	496.7
55°	391.8	398.4	417.8	440.9	453.7
57.5°	348.9	355.1	376.9	396.8	410.0
60°	307.6	315.4	332.4	352.6	367.9
62.5°	268.0	276.2	290.7	308.4	325.8
65°	229.6	235.7	249.8	267.5	282.8
67.5°	192.4	197.8	211.8	224.2	240.3
70°	154.8	161.8	172.2	184.1	194.5
72.5°	124.7	127.6	136.2	144.9	155.7
75°	92.1	97.0	104.0	109.0	115.2
77.5°	66.1	68.9	73.1	77.2	83.0
80°	44.2	45.4	49.1	50.0	54.5
82.5°	26.8	27.7	28.5	28.9	30.6
85°	14.5	14.5	14.5	13.6	13.6
87.5°	8.3	8.3	7.0	5.8	4.1
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)