

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: P554925

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-93-96-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: P554925
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-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

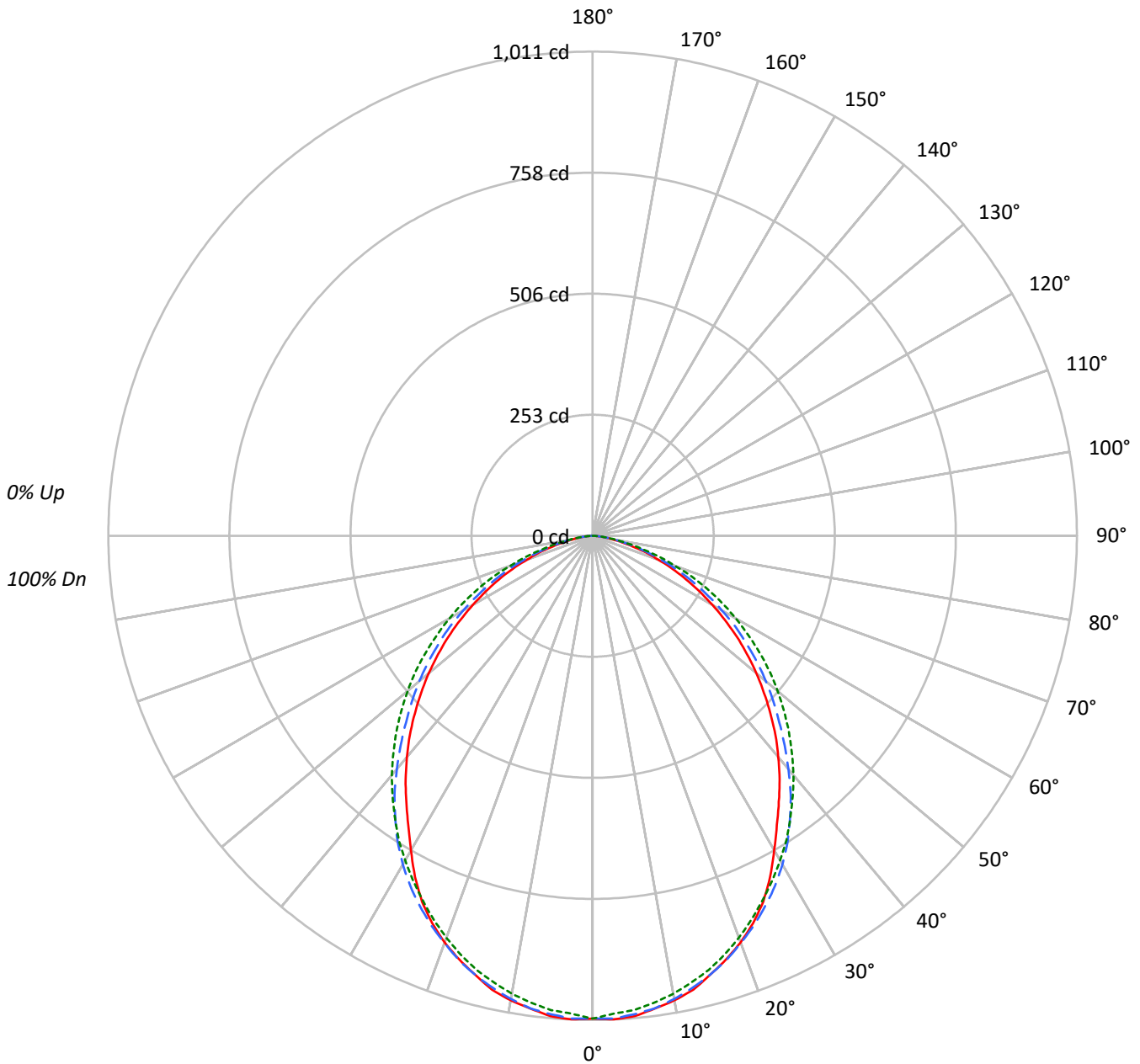
Lumens per Lamp: N/A
Luminaire Lumens: 2331.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5426	5426	5426
5°	5440	5417	5371
10°	5382	5367	5306
15°	5287	5287	5226
20°	5175	5182	5115
25°	5004	5067	4986
30°	4712	4924	4864
35°	4453	4720	4728
40°	4236	4465	4582
45°	3994	4195	4410
50°	3738	3953	4222
55°	3448	3677	3993
60°	3105	3356	3715
65°	2742	2984	3379
70°	2285	2541	2870
75°	1797	2030	2248
80°	1283	1429	1584
85°	840	840	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	4.1
10°-20°	266.6	11.4
20°-30°	389.7	16.7
30°-40°	442.3	19.0
40°-50°	427.0	18.3
50°-60°	352.2	15.1
60°-70°	234.5	10.1
70°-80°	105.0	4.5
80°-90°	18.8	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°	751.2	32.2
0°-40°	1193.5	51.2
0°-60°	1972.7	84.6
0°-90°	2331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1007	1006	1003	997	994	95
15°	949	951	949	945	938	267
25°	843	849	853	847	840	386
35°	678	687	718	722	720	425
45°	525	534	551	576	579	405
55°	368	374	392	414	426	328
65°	215	221	234	251	265	213
75°	86	91	98	102	108	94
85°	14	14	14	13	13	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1008.1	1008.1	1008.1	1008.1	1008.1
2.5°	1010.8	1011.2	1008.9	1002.7	998.8
5°	1006.9	1006.5	1002.7	997.3	994.2
7.5°	995.7	996.5	995.3	987.6	983.3
10°	984.9	985.2	982.1	976.0	970.9
12.5°	970.9	970.5	966.3	963.2	955.0
15°	948.8	951.2	948.8	944.6	938.0
17.5°	927.5	927.5	929.1	921.7	916.7
20°	903.5	904.7	904.7	898.9	893.1
22.5°	875.6	879.1	880.3	874.1	867.1
25°	842.7	849.3	853.2	847.0	839.6
27.5°	802.8	812.9	824.5	819.9	811.7
30°	758.3	773.0	792.4	788.5	782.7
32.5°	716.1	730.8	757.5	756.0	752.9
35°	677.7	687.0	718.4	722.3	719.6
37.5°	641.3	649.9	679.3	688.2	685.9
40°	603.0	612.3	635.5	651.4	652.2
42.5°	565.0	574.0	592.9	615.8	615.8
45°	524.8	533.7	551.1	576.3	579.4
47.5°	485.3	494.6	511.6	536.8	541.8
50°	446.5	455.1	472.1	496.5	504.2
52.5°	406.3	415.6	432.2	454.7	465.9
55°	367.5	373.7	391.9	413.6	425.6
57.5°	327.3	333.1	353.6	372.2	384.6
60°	288.5	295.9	311.8	330.7	345.1
62.5°	251.3	259.1	272.6	289.3	305.6
65°	215.3	221.1	234.3	251.0	265.3
67.5°	180.5	185.5	198.7	210.3	225.4
70°	145.2	151.8	161.5	172.7	182.4
72.5°	117.0	119.7	127.8	135.9	146.0
75°	86.4	91.0	97.6	102.2	108.1
77.5°	62.0	64.7	68.5	72.4	77.8
80°	41.4	42.6	46.1	46.9	51.1
82.5°	25.2	25.9	26.7	27.1	28.7
85°	13.6	13.6	13.6	12.8	12.8
87.5°	7.7	7.7	6.6	5.4	3.9
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)