

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: P554927

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-93-97-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: P554927
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-93-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

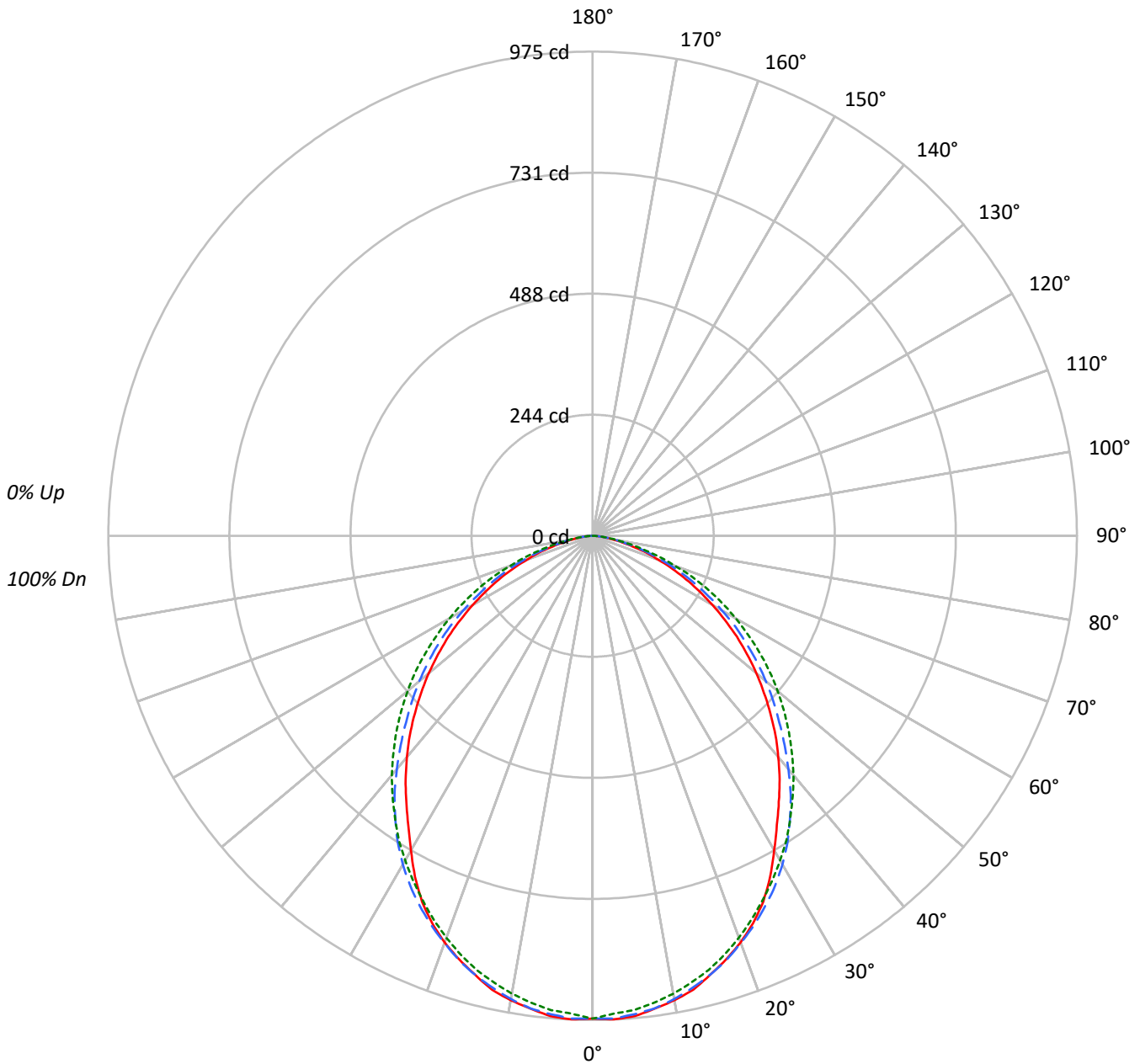
Lumens per Lamp: N/A
Luminaire Lumens: 2248.0 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5232	5232	5232
5°	5246	5224	5180
10°	5191	5176	5117
15°	5099	5099	5040
20°	4991	4997	4933
25°	4826	4886	4808
30°	4545	4749	4691
35°	4294	4552	4559
40°	4085	4306	4419
45°	3852	4045	4252
50°	3605	3812	4072
55°	3325	3547	3852
60°	2996	3237	3582
65°	2645	2878	3258
70°	2205	2450	2768
75°	1732	1957	2167
80°	1240	1376	1528
85°	809	809	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	4.1
10°-20°	257.2	11.4
20°-30°	375.8	16.7
30°-40°	426.6	19.0
40°-50°	411.8	18.3
50°-60°	339.7	15.1
60°-70°	226.2	10.1
70°-80°	101.2	4.5
80°-90°	18.1	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°	724.5	32.2
0°-40°	1151.0	51.2
0°-60°	1902.5	84.6
0°-90°	2248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2248.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	971	971	967	962	959	92
15°	915	917	915	911	905	258
25°	813	819	823	817	810	372
35°	654	663	693	697	694	410
45°	506	515	532	556	559	390
55°	354	360	378	399	410	316
65°	208	213	226	242	256	206
75°	83	88	94	99	104	91
85°	13	13	13	12	12	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.2	972.2	972.2	972.2	972.2
2.5°	974.8	975.2	972.9	967.0	963.2
5°	971.1	970.7	967.0	961.7	958.8
7.5°	960.3	961.0	959.9	952.4	948.3
10°	949.8	950.2	947.2	941.2	936.3
12.5°	936.3	936.0	931.9	928.9	921.0
15°	915.1	917.3	915.1	910.9	904.6
17.5°	894.5	894.5	896.0	888.9	884.1
20°	871.4	872.5	872.5	866.9	861.3
22.5°	844.5	847.8	848.9	843.0	836.3
25°	812.7	819.1	822.8	816.8	809.7
27.5°	774.3	784.0	795.2	790.7	782.8
30°	731.3	745.5	764.2	760.4	754.8
32.5°	690.6	704.8	730.6	729.1	726.1
35°	653.6	662.6	692.8	696.6	693.9
37.5°	618.5	626.7	655.1	663.7	661.5
40°	581.5	590.5	612.9	628.2	629.0
42.5°	544.9	553.5	571.8	593.9	593.9
45°	506.1	514.7	531.5	555.8	558.7
47.5°	468.0	477.0	493.4	517.7	522.5
50°	430.6	438.9	455.3	478.8	486.3
52.5°	391.8	400.8	416.8	438.5	449.3
55°	354.4	360.4	378.0	398.9	410.5
57.5°	315.6	321.2	341.0	358.9	370.9
60°	278.3	285.3	300.7	319.0	332.8
62.5°	242.4	249.9	262.9	279.0	294.7
65°	207.7	213.3	226.0	242.0	255.8
67.5°	174.0	178.9	191.6	202.8	217.4
70°	140.1	146.4	155.7	166.6	175.9
72.5°	112.8	115.4	123.3	131.1	140.8
75°	83.3	87.8	94.1	98.6	104.2
77.5°	59.8	62.4	66.1	69.8	75.1
80°	40.0	41.1	44.4	45.2	49.3
82.5°	24.3	25.0	25.8	26.1	27.6
85°	13.1	13.1	13.1	12.3	12.3
87.5°	7.5	7.5	6.3	5.2	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)