

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: P554973

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-82-96-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: P554973
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-35-UNV-82-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

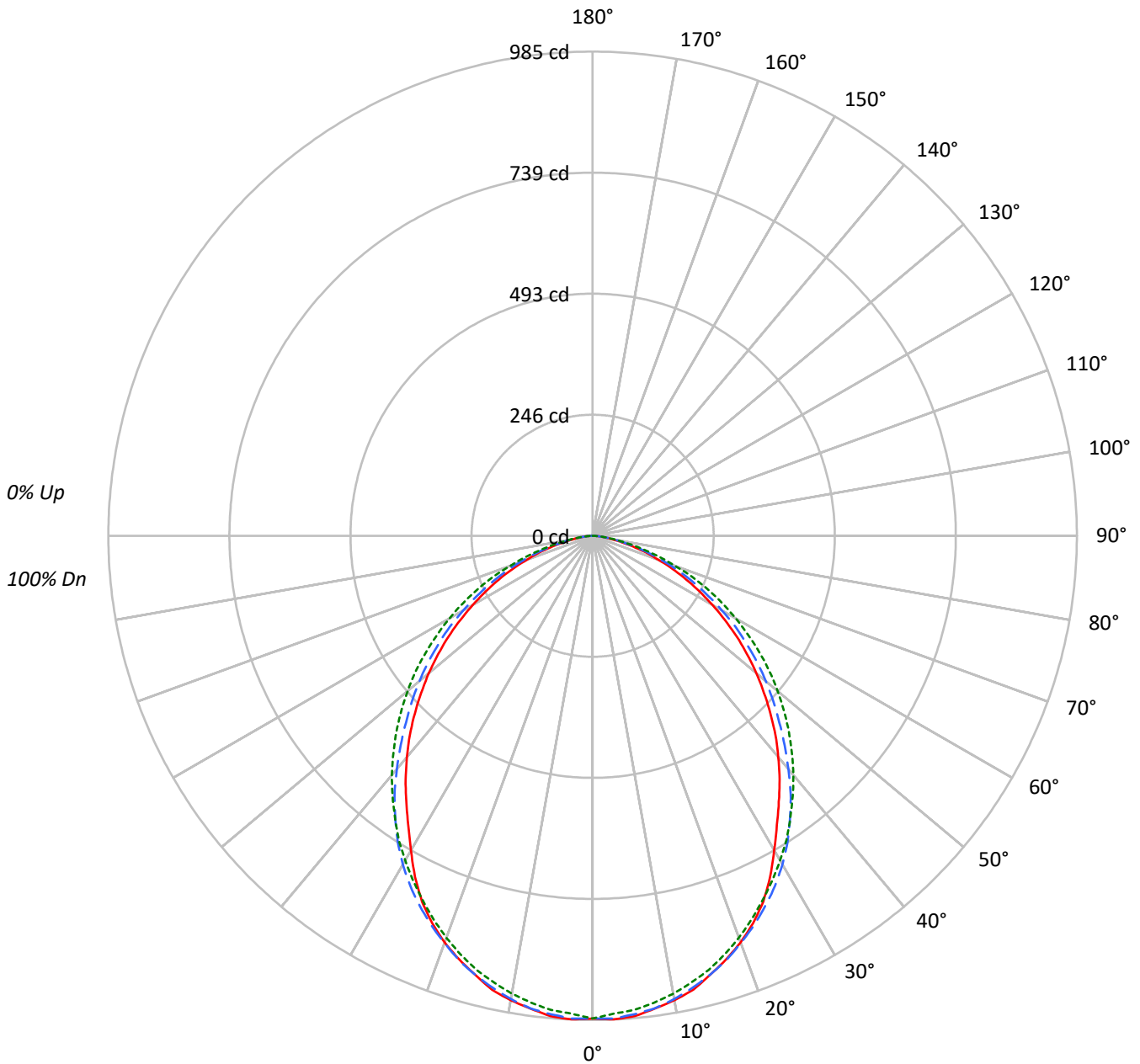
Lumens per Lamp: N/A
Luminaire Lumens: 2271.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5286	5286	5286
5°	5300	5278	5233
10°	5244	5229	5169
15°	5151	5151	5092
20°	5042	5048	4983
25°	4875	4936	4858
30°	4591	4798	4739
35°	4338	4598	4606
40°	4128	4350	4464
45°	3892	4086	4297
50°	3642	3851	4114
55°	3360	3582	3891
60°	3026	3269	3619
65°	2672	2907	3292
70°	2227	2475	2796
75°	1749	1978	2190
80°	1252	1392	1543
85°	815	815	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	4.1
10°-20°	259.8	11.4
20°-30°	379.6	16.7
30°-40°	430.9	19.0
40°-50°	416.0	18.3
50°-60°	343.2	15.1
60°-70°	228.5	10.1
70°-80°	102.3	4.5
80°-90°	18.3	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°	731.9	32.2
0°-40°	1162.8	51.2
0°-60°	1921.9	84.6
0°-90°	2271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2271.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	981	981	977	972	969	93
15°	924	927	924	920	914	261
25°	821	828	831	825	818	376
35°	660	669	700	704	701	414
45°	511	520	537	561	564	394
55°	358	364	382	403	415	320
65°	210	215	228	244	258	208
75°	84	89	95	100	105	92
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°	982.1	982.1	982.1	982.1	982.1
2.5°	984.8	985.2	982.9	976.9	973.1
5°	981.0	980.6	976.9	971.6	968.6
7.5°	970.1	970.8	969.7	962.2	958.0
10°	959.5	959.9	956.9	950.8	945.9
12.5°	945.9	945.5	941.4	938.4	930.5
15°	924.4	926.7	924.4	920.3	913.9
17.5°	903.7	903.7	905.2	898.0	893.1
20°	880.3	881.4	881.4	875.7	870.1
22.5°	853.1	856.5	857.6	851.6	844.8
25°	821.0	827.5	831.2	825.2	818.0
27.5°	782.2	792.0	803.3	798.8	790.9
30°	738.8	753.1	772.0	768.2	762.6
32.5°	697.7	712.0	738.0	736.5	733.5
35°	660.3	669.4	699.9	703.7	701.0
37.5°	624.8	633.1	661.8	670.5	668.2
40°	587.5	596.5	619.2	634.6	635.4
42.5°	550.5	559.2	577.7	599.9	599.9
45°	511.3	519.9	536.9	561.4	564.5
47.5°	472.8	481.8	498.4	523.0	527.9
50°	435.0	443.3	459.9	483.7	491.3
52.5°	395.8	404.9	421.1	443.0	453.9
55°	358.1	364.1	381.8	403.0	414.7
57.5°	318.8	324.5	344.5	362.6	374.7
60°	281.1	288.3	303.7	322.2	336.2
62.5°	244.9	252.4	265.6	281.9	297.7
65°	209.8	215.4	228.3	244.5	258.5
67.5°	175.8	180.7	193.6	204.9	219.6
70°	141.5	147.9	157.3	168.3	177.7
72.5°	113.9	116.6	124.5	132.4	142.2
75°	84.1	88.7	95.1	99.6	105.3
77.5°	60.4	63.0	66.8	70.6	75.8
80°	40.4	41.5	44.9	45.7	49.8
82.5°	24.5	25.3	26.0	26.4	27.9
85°	13.2	13.2	13.2	12.5	12.5
87.5°	7.5	7.5	6.4	5.3	3.8
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)