

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: P554943

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-80-97-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: P554943
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-80-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

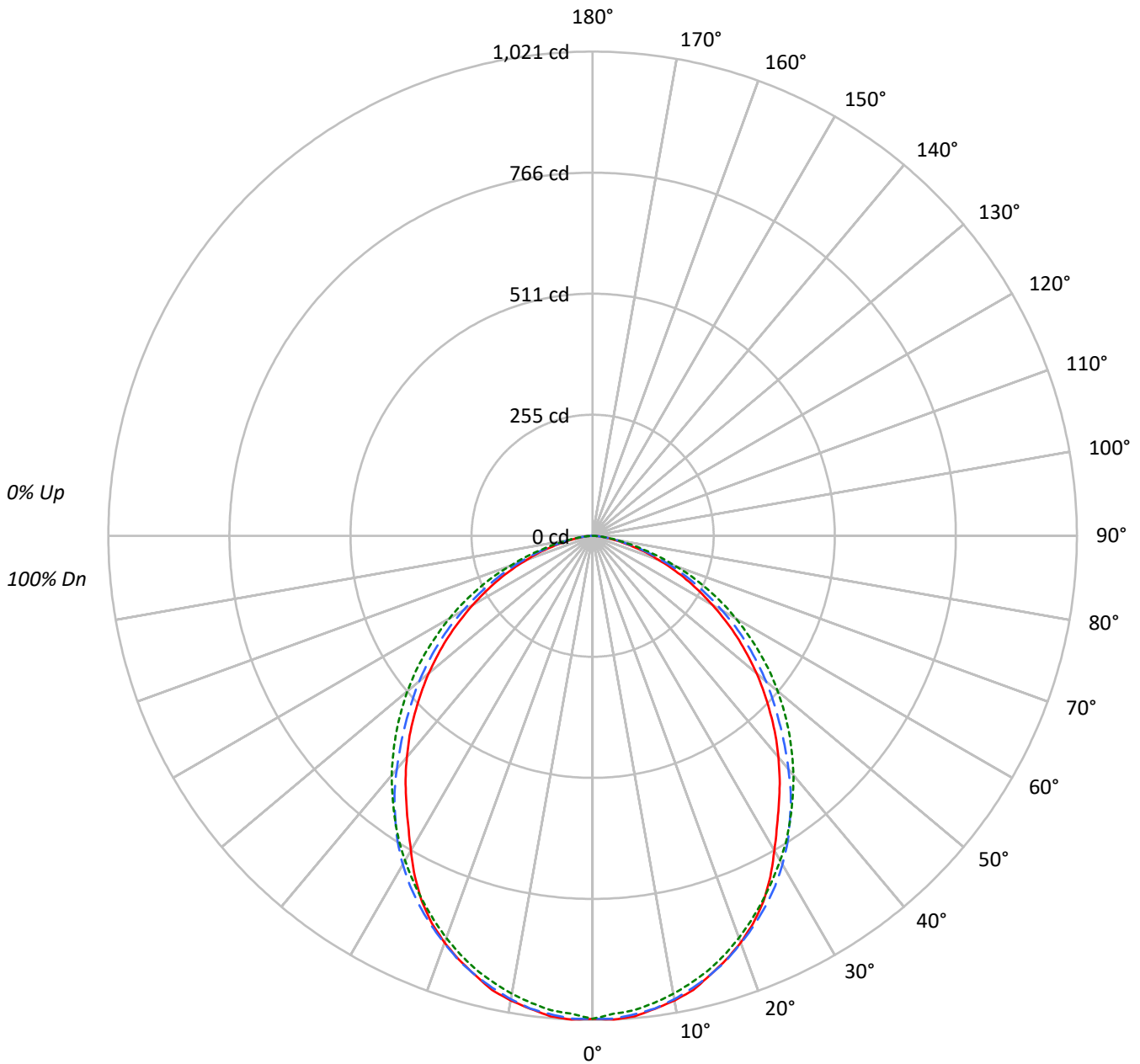
Lumens per Lamp: N/A
Luminaire Lumens: 2355.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5482	5482	5482
5°	5496	5473	5426
10°	5438	5423	5361
15°	5341	5341	5280
20°	5228	5235	5168
25°	5056	5119	5037
30°	4761	4975	4914
35°	4499	4769	4777
40°	4280	4511	4629
45°	4035	4238	4455
50°	3777	3994	4265
55°	3484	3716	4035
60°	3138	3391	3752
65°	2770	3014	3413
70°	2308	2568	2900
75°	1815	2050	2271
80°	1299	1444	1599
85°	846	846	797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	4.1
10°-20°	269.4	11.4
20°-30°	393.7	16.7
30°-40°	446.9	19.0
40°-50°	431.4	18.3
50°-60°	355.8	15.1
60°-70°	237.0	10.1
70°-80°	106.0	4.5
80°-90°	19.0	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°	759.0	32.2
0°-40°	1205.8	51.2
0°-60°	1993.0	84.6
0°-90°	2355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1017	1017	1013	1008	1004	96
15°	959	961	959	954	948	270
25°	851	858	862	856	848	390
35°	685	694	726	730	727	429
45°	530	539	557	582	585	409
55°	371	378	396	418	430	331
65°	218	223	237	254	268	216
75°	87	92	99	103	109	95
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°	1018.5	1018.5	1018.5	1018.5	1018.5
2.5°	1021.2	1021.6	1019.3	1013.0	1009.1
5°	1017.3	1016.9	1013.0	1007.5	1004.4
7.5°	1006.0	1006.7	1005.6	997.7	993.4
10°	995.0	995.4	992.3	986.0	980.9
12.5°	980.9	980.5	976.2	973.1	964.9
15°	958.6	961.0	958.6	954.3	947.7
17.5°	937.1	937.1	938.7	931.2	926.1
20°	912.8	914.0	914.0	908.1	902.3
22.5°	884.7	888.2	889.4	883.1	876.1
25°	851.4	858.1	862.0	855.7	848.3
27.5°	811.1	821.3	833.0	828.3	820.1
30°	766.1	781.0	800.5	796.6	790.8
32.5°	723.5	738.3	765.3	763.8	760.6
35°	684.7	694.1	725.8	729.7	727.0
37.5°	647.9	656.6	686.3	695.3	692.9
40°	609.2	618.6	642.1	658.1	658.9
42.5°	570.9	579.9	599.0	622.1	622.1
45°	530.2	539.2	556.8	582.2	585.3
47.5°	490.3	499.7	516.9	542.3	547.4
50°	451.1	459.7	477.0	501.6	509.4
52.5°	410.4	419.8	436.7	459.4	470.7
55°	371.3	377.6	396.0	417.9	430.0
57.5°	330.6	336.5	357.2	376.0	388.5
60°	291.5	298.9	315.0	334.1	348.6
62.5°	253.9	261.8	275.5	292.3	308.7
65°	217.5	223.4	236.7	253.5	268.0
67.5°	182.3	187.4	200.7	212.5	227.7
70°	146.7	153.4	163.2	174.5	184.3
72.5°	118.2	120.9	129.1	137.3	147.5
75°	87.3	91.9	98.6	103.3	109.2
77.5°	62.6	65.3	69.3	73.2	78.6
80°	41.9	43.0	46.6	47.3	51.6
82.5°	25.4	26.2	27.0	27.4	29.0
85°	13.7	13.7	13.7	12.9	12.9
87.5°	7.8	7.8	6.7	5.5	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)