

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: P554937

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-80-88-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: P554937
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-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

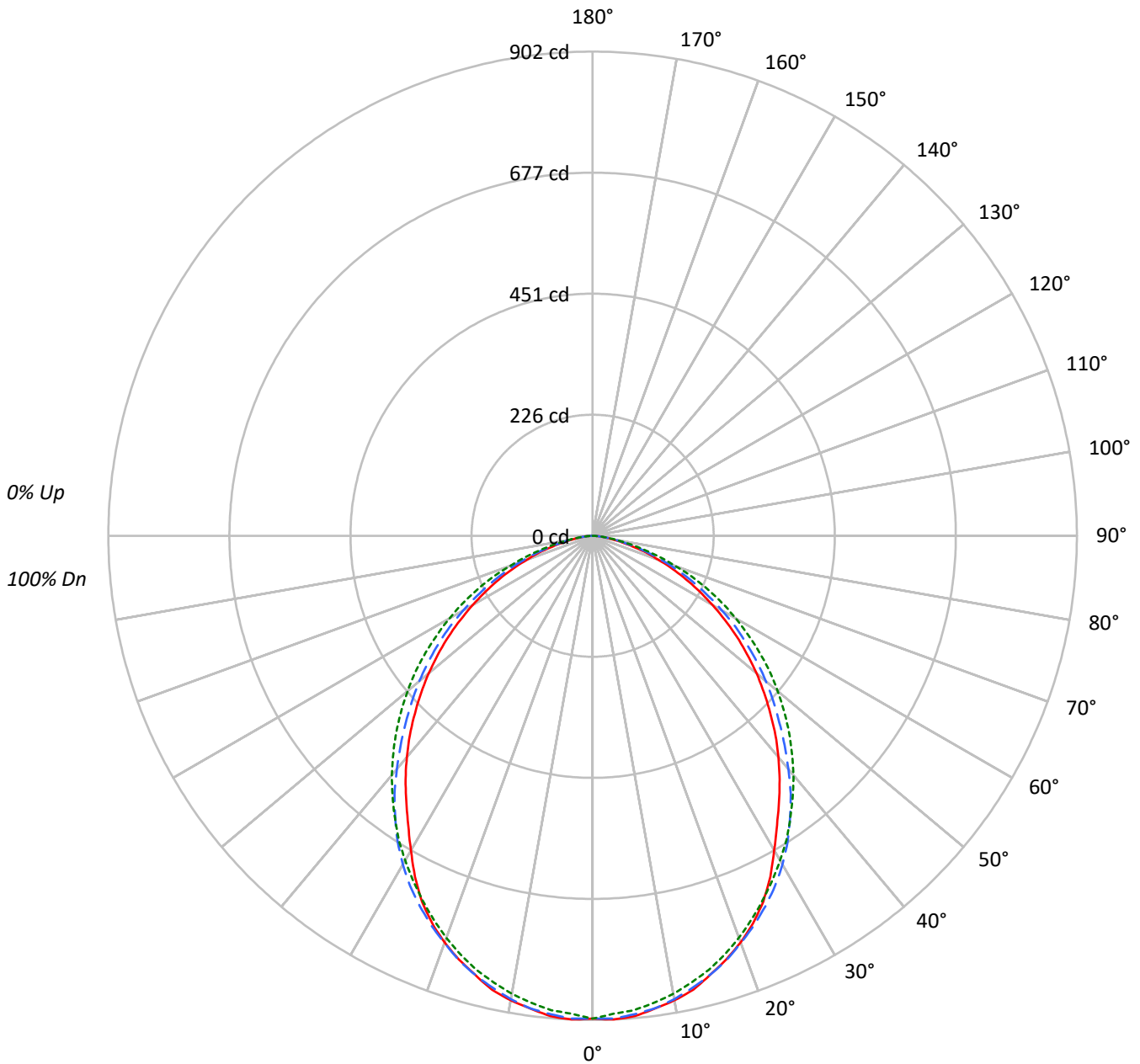
Lumens per Lamp: N/A
Luminaire Lumens: 2080.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4841	4841	4841
5°	4854	4834	4793
10°	4803	4790	4735
15°	4718	4718	4664
20°	4617	4624	4564
25°	4466	4521	4449
30°	4205	4394	4340
35°	3974	4212	4219
40°	3781	3984	4089
45°	3564	3743	3935
50°	3337	3527	3767
55°	3078	3281	3564
60°	2772	2995	3314
65°	2446	2663	3014
70°	2039	2268	2562
75°	1603	1811	2005
80°	1147	1274	1413
85°	747	747	704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	4.1
10°-20°	237.9	11.4
20°-30°	347.7	16.7
30°-40°	394.7	19.0
40°-50°	381.0	18.3
50°-60°	314.3	15.1
60°-70°	209.3	10.1
70°-80°	93.7	4.5
80°-90°	16.8	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°	670.3	32.2
0°-40°	1065.0	51.2
0°-60°	1760.3	84.6
0°-90°	2080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2080.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	900	900	900	900	900	
5°	898	898	895	890	887	85
15°	847	849	847	843	837	239
25°	752	758	761	756	749	344
35°	605	613	641	644	642	379
45°	468	476	492	514	517	361
55°	328	334	350	369	380	293
65°	192	197	209	224	237	191
75°	77	81	87	91	96	84
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	899.5	899.5	899.5	899.5	899.5
2.5°	902.0	902.3	900.2	894.7	891.3
5°	898.5	898.2	894.7	889.9	887.1
7.5°	888.5	889.2	888.1	881.2	877.4
10°	878.8	879.2	876.4	870.9	866.4
12.5°	866.4	866.0	862.2	859.5	852.2
15°	846.7	848.7	846.7	842.9	837.0
17.5°	827.7	827.7	829.0	822.5	818.0
20°	806.2	807.3	807.3	802.1	796.9
22.5°	781.4	784.5	785.5	780.0	773.8
25°	752.0	757.9	761.3	755.8	749.2
27.5°	716.4	725.4	735.7	731.6	724.3
30°	676.6	689.8	707.1	703.6	698.4
32.5°	639.0	652.1	676.0	674.6	671.8
35°	604.8	613.1	641.1	644.5	642.1
37.5°	572.3	579.9	606.1	614.1	612.0
40°	538.1	546.4	567.1	581.3	582.0
42.5°	504.2	512.2	529.1	549.5	549.5
45°	468.3	476.2	491.8	514.2	517.0
47.5°	433.0	441.3	456.5	479.0	483.5
50°	398.5	406.1	421.3	443.0	449.9
52.5°	362.5	370.8	385.7	405.7	415.7
55°	328.0	333.5	349.7	369.1	379.8
57.5°	292.0	297.2	315.5	332.1	343.2
60°	257.5	264.0	278.2	295.1	307.9
62.5°	224.3	231.2	243.3	258.1	272.7
65°	192.1	197.3	209.1	223.9	236.7
67.5°	161.0	165.5	177.3	187.7	201.1
70°	129.6	135.5	144.1	154.1	162.8
72.5°	104.4	106.8	114.0	121.3	130.3
75°	77.1	81.2	87.1	91.2	96.4
77.5°	55.3	57.7	61.2	64.6	69.5
80°	37.0	38.0	41.1	41.8	45.6
82.5°	22.5	23.2	23.8	24.2	25.6
85°	12.1	12.1	12.1	11.4	11.4
87.5°	6.9	6.9	5.9	4.8	3.5
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)