

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: P555005

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-80-96-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: P555005
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-40-UNV-80-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

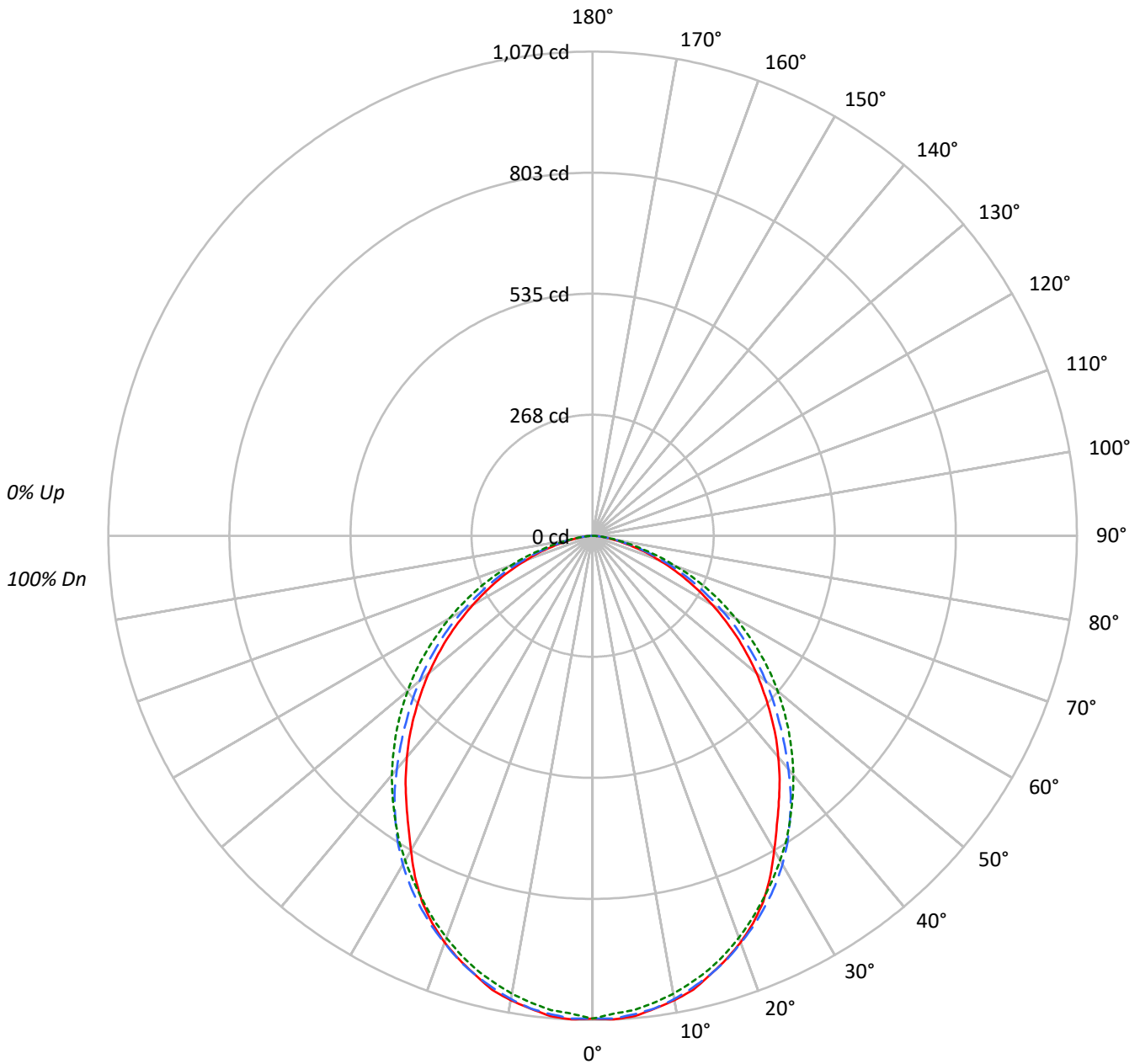
Lumens per Lamp: N/A
Luminaire Lumens: 2467.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5742	5742	5742
5°	5757	5733	5685
10°	5696	5681	5616
15°	5595	5595	5531
20°	5477	5484	5414
25°	5296	5362	5277
30°	4987	5212	5148
35°	4713	4995	5004
40°	4484	4725	4849
45°	4227	4440	4667
50°	3957	4183	4469
55°	3650	3892	4227
60°	3287	3552	3931
65°	2902	3158	3576
70°	2419	2689	3039
75°	1901	2148	2379
80°	1361	1512	1677
85°	883	883	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	4.1
10°-20°	282.2	11.4
20°-30°	412.4	16.7
30°-40°	468.1	19.0
40°-50°	451.9	18.3
50°-60°	372.8	15.1
60°-70°	248.2	10.1
70°-80°	111.1	4.5
80°-90°	19.9	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°	795.0	32.2
0°-40°	1263.2	51.2
0°-60°	2087.8	84.6
0°-90°	2467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2467.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1066	1065	1061	1055	1052	101
15°	1004	1007	1004	1000	993	283
25°	892	899	903	896	889	408
35°	717	727	760	764	762	449
45°	555	565	583	610	613	429
55°	389	396	415	438	450	347
65°	228	234	248	266	281	226
75°	91	96	103	108	114	100
85°	14	14	14	14	14	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1066.9	1066.9	1066.9	1066.9	1066.9
2.5°	1069.8	1070.2	1067.7	1061.2	1057.1
5°	1065.7	1065.3	1061.2	1055.4	1052.2
7.5°	1053.8	1054.6	1053.4	1045.2	1040.7
10°	1042.3	1042.7	1039.5	1032.9	1027.6
12.5°	1027.6	1027.2	1022.6	1019.4	1010.8
15°	1004.2	1006.7	1004.2	999.7	992.7
17.5°	981.7	981.7	983.3	975.5	970.2
20°	956.2	957.5	957.5	951.3	945.2
22.5°	926.7	930.4	931.7	925.1	917.7
25°	891.9	898.9	903.0	896.4	888.6
27.5°	849.7	860.3	872.6	867.7	859.1
30°	802.5	818.1	838.6	834.5	828.4
32.5°	757.9	773.4	801.7	800.1	796.8
35°	717.3	727.1	760.3	764.4	761.6
37.5°	678.8	687.8	718.9	728.4	725.9
40°	638.2	648.0	672.6	689.4	690.2
42.5°	598.0	607.4	627.5	651.7	651.7
45°	555.4	564.8	583.3	609.9	613.2
47.5°	513.6	523.4	541.4	568.1	573.4
50°	472.6	481.6	499.6	525.5	533.7
52.5°	430.0	439.8	457.4	481.2	493.1
55°	389.0	395.5	414.8	437.8	450.5
57.5°	346.3	352.5	374.2	393.9	407.0
60°	305.4	313.1	330.0	350.0	365.2
62.5°	266.0	274.2	288.6	306.2	323.4
65°	227.9	234.0	248.0	265.6	280.8
67.5°	191.0	196.3	210.3	222.6	238.5
70°	153.7	160.7	170.9	182.8	193.1
72.5°	123.8	126.7	135.3	143.9	154.5
75°	91.4	96.3	103.3	108.2	114.4
77.5°	65.6	68.4	72.5	76.6	82.4
80°	43.9	45.1	48.8	49.6	54.1
82.5°	26.6	27.5	28.3	28.7	30.3
85°	14.3	14.3	14.3	13.5	13.5
87.5°	8.2	8.2	7.0	5.7	4.1
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)