

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: P554557

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-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: P554557
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-LD4-1STD-50-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
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

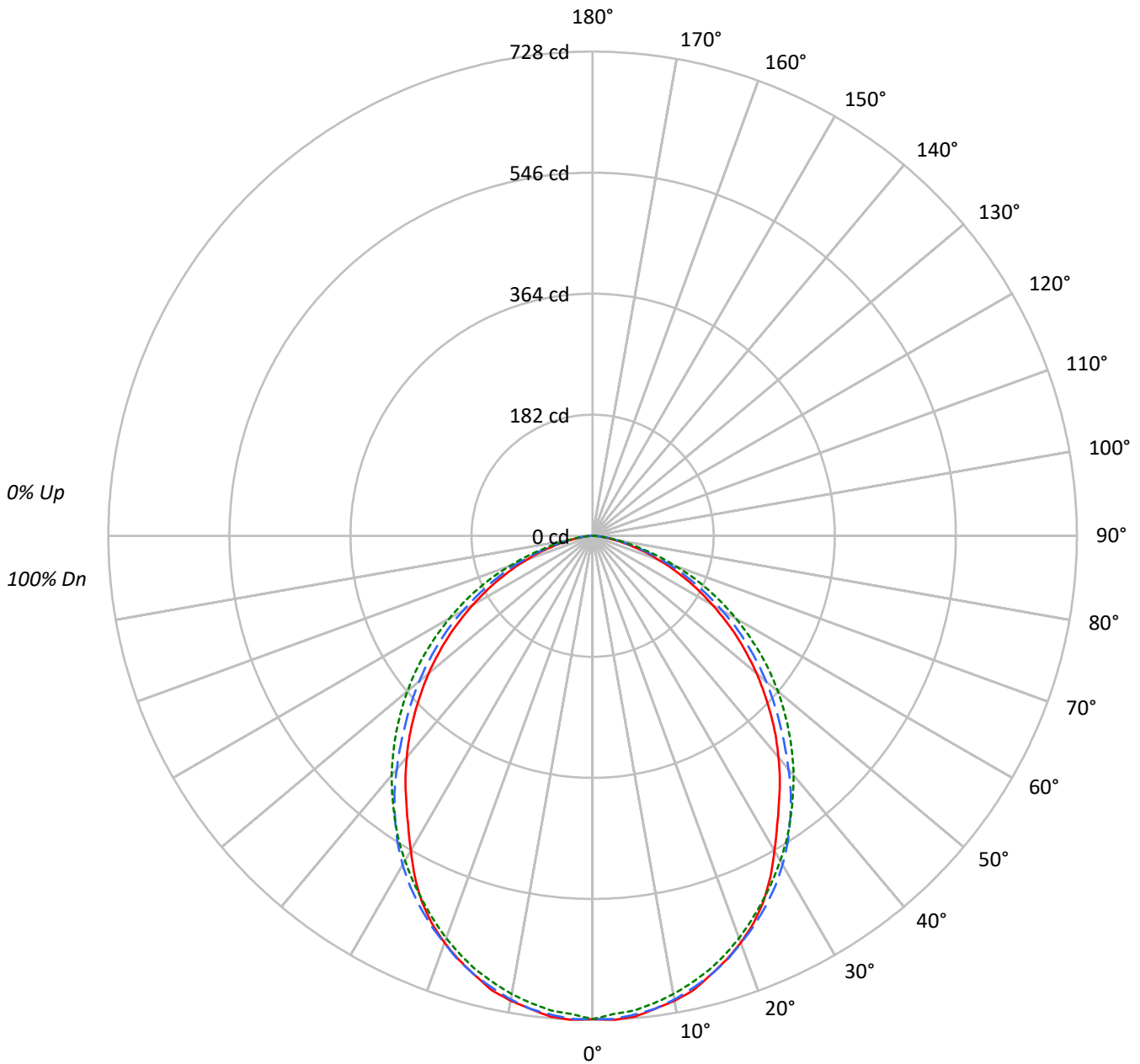
Lumens per Lamp: N/A
Luminaire Lumens: 1680.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	3911	3911	3911
5°	3921	3904	3871
10°	3879	3869	3824
15°	3811	3811	3767
20°	3730	3734	3687
25°	3607	3651	3593
30°	3396	3549	3506
35°	3210	3402	3407
40°	3053	3218	3302
45°	2879	3023	3178
50°	2694	2849	3043
55°	2486	2651	2879
60°	2238	2419	2677
65°	1976	2151	2435
70°	1648	1832	2069
75°	1293	1462	1620
80°	927	1029	1141
85°	605	605	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	4.1
10°-20°	192.2	11.4
20°-30°	280.8	16.7
30°-40°	318.8	19.0
40°-50°	307.7	18.3
50°-60°	253.9	15.1
60°-70°	169.1	10.1
70°-80°	75.6	4.5
80°-90°	13.5	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°	541.4	32.2
0°-40°	860.2	51.2
0°-60°	1421.8	84.6
0°-90°	1680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	726	725	723	719	716	69
15°	684	686	684	681	676	193
25°	607	612	615	610	605	278
35°	488	495	518	521	519	306
45°	378	385	397	415	418	292
55°	265	269	282	298	307	236
65°	155	159	169	181	191	154
75°	62	66	70	74	78	68
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	726.6	726.6	726.6	726.6	726.6
2.5°	728.5	728.8	727.1	722.6	719.9
5°	725.7	725.4	722.6	718.7	716.5
7.5°	717.6	718.2	717.3	711.8	708.7
10°	709.8	710.1	707.9	703.4	699.8
12.5°	699.8	699.5	696.4	694.2	688.3
15°	683.9	685.5	683.9	680.8	676.0
17.5°	668.5	668.5	669.6	664.3	660.7
20°	651.2	652.0	652.0	647.8	643.7
22.5°	631.1	633.6	634.4	630.0	625.0
25°	607.4	612.1	614.9	610.4	605.1
27.5°	578.6	585.9	594.3	590.9	585.0
30°	546.5	557.1	571.1	568.3	564.1
32.5°	516.1	526.7	546.0	544.8	542.6
35°	488.5	495.2	517.8	520.6	518.6
37.5°	462.2	468.4	489.6	496.0	494.3
40°	434.6	441.3	458.0	469.5	470.0
42.5°	407.2	413.7	427.3	443.8	443.8
45°	378.2	384.6	397.2	415.3	417.6
47.5°	349.7	356.4	368.7	386.9	390.5
50°	321.8	328.0	340.3	357.8	363.4
52.5°	292.8	299.5	311.5	327.7	335.8
55°	264.9	269.4	282.5	298.1	306.8
57.5°	235.9	240.0	254.8	268.2	277.2
60°	207.9	213.2	224.7	238.4	248.7
62.5°	181.2	186.7	196.5	208.5	220.2
65°	155.2	159.4	168.9	180.9	191.2
67.5°	130.1	133.7	143.2	151.6	162.4
70°	104.7	109.4	116.4	124.5	131.5
72.5°	84.3	86.2	92.1	98.0	105.2
75°	62.2	65.6	70.3	73.7	77.9
77.5°	44.7	46.6	49.4	52.2	56.1
80°	29.9	30.7	33.2	33.8	36.8
82.5°	18.1	18.7	19.3	19.5	20.7
85°	9.8	9.8	9.8	9.2	9.2
87.5°	5.6	5.6	4.7	3.9	2.8
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)