

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: P554353

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-80-84-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: P554353
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-30-UNV-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

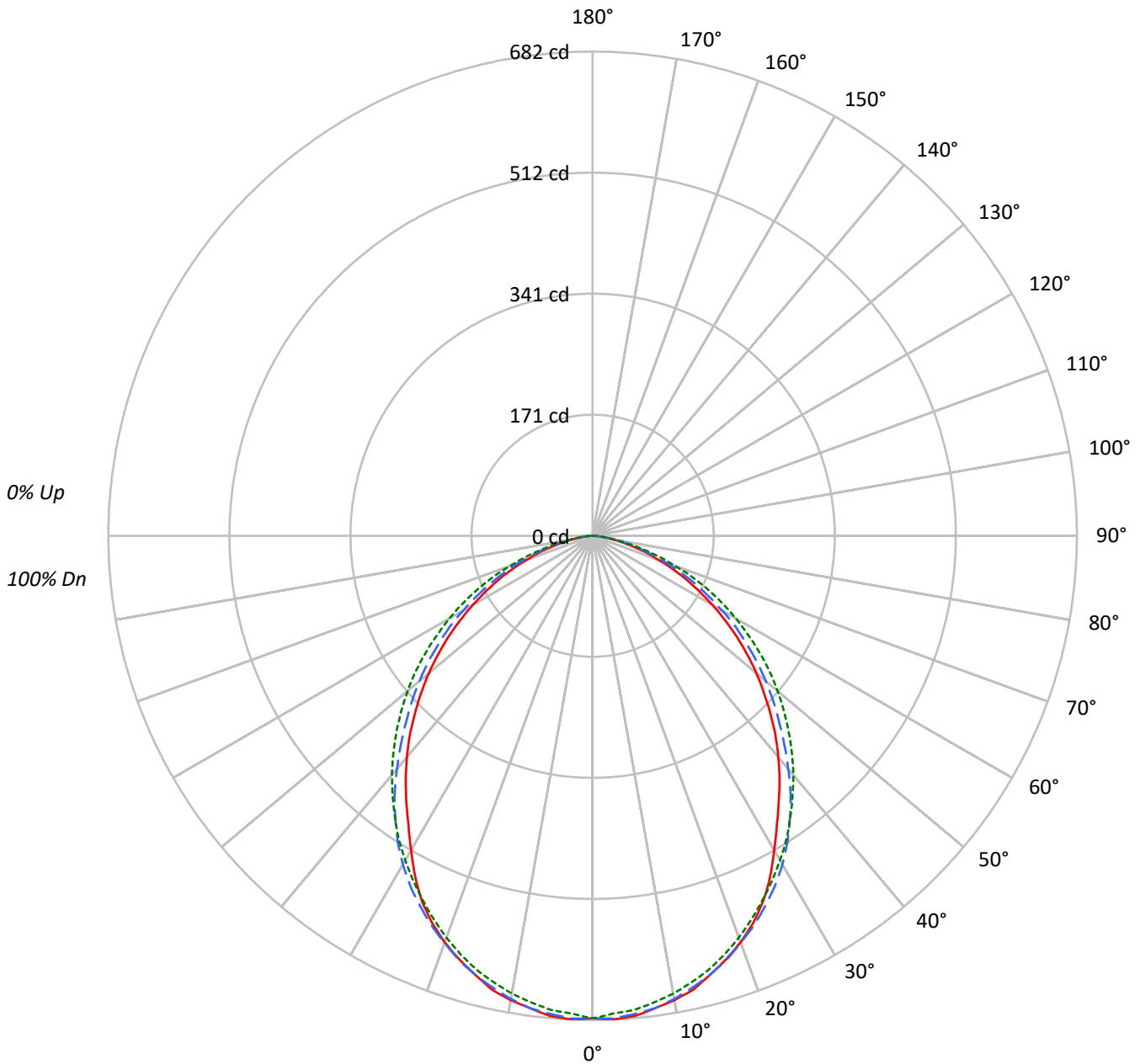
Lumens per Lamp: N/A
Luminaire Lumens: 1572.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3659	3659	3659
5°	3669	3653	3622
10°	3630	3620	3578
15°	3565	3565	3525
20°	3490	3494	3450
25°	3375	3417	3362
30°	3178	3321	3280
35°	3003	3183	3188
40°	2857	3011	3090
45°	2694	2829	2974
50°	2521	2666	2848
55°	2326	2480	2693
60°	2095	2263	2505
65°	1849	2012	2278
70°	1541	1714	1936
75°	1210	1368	1516
80°	865	964	1069
85°	562	562	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	4.1
10°-20°	179.8	11.4
20°-30°	262.8	16.7
30°-40°	298.3	19.0
40°-50°	288.0	18.3
50°-60°	237.5	15.1
60°-70°	158.2	10.1
70°-80°	70.8	4.5
80°-90°	12.7	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°	506.6	32.2
0°-40°	804.9	51.2
0°-60°	1330.4	84.6
0°-90°	1572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	680	680	680	680	680	
5°	679	679	676	672	670	64
15°	640	642	640	637	633	180
25°	568	573	575	571	566	260
35°	457	463	484	487	485	286
45°	354	360	372	389	391	273
55°	248	252	264	279	287	221
65°	145	149	158	169	179	144
75°	58	61	66	69	73	64
85°	9	9	9	9	9	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	679.8	679.8	679.8	679.8	679.8
2.5°	681.7	681.9	680.4	676.2	673.6
5°	679.1	678.8	676.2	672.5	670.4
7.5°	671.5	672.0	671.2	666.0	663.1
10°	664.2	664.4	662.4	658.2	654.8
12.5°	654.8	654.5	651.6	649.6	644.1
15°	639.9	641.5	639.9	637.0	632.6
17.5°	625.5	625.5	626.6	621.6	618.2
20°	609.3	610.1	610.1	606.2	602.3
22.5°	590.5	592.9	593.7	589.5	584.8
25°	568.3	572.8	575.4	571.2	566.2
27.5°	541.4	548.2	556.1	552.9	547.4
30°	511.4	521.3	534.4	531.8	527.8
32.5°	482.9	492.8	510.9	509.8	507.7
35°	457.1	463.3	484.5	487.1	485.3
37.5°	432.5	438.3	458.1	464.1	462.5
40°	406.7	412.9	428.6	439.3	439.8
42.5°	381.1	387.1	399.9	415.3	415.3
45°	353.9	359.9	371.7	388.6	390.7
47.5°	327.3	333.5	345.0	362.0	365.4
50°	301.1	306.9	318.4	334.8	340.1
52.5°	274.0	280.2	291.5	306.6	314.2
55°	247.9	252.0	264.3	278.9	287.0
57.5°	220.7	224.6	238.5	251.0	259.4
60°	194.6	199.5	210.2	223.0	232.7
62.5°	169.5	174.7	183.9	195.1	206.1
65°	145.2	149.1	158.0	169.2	178.9
67.5°	121.7	125.1	134.0	141.8	152.0
70°	97.9	102.4	108.9	116.5	123.0
72.5°	78.9	80.7	86.2	91.7	98.5
75°	58.2	61.4	65.8	69.0	72.9
77.5°	41.8	43.6	46.2	48.8	52.5
80°	27.9	28.7	31.1	31.6	34.5
82.5°	17.0	17.5	18.0	18.3	19.3
85°	9.1	9.1	9.1	8.6	8.6
87.5°	5.2	5.2	4.4	3.7	2.6
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)