

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: P554423

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-80-87-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: P554423
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-35-UNV-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

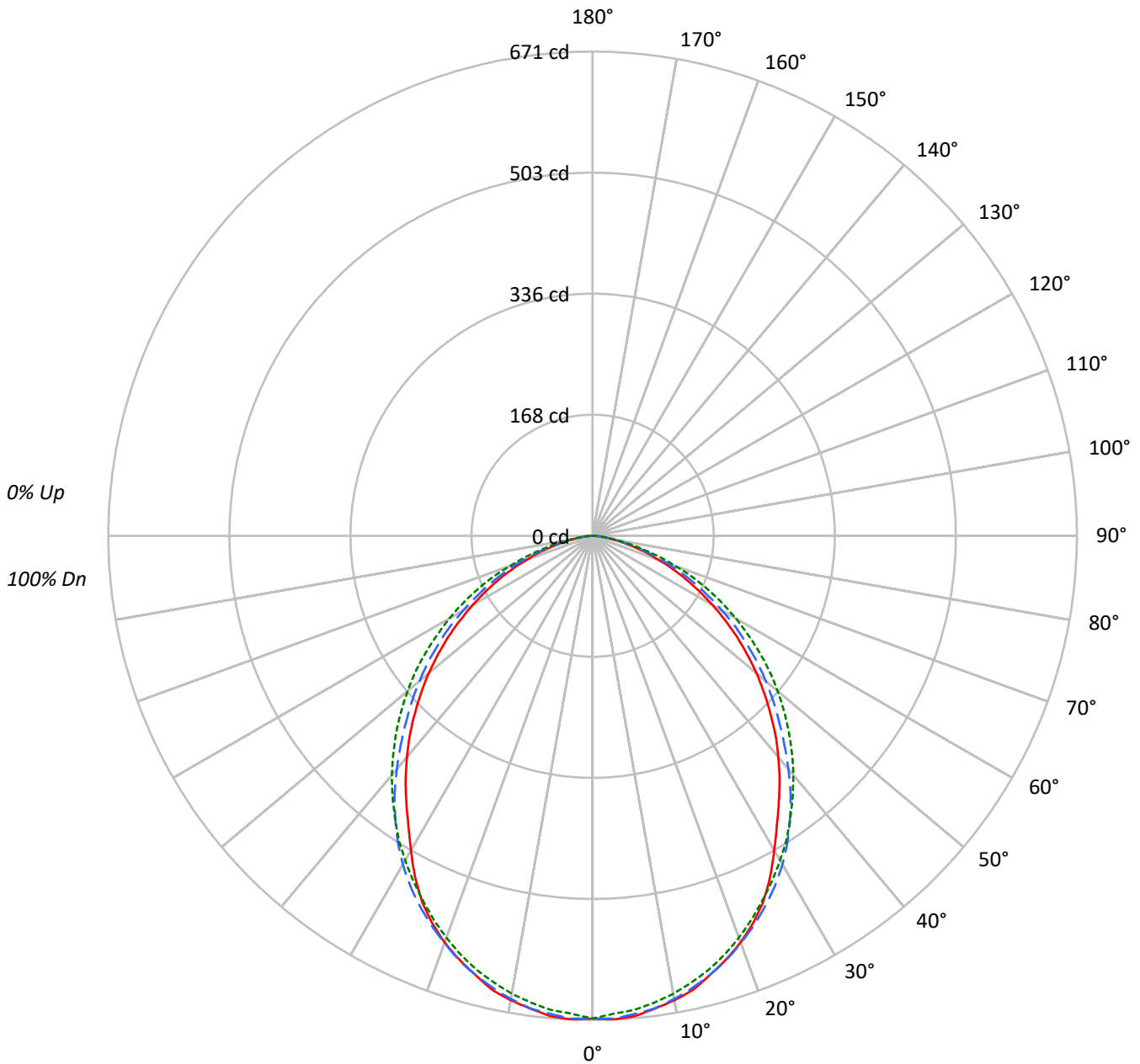
Lumens per Lamp: N/A
Luminaire Lumens: 1547.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (Ain): 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°	3601	3601	3601
5°	3611	3595	3565
10°	3572	3562	3522
15°	3509	3509	3468
20°	3434	3439	3395
25°	3321	3362	3309
30°	3128	3268	3228
35°	2955	3133	3138
40°	2812	2963	3041
45°	2651	2783	2927
50°	2482	2623	2802
55°	2289	2441	2651
60°	2061	2227	2465
65°	1820	1980	2243
70°	1517	1687	1906
75°	1192	1347	1491
80°	852	948	1051
85°	556	556	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	4.1
10°-20°	177.0	11.4
20°-30°	258.6	16.7
30°-40°	293.5	19.0
40°-50°	283.4	18.3
50°-60°	233.8	15.1
60°-70°	155.7	10.1
70°-80°	69.7	4.5
80°-90°	12.5	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°	498.6	32.2
0°-40°	792.1	51.2
0°-60°	1309.2	84.6
0°-90°	1547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1547.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	669	669	669	669	669	
5°	668	668	665	662	660	63
15°	630	631	630	627	622	178
25°	559	564	566	562	557	256
35°	450	456	477	479	478	282
45°	348	354	366	382	384	269
55°	244	248	260	274	282	218
65°	143	147	156	167	176	142
75°	57	60	65	68	72	63
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	669.0	669.0	669.0	669.0	669.0
2.5°	670.8	671.1	669.6	665.4	662.9
5°	668.3	668.0	665.4	661.8	659.8
7.5°	660.8	661.3	660.6	655.4	652.6
10°	653.6	653.9	651.8	647.7	644.4
12.5°	644.4	644.1	641.3	639.2	633.8
15°	629.7	631.3	629.7	626.9	622.5
17.5°	615.6	615.6	616.6	611.7	608.4
20°	599.6	600.4	600.4	596.6	592.7
22.5°	581.1	583.4	584.2	580.1	575.5
25°	559.3	563.7	566.2	562.1	557.2
27.5°	532.8	539.5	547.2	544.1	538.7
30°	503.3	513.0	525.9	523.3	519.4
32.5°	475.2	485.0	502.7	501.7	499.7
35°	449.8	456.0	476.8	479.4	477.6
37.5°	425.6	431.3	450.8	456.7	455.2
40°	400.2	406.4	421.8	432.3	432.8
42.5°	375.0	380.9	393.5	408.7	408.7
45°	348.3	354.2	365.7	382.5	384.5
47.5°	322.1	328.2	339.5	356.2	359.6
50°	296.4	302.0	313.3	329.5	334.6
52.5°	269.6	275.8	286.8	301.7	309.2
55°	243.9	248.0	260.1	274.5	282.5
57.5°	217.2	221.0	234.7	247.0	255.2
60°	191.5	196.4	206.9	219.5	229.0
62.5°	166.8	172.0	180.9	192.0	202.8
65°	142.9	146.8	155.5	166.6	176.1
67.5°	119.8	123.1	131.9	139.6	149.6
70°	96.4	100.8	107.2	114.6	121.1
72.5°	77.6	79.4	84.8	90.2	96.9
75°	57.3	60.4	64.8	67.9	71.7
77.5°	41.1	42.9	45.5	48.1	51.7
80°	27.5	28.3	30.6	31.1	33.9
82.5°	16.7	17.2	17.7	18.0	19.0
85°	9.0	9.0	9.0	8.5	8.5
87.5°	5.1	5.1	4.4	3.6	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)