

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: P553938

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-82-85-EDD-90**

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: P553938
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-LD4-1HI-35-UNV-82-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

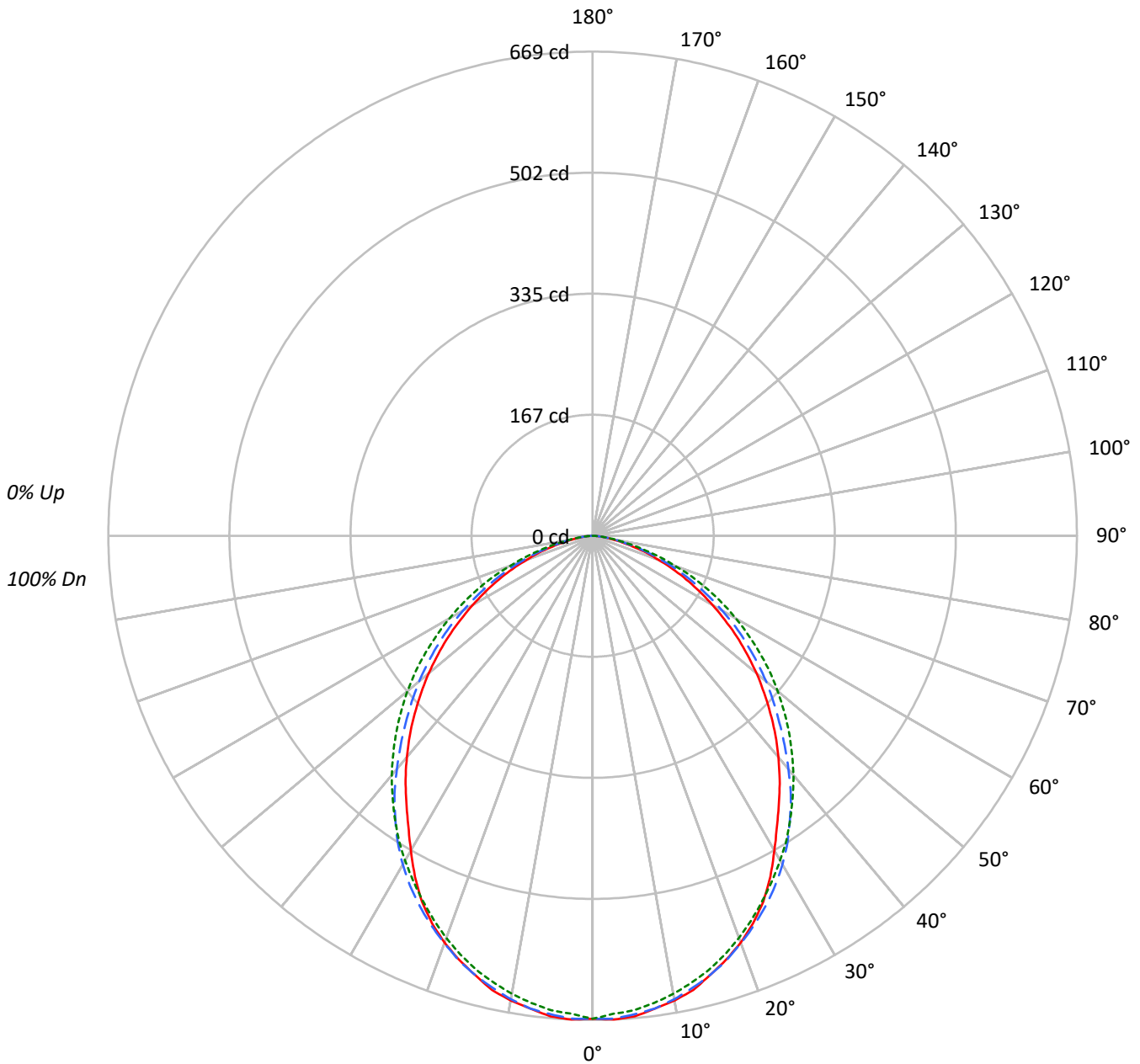
Lumens per Lamp: N/A
Luminaire Lumens: 1543.0 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	3591	3591	3591
5°	3601	3586	3555
10°	3563	3553	3512
15°	3500	3500	3460
20°	3426	3430	3386
25°	3312	3354	3301
30°	3120	3260	3220
35°	2947	3124	3129
40°	2805	2956	3033
45°	2644	2777	2919
50°	2475	2617	2795
55°	2283	2434	2643
60°	2056	2222	2458
65°	1815	1975	2236
70°	1512	1682	1899
75°	1189	1343	1487
80°	849	945	1048
85°	556	556	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	4.1
10°-20°	176.5	11.4
20°-30°	257.9	16.7
30°-40°	292.8	19.0
40°-50°	282.6	18.3
50°-60°	233.2	15.1
60°-70°	155.3	10.1
70°-80°	69.5	4.5
80°-90°	12.4	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°	497.3	32.2
0°-40°	790.0	51.2
0°-60°	1305.8	84.6
0°-90°	1543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	667	667	667	667	667	
5°	666	666	664	660	658	63
15°	628	630	628	625	621	177
25°	558	562	565	561	556	255
35°	449	455	476	478	476	281
45°	347	353	365	382	384	268
55°	243	247	259	274	282	217
65°	142	146	155	166	176	141
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°	667.3	667.3	667.3	667.3	667.3
2.5°	669.1	669.4	667.8	663.7	661.2
5°	666.5	666.3	663.7	660.1	658.1
7.5°	659.1	659.6	658.8	653.7	650.9
10°	651.9	652.2	650.1	646.0	642.7
12.5°	642.7	642.4	639.6	637.6	632.2
15°	628.1	629.6	628.1	625.3	620.9
17.5°	614.0	614.0	615.0	610.1	606.8
20°	598.1	598.9	598.9	595.0	591.2
22.5°	579.6	581.9	582.7	578.6	574.0
25°	557.8	562.2	564.8	560.7	555.8
27.5°	531.4	538.1	545.8	542.7	537.3
30°	502.0	511.7	524.5	522.0	518.1
32.5°	474.0	483.8	501.4	500.4	498.4
35°	448.6	454.8	475.5	478.1	476.3
37.5°	424.5	430.2	449.7	455.6	454.0
40°	399.2	405.3	420.7	431.2	431.7
42.5°	374.0	379.9	392.5	407.6	407.6
45°	347.4	353.3	364.8	381.5	383.5
47.5°	321.2	327.4	338.7	355.3	358.6
50°	295.6	301.2	312.5	328.7	333.8
52.5°	268.9	275.1	286.1	301.0	308.4
55°	243.3	247.4	259.4	273.8	281.7
57.5°	216.6	220.5	234.1	246.4	254.6
60°	191.0	195.9	206.4	218.9	228.4
62.5°	166.4	171.5	180.5	191.5	202.3
65°	142.5	146.4	155.1	166.1	175.6
67.5°	119.5	122.8	131.5	139.2	149.2
70°	96.1	100.5	106.9	114.3	120.7
72.5°	77.4	79.2	84.6	90.0	96.6
75°	57.2	60.2	64.6	67.7	71.5
77.5°	41.0	42.8	45.4	47.9	51.5
80°	27.4	28.2	30.5	31.0	33.8
82.5°	16.7	17.2	17.7	17.9	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)