

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: METALUX

Report Number: P855643

Luminaire Tested: **12SFS-L3C4-NUV-LOW-3000K**

Issue Date: 7/17/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P855643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( BL231218002-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 12SFS-L3C4-NUV-LOW-3000K  
Description: 1x2 Surround Frame Selectable - Architectural Slim LED Frame with,  
LOW Lumen and 3000K CCT Settings  
Light Source: -  
Ballast/Driver: -

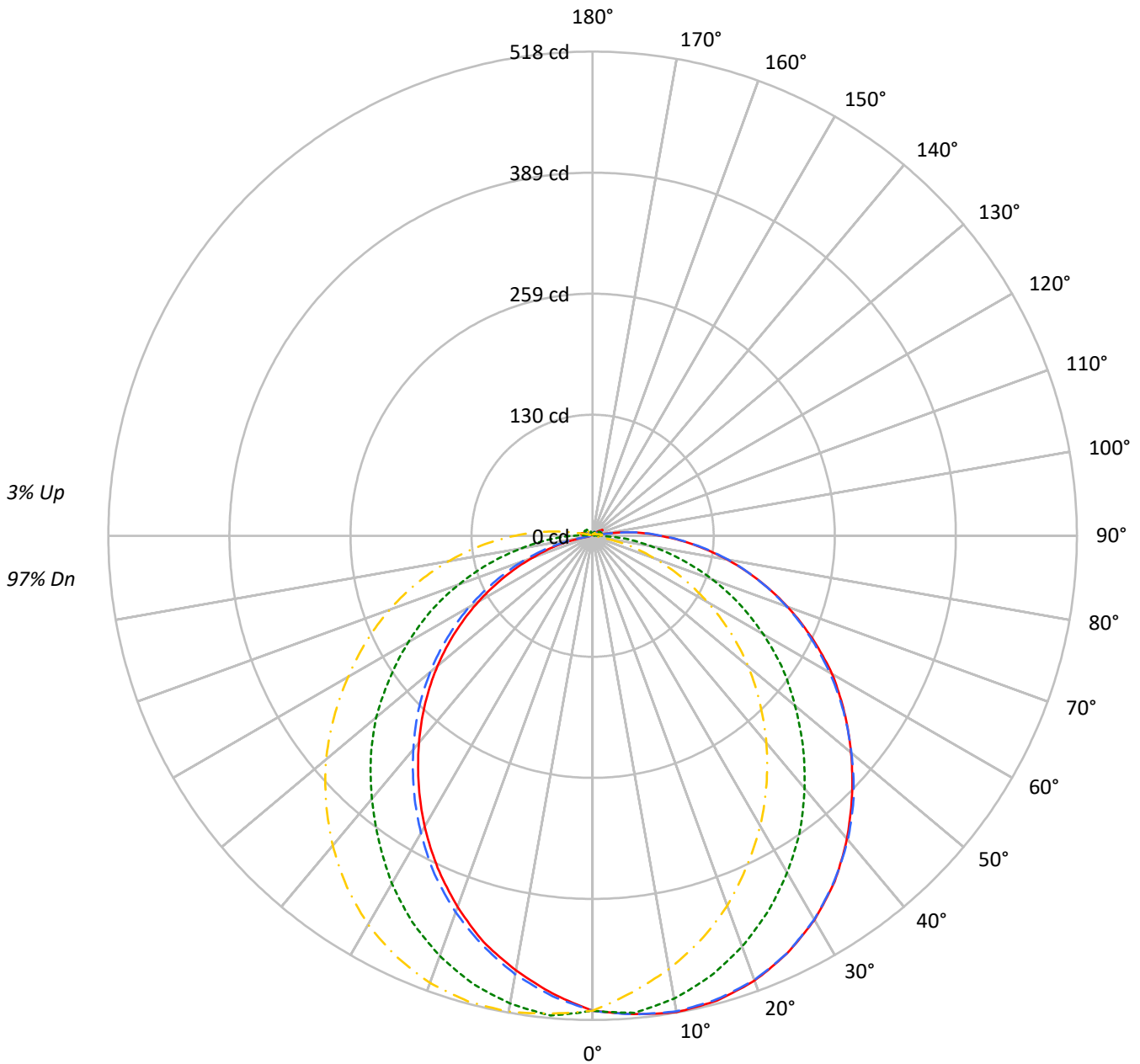
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1528.0 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.92' x L: 1.9' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 12  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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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CATALOG NUMBER: 12SFS-L3C4-NUV-LOW-3000K

### 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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	86	83	81	81	81	79																	
2	97	88	81	75	94	86	80	74	82	76	72	78	74	70	75	71	68	68	68	65																	
3	88	77	69	62	85	76	68	61	72	65	60	69	63	58	66	61	57	57	57	55																	
4	81	68	59	53	78	67	58	52	64	57	51	61	55	50	59	53	49	49	49	46																	
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	42	42	42	40																	
6	69	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	37	37	35																	
7	64	50	41	35	62	49	40	34	47	39	34	45	39	34	44	38	33	33	33	31																	
8	59	45	37	31	57	45	36	31	43	36	30	41	35	30	40	34	30	30	30	28																	
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27	27	27	25																	
10	52	38	31	25	50	38	30	25	37	30	25	35	29	25	34	28	24	24	24	22																	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	3129	3129	3129	3129
5°	3175	3167	3039	3185
10°	3236	3143	2951	3178
15°	3281	3109	2869	3162
20°	3319	3064	2769	3134
25°	3348	3015	2664	3100
30°	3374	2959	2555	3054
35°	3393	2905	2439	2996
40°	3402	2833	2322	2952
45°	3418	2769	2206	2922
50°	3456	2706	2073	2894
55°	3528	2666	1921	2840
60°	3643	2595	1736	2802
65°	3772	2529	1511	2787
70°	3991	2447	1217	2742
75°	4375	2336	904	2715
80°	5163	2216	167	2730
85°	7644	2452	254	3292



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.0	3.1
10°-20°	136.8	9.0
20°-30°	205.4	13.4
30°-40°	244.9	16.0
40°-50°	252.5	16.5
50°-60°	229.9	15.0
60°-70°	182.3	11.9
70°-80°	118.4	7.7
80°-90°	58.8	3.9
90°-100°	23.0	1.5
100°-110°	7.5	0.5
110°-120°	7.0	0.5
120°-130°	5.6	0.4
130°-140°	3.5	0.2
140°-150°	2.2	0.1
150°-160°	1.3	0.1
160°-170°	0.6	0.0
170°-180°	0.2	0.0
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0°-30°	390.2	25.5
0°-40°	635.1	41.6
0°-60°	1117.5	73.1
0°-90°	1477.1	96.7
90°-120°	37.4	2.4
90°-150°	48.8	3.2
90°-180°	51.0	3.3
0°-180°	1528.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	508	508	508	508	508	
5°	514	512	492	515	514	49
15°	515	488	450	496	515	145
25°	493	444	392	456	493	227
35°	451	386	324	398	451	282
45°	392	318	253	336	392	303
55°	329	248	179	264	329	294
65°	259	174	104	191	259	257
75°	184	98	38	114	184	194
85°	108	35	4	47	108	96
90°	72	2	3	20	72	40
95°	42	1	11	6	42	26
105°	2	10	11	10	2	3
115°	8	9	3	10	8	8
125°	9	8	1	9	9	9
135°	3	6	1	9	3	3
145°	1	5	1	6	1	1
155°	1	4	1	5	1	1
165°	1	2	2	2	1	0
175°	1	2	1	2	1	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1
5°	513.7	512.4	513.9	514.9	512.3	510.8	490.0	491.0	491.7	491.6	494.4
10°	517.5	515.3	516.6	517.3	502.7	502.0	470.6	472.5	472.0	473.7	476.4
15°	514.7	512.3	513.4	513.6	487.7	487.6	447.7	449.5	450.1	451.8	454.0
20°	506.5	504.6	505.7	504.8	467.6	468.3	421.2	422.1	422.5	425.1	428.4
25°	492.7	491.3	492.5	491.0	443.7	444.7	390.1	392.2	392.1	396.2	399.9
30°	474.5	472.8	473.9	472.9	416.1	418.2	358.6	359.0	359.3	363.8	367.2
35°	451.4	450.8	450.7	449.8	386.4	387.8	324.3	324.3	324.4	329.6	333.4
40°	423.2	424.3	424.7	422.3	352.5	354.9	289.1	289.3	288.9	294.1	298.2
45°	392.5	394.2	395.0	391.7	318.0	320.6	252.8	254.2	253.3	257.2	263.4
50°	360.8	361.8	361.3	359.5	282.5	286.3	217.4	217.4	216.4	221.8	226.7
55°	328.6	328.4	327.6	324.8	248.3	249.7	179.7	179.4	178.9	184.8	189.3
60°	295.8	292.9	292.8	288.6	210.7	213.2	141.6	142.7	141.0	146.6	152.6
65°	258.9	257.4	256.8	255.6	173.6	176.9	105.0	104.6	103.7	110.0	114.5
70°	221.7	220.4	220.8	218.7	135.9	138.6	69.6	68.5	67.6	74.0	79.4
75°	183.9	183.6	183.7	180.6	98.2	101.1	39.5	39.7	38.0	43.2	46.1
80°	145.6	146.5	147.0	142.1	62.5	67.2	4.1	4.8	4.7	6.0	8.6
85°	108.2	109.2	109.6	105.8	34.7	38.1	2.5	3.5	3.6	3.5	3.0
90°	71.9	73.4	73.6	69.9	2.5	3.2	8.3	3.5	3.2	3.2	5.9
95°	42.3	44.0	43.1	40.6	0.9	3.6	10.3	10.7	11.3	10.6	11.1
100°	6.2	3.2	3.0	2.8	7.5	7.8	8.7	10.4	12.6	11.8	10.9
105°	1.9	2.3	2.2	3.9	10.0	8.7	6.2	9.3	11.4	10.9	8.2
110°	1.7	2.0	7.5	7.9	9.3	7.6	4.2	6.5	7.4	7.2	6.2
115°	8.4	9.7	10.2	8.0	8.6	7.0	3.9	3.2	2.8	3.6	6.0
120°	12.3	9.9	8.0	7.1	8.0	6.7	3.6	2.9	1.1	3.2	5.6
125°	9.4	7.6	5.0	6.3	7.6	6.1	3.2	2.8	1.1	3.2	4.9
130°	6.8	5.8	3.6	6.1	6.8	4.7	3.8	2.6	1.2	3.1	4.2
135°	3.3	3.9	3.7	6.0	6.0	4.7	3.9	2.4	1.2	2.8	3.8
140°	1.2	3.7	3.9	5.4	5.5	4.6	3.6	2.3	1.1	2.5	3.4
145°	1.2	3.5	3.2	4.8	4.9	3.3	2.8	2.1	1.3	2.4	3.2
150°	1.2	3.2	4.5	4.0	4.9	2.7	2.3	1.7	1.3	2.1	2.5
155°	1.2	2.9	4.8	4.2	4.4	1.6	1.6	1.5	1.3	1.8	2.3
160°	1.4	2.6	4.1	4.5	2.5	1.8	1.4	1.3	1.3	1.5	1.9
165°	1.4	2.3	3.3	3.8	2.1	1.5	1.5	1.5	1.5	1.6	1.5
170°	1.3	1.9	2.5	2.9	2.1	1.5	1.5	1.5	1.4	1.5	1.4
175°	1.2	1.6	1.8	1.5	1.6	1.6	1.5	1.3	1.3	1.3	1.4
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	508.1	508.1	508.1	508.1	508.1	508.1
5°	495.2	515.2	513.4	513.1	513.6	513.7
10°	477.6	508.2	507.1	517.0	517.5	517.5
15°	456.3	496.0	495.1	515.5	515.0	514.7
20°	429.9	478.2	478.1	509.0	508.0	506.5
25°	399.9	456.2	456.5	496.8	495.0	492.7
30°	368.4	429.5	431.9	480.4	477.9	474.5
35°	334.3	398.5	402.8	458.4	456.5	451.4
40°	299.4	367.2	370.7	432.5	430.3	423.2
45°	263.3	335.6	336.7	403.4	400.3	392.5
50°	227.8	302.1	302.5	372.3	368.8	360.8
55°	190.3	264.5	265.9	337.7	334.4	328.6
60°	152.2	227.5	229.9	301.9	299.0	295.8
65°	114.4	191.3	191.8	267.0	263.3	258.9
70°	78.8	152.3	155.4	230.8	226.8	221.7
75°	46.2	114.1	118.3	193.9	190.0	183.9
80°	11.8	77.0	81.5	156.0	152.2	145.6
85°	4.1	46.6	49.3	119.5	114.5	108.2
90°	4.6	19.9	20.8	82.7	77.8	71.9
95°	8.9	6.1	4.1	50.3	46.6	42.3
100°	9.8	2.6	5.8	17.0	13.9	6.2
105°	9.5	10.1	9.2	2.6	2.2	1.9
110°	9.1	10.8	8.4	2.9	1.7	1.7
115°	8.7	10.5	8.8	9.0	8.8	8.4
120°	8.3	9.5	8.4	9.5	10.6	12.3
125°	7.2	9.3	7.9	8.8	9.1	9.4
130°	5.7	9.0	7.5	6.2	7.5	6.8
135°	5.0	8.8	6.4	6.2	3.9	3.3
140°	4.6	6.9	5.6	5.9	3.0	1.2
145°	3.4	6.1	4.8	4.9	2.9	1.2
150°	2.8	5.2	5.6	4.3	2.7	1.2
155°	2.4	4.9	4.7	4.4	2.5	1.2
160°	2.3	2.5	4.3	4.0	2.4	1.4
165°	1.5	2.1	3.6	3.2	2.2	1.4
170°	1.4	2.3	2.8	2.7	1.9	1.3
175°	1.6	1.8	2.4	2.3	1.7	1.2
180°	1.5	1.5	1.5	1.5	1.5	1.5



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - 90°-270°    - · - 135°-315°









(END OF REPORT)