

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: P855657

Luminaire Tested: **12SFS-L3C4-UNV-LOW-4000K**

Issue Date: 7/17/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P855657  
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-UNV-LOW-4000K  
Description: 1x2 Surround Frame Selectable - Architectural Slim LED Frame with,  
LOW Lumen and 4000K CCT Settings  
Light Source: -  
Ballast/Driver: -

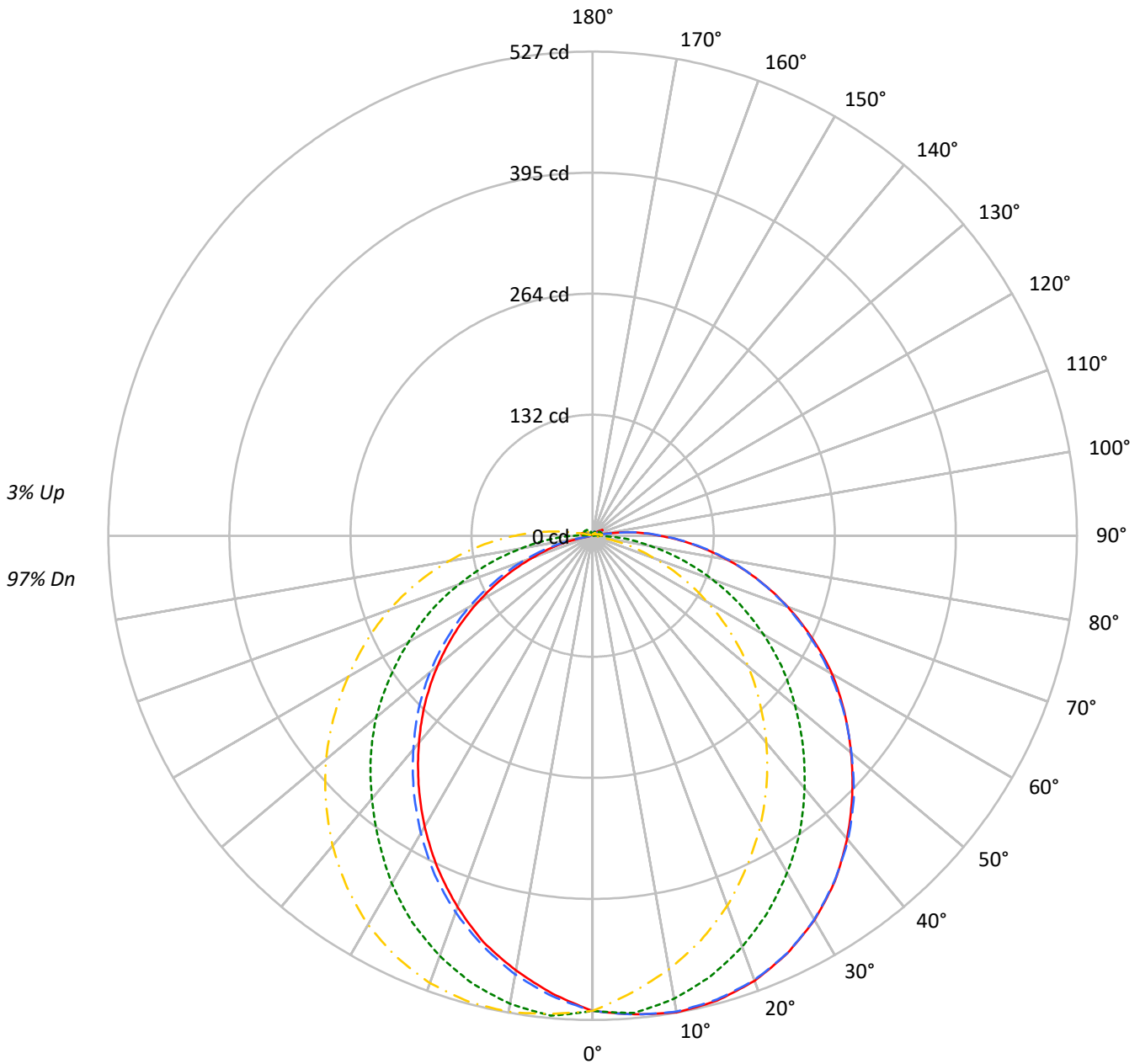
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1555.0 lumens  
Efficiency: N/A  
Efficacy: 129.6 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

TEST NUMBER: P855657

CATALOG NUMBER: 12SFS-L3C4-UNV-LOW-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P855657

CATALOG NUMBER: 12SFS-L3C4-UNV-LOW-4000K

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

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

	0°	90°	180°	270°
0°	3184	3184	3184	3184
5°	3232	3222	3092	3241
10°	3293	3199	3004	3234
15°	3339	3164	2920	3217
20°	3377	3118	2817	3189
25°	3407	3068	2712	3155
30°	3434	3010	2599	3108
35°	3453	2956	2482	3049
40°	3462	2883	2363	3004
45°	3479	2818	2245	2974
50°	3517	2754	2109	2946
55°	3590	2712	1955	2890
60°	3707	2640	1767	2851
65°	3839	2575	1539	2837
70°	4063	2490	1239	2791
75°	4454	2379	918	2762
80°	5255	2255	170	2780
85°	7779	2494	254	3349



TEST NUMBER: P855657

CATALOG NUMBER: 12SFS-L3C4-UNV-LOW-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.9	3.1
10°-20°	139.2	9.0
20°-30°	209.0	13.4
30°-40°	249.3	16.0
40°-50°	256.9	16.5
50°-60°	234.0	15.0
60°-70°	185.5	11.9
70°-80°	120.5	7.8
80°-90°	59.9	3.9
90°-100°	23.4	1.5
100°-110°	7.6	0.5
110°-120°	7.1	0.5
120°-130°	5.7	0.4
130°-140°	3.6	0.2
140°-150°	2.2	0.1
150°-160°	1.4	0.1
160°-170°	0.6	0.0
170°-180°	0.2	0.0
<hr/>		
0°-30°	397.1	25.5
0°-40°	646.3	41.6
0°-60°	1137.3	73.1
0°-90°	1503.2	96.7
90°-120°	38.1	2.5
90°-150°	49.7	3.2
90°-180°	52.0	3.3
0°-180°	1555.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	517	517	517	517	517	
5°	523	521	500	524	523	50
15°	524	496	458	505	524	148
25°	501	452	399	464	501	231
35°	459	393	330	406	459	287
45°	400	324	258	342	400	309
55°	334	253	182	269	334	299
65°	264	177	106	195	264	261
75°	187	100	39	116	187	198
85°	110	35	4	47	110	98
90°	73	3	3	20	73	41
95°	43	1	12	6	43	26
105°	2	10	12	10	2	3
115°	8	9	3	11	8	8
125°	10	8	1	10	10	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	



TEST NUMBER: P855657

CATALOG NUMBER: 12SFS-L3C4-UNV-LOW-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	517.1	517.1	517.1	517.1	517.1	517.1	517.1	517.1	517.1	517.1	517.1
5°	522.8	521.5	523.0	524.0	521.3	519.8	498.7	499.7	500.3	500.3	503.2
10°	526.7	524.4	525.8	526.4	511.6	510.8	479.0	480.9	480.4	482.0	484.8
15°	523.8	521.3	522.5	522.7	496.3	496.2	455.6	457.4	458.1	459.7	462.0
20°	515.4	513.5	514.6	513.7	475.9	476.6	428.6	429.6	429.9	432.6	436.0
25°	501.4	499.9	501.2	499.7	451.6	452.6	397.0	399.2	399.1	403.2	407.0
30°	482.9	481.2	482.3	481.3	423.4	425.6	365.0	365.3	365.6	370.2	373.7
35°	459.4	458.7	458.7	457.8	393.2	394.6	330.0	330.0	330.2	335.4	339.3
40°	430.7	431.8	432.3	429.8	358.7	361.2	294.2	294.4	294.0	299.3	303.5
45°	399.5	401.2	402.0	398.6	323.6	326.3	257.3	258.7	257.8	261.7	268.1
50°	367.1	368.2	367.7	365.9	287.5	291.4	221.2	221.3	220.2	225.7	230.7
55°	334.4	334.2	333.4	330.6	252.6	254.1	182.9	182.6	182.1	188.0	192.6
60°	301.0	298.1	298.0	293.7	214.4	217.0	144.1	145.3	143.5	149.2	155.3
65°	263.5	262.0	261.3	260.1	176.7	180.0	106.9	106.5	105.6	111.9	116.5
70°	225.7	224.3	224.7	222.5	138.3	141.1	70.8	69.7	68.8	75.4	80.8
75°	187.2	186.9	186.9	183.8	100.0	102.9	40.2	40.4	38.6	44.0	47.0
80°	148.2	149.1	149.6	144.6	63.6	68.3	4.2	4.9	4.8	6.1	8.7
85°	110.1	111.2	111.5	107.7	35.3	38.8	2.6	3.5	3.6	3.5	3.1
90°	73.2	74.7	74.9	71.1	2.6	3.2	8.4	3.5	3.3	3.3	6.0
95°	43.1	44.8	43.9	41.4	0.9	3.6	10.5	10.9	11.5	10.8	11.3
100°	6.3	3.3	3.1	2.9	7.7	7.9	8.8	10.6	12.8	12.0	11.1
105°	2.0	2.3	2.2	4.0	10.2	8.8	6.3	9.5	11.6	11.1	8.3
110°	1.7	2.1	7.6	8.0	9.5	7.8	4.3	6.6	7.5	7.3	6.3
115°	8.5	9.8	10.4	8.2	8.7	7.1	4.0	3.2	2.9	3.6	6.1
120°	12.5	10.1	8.2	7.2	8.2	6.8	3.7	3.0	1.2	3.3	5.7
125°	9.6	7.8	5.1	6.4	7.8	6.2	3.3	2.9	1.2	3.2	5.0
130°	6.9	5.9	3.7	6.2	6.9	4.8	3.9	2.6	1.2	3.1	4.3
135°	3.4	4.0	3.8	6.1	6.1	4.8	4.0	2.5	1.2	2.8	3.9
140°	1.2	3.8	4.0	5.4	5.6	4.7	3.7	2.3	1.2	2.6	3.5
145°	1.2	3.5	3.3	4.9	5.0	3.4	2.9	2.1	1.3	2.4	3.2
150°	1.2	3.2	4.5	4.0	5.0	2.7	2.3	1.7	1.3	2.1	2.6
155°	1.2	3.0	4.9	4.3	4.5	1.7	1.7	1.5	1.3	1.8	2.3
160°	1.4	2.6	4.2	4.5	2.6	1.8	1.4	1.3	1.3	1.5	1.9
165°	1.4	2.3	3.4	3.9	2.1	1.5	1.5	1.5	1.6	1.7	1.6
170°	1.3	1.9	2.6	3.0	2.1	1.5	1.5	1.5	1.4	1.5	1.4
175°	1.2	1.7	1.8	1.6	1.7	1.7	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



TEST NUMBER: P855657

CATALOG NUMBER: 12SFS-L3C4-UNV-LOW-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	517.1	517.1	517.1	517.1	517.1	517.1
5°	504.0	524.3	522.5	522.2	522.7	522.8
10°	486.1	517.2	516.1	526.2	526.7	526.7
15°	464.4	504.7	503.9	524.6	524.1	523.8
20°	437.5	486.6	486.6	518.0	516.9	515.4
25°	407.0	464.3	464.5	505.6	503.7	501.4
30°	374.9	437.1	439.5	488.9	486.3	482.9
35°	340.2	405.6	409.9	466.5	464.6	459.4
40°	304.7	373.7	377.3	440.2	437.9	430.7
45°	267.9	341.5	342.6	410.5	407.4	399.5
50°	231.8	307.5	307.9	378.8	375.3	367.1
55°	193.6	269.2	270.6	343.7	340.3	334.4
60°	154.8	231.5	234.0	307.2	304.3	301.0
65°	116.5	194.7	195.2	271.7	267.9	263.5
70°	80.2	155.0	158.1	234.9	230.9	225.7
75°	47.0	116.1	120.3	197.3	193.4	187.2
80°	12.0	78.4	83.0	158.8	154.8	148.2
85°	4.2	47.4	50.2	121.7	116.5	110.1
90°	4.7	20.2	21.2	84.2	79.2	73.2
95°	9.1	6.2	4.2	51.2	47.5	43.1
100°	10.0	2.6	5.9	17.3	14.1	6.3
105°	9.7	10.3	9.3	2.6	2.2	2.0
110°	9.2	11.0	8.6	3.0	1.7	1.7
115°	8.8	10.7	8.9	9.2	9.0	8.5
120°	8.4	9.7	8.5	9.7	10.8	12.5
125°	7.3	9.5	8.0	9.0	9.2	9.6
130°	5.8	9.2	7.6	6.4	7.6	6.9
135°	5.1	8.9	6.5	6.4	4.0	3.4
140°	4.7	7.0	5.7	6.0	3.1	1.2
145°	3.5	6.2	4.9	5.0	3.0	1.2
150°	2.9	5.3	5.7	4.4	2.7	1.2
155°	2.5	5.0	4.8	4.5	2.6	1.2
160°	2.3	2.6	4.4	4.0	2.4	1.4
165°	1.6	2.1	3.6	3.2	2.2	1.4
170°	1.4	2.3	2.9	2.7	2.0	1.3
175°	1.7	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)