

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: P855658

Luminaire Tested: **12SFS-L3C4-UNV-LOW-5000K**

Issue Date: 7/17/2024

**Test Information**

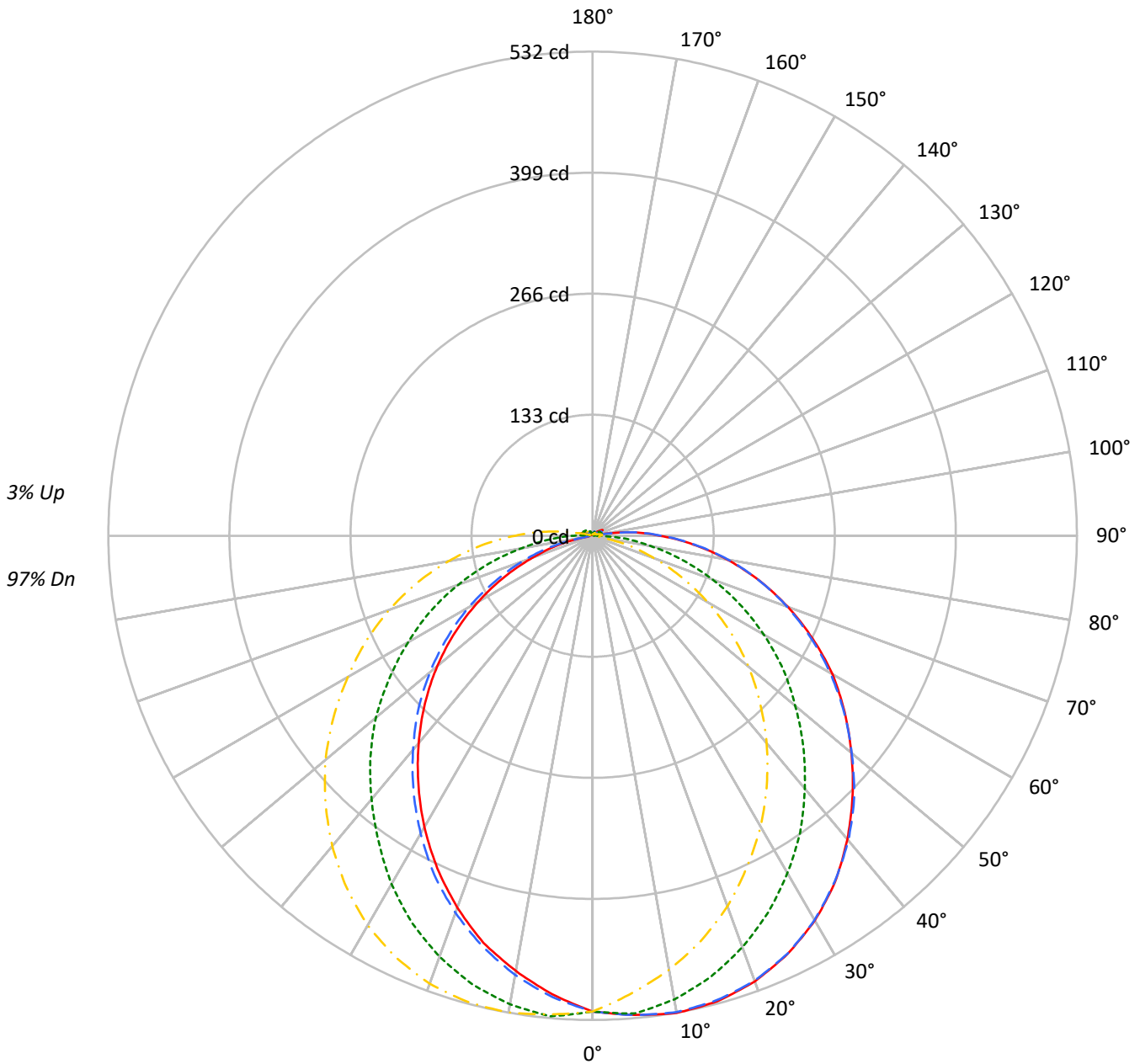
Test Method: LM-79-08  
Report Number: P855658  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( BL231218002-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 12SFS-L3C4-UNV-LOW-5000K  
Description: 1x2 Surround Frame Selectable - Architectural Slim LED Frame with,  
LOW Lumen and 5000K CCT Settings  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1572.0 lumens  
Efficiency: N/A  
Efficacy: 131.0 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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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20
RC	80				70				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	99	97
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	86	83	81	81	81	81	79
2	97	88	81	75	94	86	80	74	82	76	72	78	74	70	75	71	68	68	68	68	65
3	88	77	69	62	85	76	68	61	72	65	60	69	63	58	66	61	57	57	57	57	55
4	81	68	59	53	78	67	58	52	64	57	51	61	55	50	59	53	49	49	49	49	46
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	42	42	42	42	40
6	69	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	37	37	37	35
7	64	50	41	35	62	49	40	34	47	39	34	45	39	33	44	38	33	33	33	33	31
8	59	45	37	31	57	45	36	31	43	36	30	41	35	30	40	34	30	30	30	30	28
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27	27	27	27	25
10	52	38	31	25	50	38	30	25	37	30	25	35	29	25	34	28	24	24	24	24	22

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

	0°	90°	180°	270°
0°	3219	3219	3219	3219
5°	3267	3257	3126	3276
10°	3329	3234	3036	3269
15°	3375	3198	2952	3252
20°	3415	3153	2848	3224
25°	3444	3102	2741	3189
30°	3471	3043	2628	3142
35°	3491	2988	2509	3082
40°	3500	2915	2389	3037
45°	3517	2849	2269	3007
50°	3555	2784	2132	2977
55°	3629	2742	1976	2921
60°	3748	2670	1787	2882
65°	3880	2602	1555	2867
70°	4107	2517	1253	2821
75°	4501	2403	928	2793
80°	5312	2280	170	2812
85°	7863	2522	261	3384



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.4	3.1
10°-20°	140.7	9.0
20°-30°	211.3	13.4
30°-40°	252.0	16.0
40°-50°	259.7	16.5
50°-60°	236.6	15.0
60°-70°	187.6	11.9
70°-80°	121.8	7.8
80°-90°	60.5	3.9
90°-100°	23.7	1.5
100°-110°	7.7	0.5
110°-120°	7.2	0.5
120°-130°	5.8	0.4
130°-140°	3.7	0.2
140°-150°	2.3	0.1
150°-160°	1.4	0.1
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	401.4	25.5
0°-40°	653.4	41.6
0°-60°	1149.7	73.1
0°-90°	1519.6	96.7
90°-120°	38.5	2.5
90°-150°	50.2	3.2
90°-180°	52.0	3.3
0°-180°	1572.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	523	523	523	523	523	
5°	528	527	506	530	528	51
15°	530	502	463	510	530	150
25°	507	456	403	469	507	234
35°	464	398	334	410	464	290
45°	404	327	261	345	404	312
55°	338	255	184	272	338	303
65°	266	179	107	197	266	264
75°	189	101	39	117	189	200
85°	111	36	4	48	111	99
90°	74	3	3	20	74	42
95°	44	1	12	6	44	27
105°	2	10	12	10	2	3
115°	9	9	3	11	9	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7
5°	528.5	527.2	528.7	529.8	527.0	525.5	504.1	505.1	505.8	505.7	508.7
10°	532.4	530.1	531.5	532.2	517.2	516.4	484.2	486.1	485.6	487.3	490.1
15°	529.5	527.0	528.2	528.4	501.7	501.6	460.6	462.4	463.1	464.8	467.1
20°	521.1	519.1	520.2	519.3	481.1	481.8	433.3	434.3	434.6	437.3	440.7
25°	506.9	505.4	506.6	505.1	456.5	457.5	401.3	403.5	403.4	407.6	411.4
30°	488.2	486.5	487.5	486.5	428.0	430.2	369.0	369.3	369.6	374.2	377.8
35°	464.4	463.8	463.7	462.8	397.5	398.9	333.6	333.6	333.8	339.1	343.0
40°	435.4	436.6	437.0	434.5	362.6	365.1	297.4	297.6	297.2	302.6	306.8
45°	403.9	405.6	406.4	402.9	327.2	329.8	260.1	261.5	260.6	264.6	271.0
50°	371.1	372.2	371.7	369.9	290.6	294.5	223.6	223.7	222.6	228.2	233.2
55°	338.0	337.8	337.0	334.2	255.4	256.9	184.9	184.6	184.1	190.1	194.7
60°	304.3	301.4	301.2	296.9	216.8	219.4	145.7	146.9	145.1	150.9	157.0
65°	266.3	264.8	264.2	262.9	178.6	182.0	108.1	107.6	106.7	113.1	117.8
70°	228.1	226.7	227.1	225.0	139.8	142.6	71.6	70.4	69.6	76.2	81.7
75°	189.2	188.9	189.0	185.8	101.0	104.0	40.6	40.8	39.0	44.5	47.5
80°	149.8	150.7	151.3	146.2	64.3	69.1	4.3	4.9	4.8	6.2	8.8
85°	111.3	112.4	112.7	108.9	35.7	39.2	2.6	3.6	3.7	3.6	3.1
90°	74.0	75.5	75.8	71.9	2.6	3.3	8.5	3.6	3.3	3.3	6.1
95°	43.6	45.3	44.4	41.8	0.9	3.7	10.6	11.0	11.6	10.9	11.4
100°	6.3	3.3	3.1	2.9	7.8	8.0	8.9	10.7	12.9	12.1	11.3
105°	2.0	2.3	2.3	4.0	10.3	8.9	6.3	9.6	11.8	11.3	8.4
110°	1.8	2.1	7.7	8.1	9.6	7.8	4.3	6.7	7.6	7.4	6.3
115°	8.6	9.9	10.5	8.3	8.8	7.2	4.0	3.3	2.9	3.7	6.2
120°	12.7	10.2	8.3	7.3	8.3	6.8	3.8	3.0	1.2	3.3	5.8
125°	9.7	7.8	5.2	6.5	7.8	6.3	3.3	2.9	1.2	3.3	5.1
130°	7.0	6.0	3.8	6.3	7.0	4.8	3.9	2.7	1.3	3.2	4.3
135°	3.4	4.0	3.8	6.2	6.2	4.8	4.0	2.5	1.3	2.8	3.9
140°	1.3	3.8	4.0	5.5	5.7	4.8	3.8	2.3	1.2	2.6	3.5
145°	1.3	3.6	3.3	4.9	5.0	3.4	2.9	2.2	1.3	2.4	3.3
150°	1.3	3.3	4.6	4.1	5.0	2.8	2.3	1.8	1.3	2.2	2.6
155°	1.3	3.0	4.9	4.3	4.5	1.7	1.7	1.5	1.3	1.8	2.3
160°	1.4	2.7	4.3	4.6	2.6	1.8	1.4	1.3	1.3	1.5	1.9
165°	1.4	2.3	3.4	3.9	2.2	1.5	1.5	1.5	1.6	1.7	1.6
170°	1.3	1.9	2.6	3.0	2.2	1.5	1.5	1.5	1.4	1.5	1.4
175°	1.3	1.7	1.8	1.6	1.7	1.7	1.5	1.3	1.3	1.3	1.4
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	522.7	522.7	522.7	522.7	522.7	522.7
5°	509.5	530.0	528.2	527.9	528.4	528.5
10°	491.4	522.8	521.8	531.9	532.4	532.4
15°	469.4	510.2	509.4	530.3	529.8	529.5
20°	442.3	492.0	491.9	523.7	522.6	521.1
25°	411.4	469.4	469.6	511.2	509.2	506.9
30°	379.0	441.9	444.3	494.2	491.6	488.2
35°	343.9	410.0	414.4	471.6	469.7	464.4
40°	308.1	377.8	381.4	445.0	442.6	435.4
45°	270.8	345.3	346.4	415.0	411.9	403.9
50°	234.4	310.8	311.2	383.0	379.4	371.1
55°	195.8	272.1	273.5	347.4	344.0	338.0
60°	156.5	234.0	236.6	310.6	307.6	304.3
65°	117.7	196.8	197.3	274.7	270.8	266.3
70°	81.1	156.7	159.9	237.5	233.4	228.1
75°	47.6	117.4	121.7	199.5	195.5	189.2
80°	12.1	79.3	83.9	160.5	156.5	149.8
85°	4.3	47.9	50.7	123.0	117.8	111.3
90°	4.8	20.4	21.4	85.1	80.0	74.0
95°	9.2	6.3	4.3	51.7	48.0	43.6
100°	10.1	2.7	5.9	17.5	14.3	6.3
105°	9.8	10.4	9.4	2.7	2.3	2.0
110°	9.3	11.1	8.7	3.0	1.8	1.8
115°	8.9	10.8	9.0	9.3	9.1	8.6
120°	8.5	9.8	8.6	9.8	10.9	12.7
125°	7.4	9.6	8.1	9.1	9.3	9.7
130°	5.8	9.3	7.7	6.4	7.7	7.0
135°	5.2	9.0	6.6	6.4	4.0	3.4
140°	4.8	7.1	5.8	6.1	3.1	1.3
145°	3.5	6.3	4.9	5.0	3.0	1.3
150°	2.9	5.3	5.8	4.4	2.8	1.3
155°	2.5	5.0	4.8	4.5	2.6	1.3
160°	2.3	2.6	4.4	4.1	2.4	1.4
165°	1.6	2.2	3.7	3.3	2.3	1.4
170°	1.4	2.3	2.9	2.8	2.0	1.3
175°	1.7	1.8	2.4	2.3	1.8	1.3
180°	1.6	1.6	1.6	1.6	1.6	1.6



Report Generated By 670246072 / DESKTOP-50001EG







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









(END OF REPORT)