

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: P855684

Luminaire Tested: **14SFS-L3C4-UNV-MED-3500K**

Issue Date: 7/17/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P855684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( BL231218003-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14SFS-L3C4-UNV-MED-3500K  
Description: 1x4 Surround Frame Selectable - Architectural Slim LED Frame with,  
MED Lumen and 3500K CCT Settings  
Light Source: -  
Ballast/Driver: -

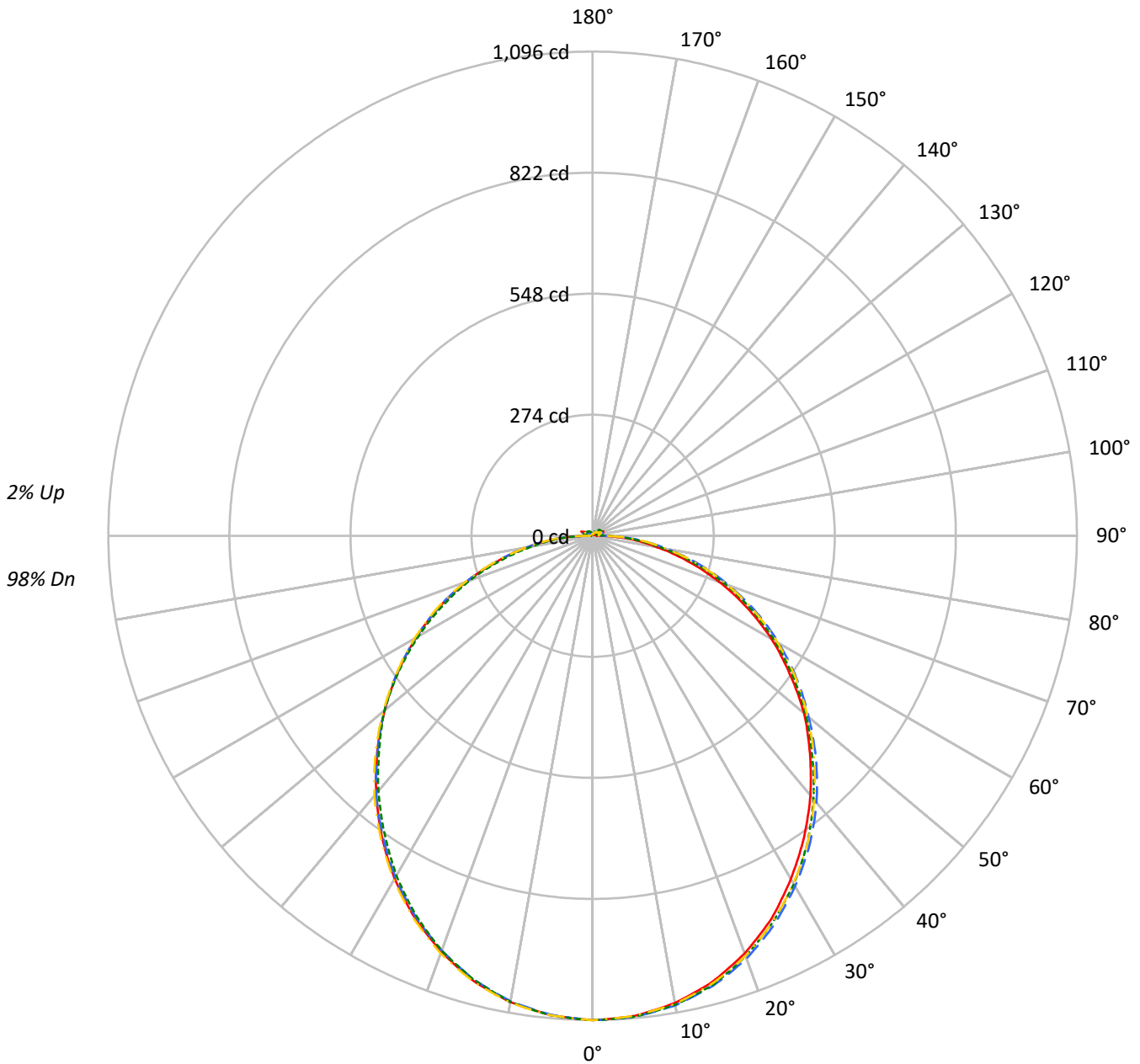
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3199.0 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.35  
Luminous Opening: Rectangular (W 0.92' x L: 3.9' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 25  
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	110	110	110	105	105	105	100	100	100				98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83				80
2	98	89	82	76	95	87	80	75	83	78	73	79	75	71	76	72	69				67
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58				56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	60	54	50				48
5	75	62	53	46	72	60	52	45	58	50	45	56	49	44	54	48	43				41
6	69	56	46	40	67	54	46	40	52	45	39	50	44	39	49	43	38				36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	44	38	34				32
8	60	46	37	31	58	45	37	31	44	36	31	42	35	31	41	35	30				28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27				25
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25				23

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

	0°	90°	180°	270°
0°	3291	3291	3291	3291
5°	3287	3292	3281	3284
10°	3272	3285	3267	3265
15°	3249	3270	3241	3232
20°	3213	3234	3200	3191
25°	3169	3195	3157	3137
30°	3109	3155	3107	3078
35°	3056	3106	3048	3010
40°	3004	3046	2985	2955
45°	2951	2981	2925	2898
50°	2916	2943	2868	2871
55°	2847	2892	2815	2800
60°	2809	2854	2768	2733
65°	2740	2821	2726	2653
70°	2672	2793	2661	2597
75°	2592	2761	2581	2479
80°	2546	2764	2606	2401
85°	2944	3185	2865	2693



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.5	3.2
10°-20°	294.9	9.2
20°-30°	441.7	13.8
30°-40°	524.8	16.4
40°-50°	538.8	16.8
50°-60°	490.3	15.3
60°-70°	387.5	12.1
70°-80°	245.9	7.7
80°-90°	96.4	3.0
90°-100°	10.6	0.3
100°-110°	19.3	0.6
110°-120°	18.0	0.6
120°-130°	10.9	0.3
130°-140°	7.2	0.2
140°-150°	5.0	0.2
150°-160°	2.9	0.1
160°-170°	1.2	0.0
170°-180°	0.3	0.0
0°-30°	840.1	26.3
0°-40°	1364.9	42.7
0°-60°	2393.9	74.8
0°-90°	3123.7	97.6
90°-120°	47.9	1.5
90°-150°	70.9	2.2
90°-180°	75.0	2.3
0°-180°	3199.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1096	1096	1096	1096	1096	
5°	1091	1093	1089	1090	1091	104
15°	1046	1052	1043	1040	1046	295
25°	957	965	953	947	957	441
35°	834	848	832	822	834	522
45°	695	702	689	683	695	537
55°	544	553	538	535	544	488
65°	386	397	384	374	386	382
75°	224	238	223	214	224	237
85°	86	92	83	78	86	82
90°	10	31	7	6	10	16
95°	8	10	4	3	8	7
105°	23	22	20	21	23	21
115°	25	23	20	18	25	23
125°	7	21	6	16	7	8
135°	3	18	2	13	3	2
145°	3	13	3	10	3	2
155°	3	10	3	9	3	1
165°	3	5	3	5	3	1
175°	3	4	3	4	3	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5
5°	1091.1	1087.1	1093.0	1095.6	1092.8	1088.5	1090.7	1092.3	1089.0	1084.7	1088.3
10°	1073.7	1072.3	1079.2	1081.9	1077.8	1074.5	1075.7	1076.9	1071.9	1066.6	1069.9
15°	1045.8	1045.8	1054.4	1056.3	1052.3	1047.7	1048.9	1049.0	1043.2	1037.5	1039.7
20°	1006.0	1008.9	1018.5	1021.1	1012.7	1010.9	1012.2	1009.9	1001.8	999.4	998.9
25°	957.0	961.3	971.7	975.5	964.8	965.3	964.6	961.5	953.4	950.5	950.3
30°	897.1	908.3	916.2	920.3	910.3	911.7	908.8	906.5	896.5	892.7	892.7
35°	834.0	843.8	855.9	857.4	847.8	847.4	848.1	842.8	831.9	828.5	828.5
40°	766.8	777.1	788.2	790.9	777.6	778.8	780.2	772.6	761.8	760.9	762.1
45°	695.3	704.4	714.9	717.2	702.3	708.9	708.5	700.1	689.1	688.2	687.3
50°	624.5	631.0	638.2	642.4	630.3	633.8	634.6	628.8	614.3	615.8	615.8
55°	544.2	555.2	563.5	566.7	552.8	556.6	561.0	552.8	538.0	538.1	539.5
60°	468.0	476.1	487.0	491.4	475.4	481.6	483.0	475.1	461.1	461.3	461.8
65°	385.8	394.6	408.4	410.8	397.2	403.9	404.1	398.4	383.9	383.4	385.8
70°	304.5	317.7	327.7	328.6	318.3	322.7	324.3	320.2	303.3	305.2	305.3
75°	223.5	238.3	250.0	248.3	238.1	245.7	246.2	236.8	222.6	226.4	225.7
80°	147.3	162.1	170.1	169.7	159.9	168.9	169.6	159.9	150.8	152.0	150.8
85°	85.5	95.5	103.9	104.2	92.5	99.6	101.1	94.8	83.2	87.0	88.1
90°	10.5	18.1	26.2	36.9	31.0	29.5	27.4	14.8	7.2	6.5	6.4
95°	8.3	7.9	6.9	9.3	9.5	7.9	4.8	4.1	3.6	4.3	4.3
100°	7.2	7.1	11.0	9.5	6.9	12.6	6.7	3.6	3.3	4.3	17.9
105°	23.1	22.4	23.6	18.8	22.4	19.3	20.0	19.6	20.5	21.9	21.5
110°	26.2	24.3	23.3	21.0	24.0	18.8	20.2	22.7	27.4	21.7	16.7
115°	24.6	23.1	17.9	20.7	23.1	19.5	18.8	19.3	20.3	16.9	10.3
120°	16.2	15.7	13.3	19.1	21.7	18.6	13.4	15.7	14.6	12.8	7.8
125°	7.2	8.1	13.3	18.6	21.0	17.4	13.6	8.3	6.0	7.6	7.8
130°	2.8	7.6	12.6	17.9	20.3	16.7	13.1	6.7	2.4	7.2	7.9
135°	2.9	7.4	11.2	16.5	18.1	14.5	10.9	6.5	2.2	6.9	6.9
140°	2.8	6.7	9.5	12.6	14.8	12.2	9.6	6.0	2.4	6.4	9.3
145°	2.9	6.2	8.4	10.5	12.8	10.7	9.8	5.5	2.6	5.7	10.0
150°	2.9	5.9	7.6	10.0	10.9	9.3	8.6	5.0	2.6	5.2	8.8
155°	2.8	5.2	7.1	8.8	10.2	8.3	7.1	4.8	2.6	4.5	6.7
160°	2.9	4.3	5.5	6.9	5.3	6.5	5.2	4.0	2.4	3.8	5.3
165°	2.9	3.6	4.1	4.5	4.7	3.6	4.0	3.3	2.8	3.3	4.5
170°	2.6	3.3	3.4	3.6	4.8	3.4	3.4	2.9	2.6	2.9	3.6
175°	3.3	3.4	3.3	3.8	4.0	3.6	3.3	2.9	2.6	2.4	2.8
180°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5
5°	1090.2	1090.0	1085.6	1089.4	1091.4	1091.1
10°	1070.6	1071.4	1067.0	1073.0	1075.2	1073.7
15°	1039.4	1040.2	1037.7	1044.4	1047.1	1045.8
20°	999.7	999.1	998.7	1006.0	1008.0	1006.0
25°	949.4	947.2	949.4	956.7	959.8	957.0
30°	890.5	888.1	892.6	899.5	904.5	897.1
35°	824.3	821.6	830.4	835.7	839.8	834.0
40°	755.8	754.2	761.1	768.7	769.2	766.8
45°	682.7	682.7	685.6	695.1	694.4	695.3
50°	609.3	615.0	612.9	618.3	622.0	624.5
55°	535.9	535.2	539.5	541.7	546.1	544.2
60°	457.7	455.4	460.4	465.4	467.3	468.0
65°	378.6	373.6	378.9	388.2	386.7	385.8
70°	297.2	295.9	299.5	307.4	306.7	304.5
75°	219.7	213.8	223.0	227.6	226.6	223.5
80°	144.1	138.9	147.8	151.5	151.1	147.3
85°	82.2	78.2	84.1	88.7	88.9	85.5
90°	5.9	6.0	7.1	9.0	9.6	10.5
95°	8.8	2.8	6.7	5.7	7.8	8.3
100°	17.4	14.5	16.4	16.0	7.4	7.2
105°	17.2	21.2	18.1	22.4	22.9	23.1
110°	14.8	19.0	15.5	19.1	22.1	26.2
115°	13.4	17.6	14.6	14.0	20.2	24.6
120°	13.3	16.9	13.4	9.0	14.0	16.2
125°	12.6	15.9	12.6	8.6	6.7	7.2
130°	11.0	14.8	11.0	7.8	6.0	2.8
135°	9.8	12.9	8.6	6.9	5.7	2.9
140°	8.1	12.6	7.8	7.9	5.3	2.8
145°	9.5	10.5	9.6	7.9	5.2	2.9
150°	9.6	10.3	9.5	7.4	4.7	2.9
155°	7.8	9.3	6.2	6.0	4.0	2.8
160°	5.9	5.2	5.3	5.2	3.8	2.9
165°	4.7	4.7	4.5	4.5	3.3	2.9
170°	4.3	4.5	4.3	3.6	3.1	2.6
175°	3.1	3.8	3.3	3.3	3.3	3.3
180°	3.1	3.1	3.1	3.1	3.1	3.1



Report Generated By 670246072 / DESKTOP-50001EG







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









(END OF REPORT)