

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: P855685

Luminaire Tested: **14SFS-L3C4-UNV-MED-4000K**

Issue Date: 7/17/2024



**Test Information**

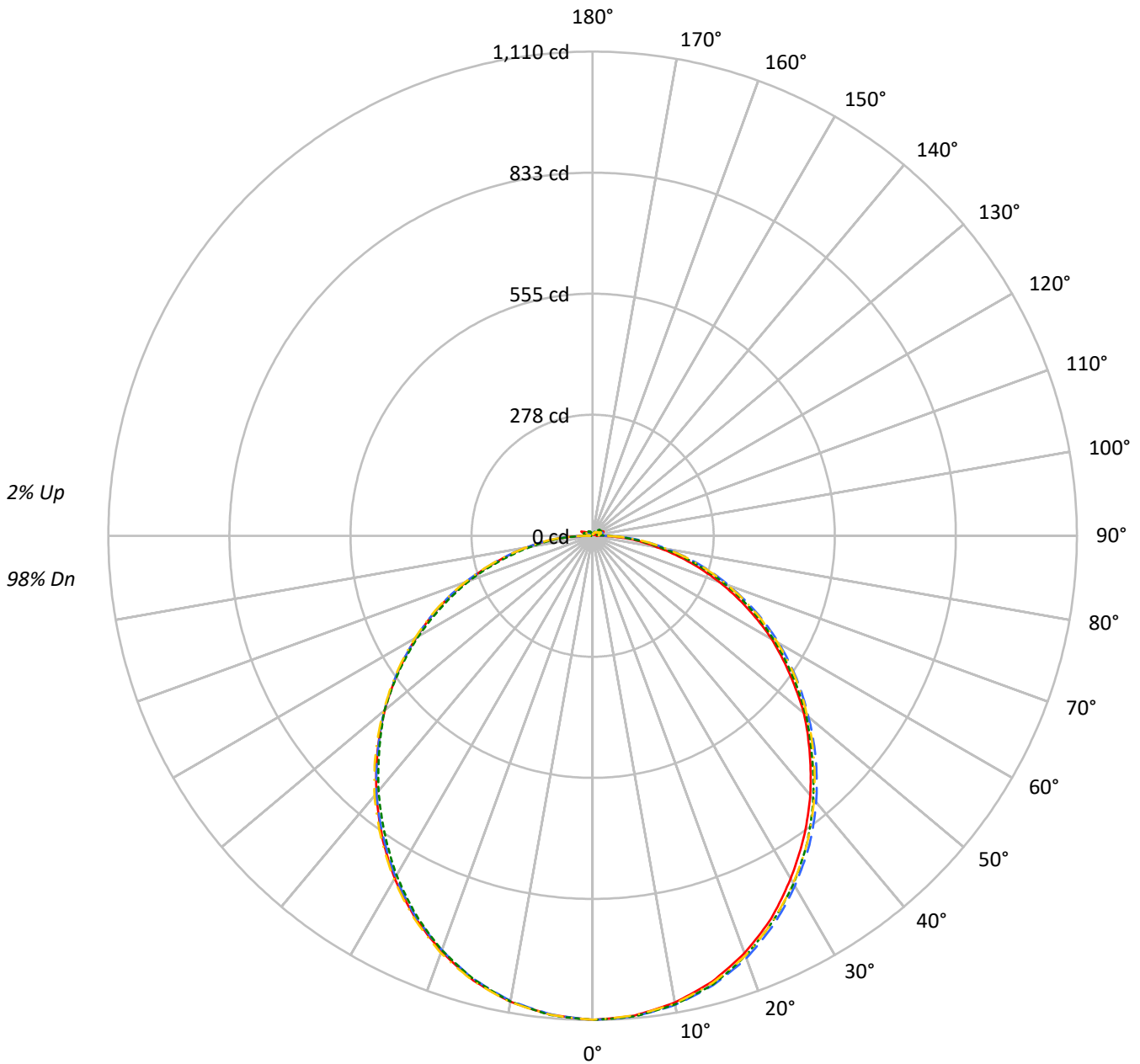
Test Method: LM-79-08  
Report Number: P855685  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( BL231218003-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14SFS-L3C4-UNV-MED-4000K  
Description: 1x4 Surround Frame Selectable - Architectural Slim LED Frame with,  
MED Lumen and 4000K CCT Settings  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3237.0 lumens  
Efficiency: N/A  
Efficacy: 129.5 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									
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	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°	3330	3330	3330	3330
5°	3326	3331	3320	3323
10°	3311	3324	3306	3304
15°	3288	3308	3280	3271
20°	3251	3273	3238	3229
25°	3207	3233	3195	3174
30°	3146	3192	3144	3114
35°	3092	3143	3084	3046
40°	3040	3083	3020	2990
45°	2986	3016	2960	2932
50°	2950	2978	2902	2906
55°	2881	2927	2848	2834
60°	2843	2888	2801	2766
65°	2772	2854	2759	2684
70°	2704	2826	2693	2627
75°	2622	2795	2613	2509
80°	2577	2796	2637	2428
85°	2979	3223	2899	2727



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.8	3.2
10°-20°	298.4	9.2
20°-30°	446.9	13.8
30°-40°	531.0	16.4
40°-50°	545.2	16.8
50°-60°	496.1	15.3
60°-70°	392.1	12.1
70°-80°	248.8	7.7
80°-90°	97.5	3.0
90°-100°	10.7	0.3
100°-110°	19.5	0.6
110°-120°	18.2	0.6
120°-130°	11.0	0.3
130°-140°	7.3	0.2
140°-150°	5.1	0.2
150°-160°	2.9	0.1
160°-170°	1.2	0.0
170°-180°	0.3	0.0
0°-30°	850.0	26.3
0°-40°	1381.1	42.7
0°-60°	2422.3	74.8
0°-90°	3160.8	97.6
90°-120°	48.4	1.5
90°-150°	71.8	2.2
90°-180°	76.0	2.3
0°-180°	3237.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1110	1110	1110	1110	1110	
5°	1104	1106	1102	1103	1104	105
15°	1058	1065	1056	1053	1058	298
25°	968	976	965	958	968	446
35°	844	858	842	831	844	528
45°	704	711	697	691	704	544
55°	551	559	544	542	551	494
65°	390	402	388	378	390	387
75°	226	241	225	216	226	240
85°	86	94	84	79	86	82
90°	11	31	7	6	11	16
95°	8	10	4	3	8	7
105°	23	23	21	21	23	21
115°	25	23	21	18	25	23
125°	7	21	6	16	7	8
135°	3	18	2	13	3	2
145°	3	13	3	11	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°	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6
5°	1104.0	1100.0	1106.0	1108.6	1105.8	1101.4	1103.7	1105.3	1101.9	1097.6	1101.2
10°	1086.4	1085.0	1092.0	1094.8	1090.6	1087.3	1088.5	1089.7	1084.7	1079.3	1082.6
15°	1058.2	1058.2	1066.9	1068.8	1064.8	1060.1	1061.3	1061.5	1055.6	1049.8	1052.1
20°	1017.9	1020.9	1030.6	1033.2	1024.7	1023.0	1024.2	1021.9	1013.7	1011.3	1010.8
25°	968.4	972.7	983.2	987.0	976.2	976.8	976.1	972.9	964.7	961.8	961.6
30°	907.7	919.0	927.1	931.2	921.1	922.5	919.6	917.3	907.2	903.3	903.3
35°	843.9	853.8	866.0	867.6	857.8	857.5	858.2	852.8	841.8	838.3	838.3
40°	775.9	786.4	797.5	800.3	786.9	788.1	789.5	781.8	770.8	770.0	771.2
45°	703.5	712.8	723.4	725.7	710.7	717.3	717.0	708.4	697.3	696.4	695.5
50°	631.9	638.5	645.8	650.0	637.8	641.3	642.2	636.2	621.6	623.2	623.2
55°	550.6	561.8	570.2	573.5	559.3	563.2	567.7	559.3	544.3	544.5	545.9
60°	473.6	481.8	492.7	497.3	481.1	487.3	488.7	480.7	466.6	466.8	467.3
65°	390.4	399.3	413.2	415.7	401.9	408.7	408.9	403.1	388.5	387.9	390.4
70°	308.1	321.5	331.6	332.5	322.0	326.6	328.1	324.0	306.9	308.8	309.0
75°	226.1	241.1	253.0	251.2	241.0	248.6	249.2	239.6	225.3	229.1	228.4
80°	149.1	164.1	172.1	171.7	161.8	170.9	171.6	161.8	152.6	153.8	152.6
85°	86.5	96.6	105.1	105.5	93.6	100.8	102.3	95.9	84.2	88.1	89.1
90°	10.6	18.3	26.5	37.3	31.4	29.8	27.7	15.0	7.3	6.6	6.5
95°	8.4	8.0	7.0	9.4	9.6	8.0	4.9	4.2	3.7	4.4	4.4
100°	7.3	7.1	11.2	9.6	7.0	12.7	6.8	3.7	3.3	4.4	18.1
105°	23.4	22.7	23.9	19.0	22.7	19.5	20.2	19.9	20.7	22.1	21.8
110°	26.5	24.6	23.5	21.3	24.2	19.0	20.4	23.0	27.7	22.0	16.9
115°	24.9	23.4	18.1	20.9	23.4	19.7	19.0	19.5	20.6	17.1	10.5
120°	16.4	15.9	13.4	19.4	22.0	18.8	13.6	15.9	14.8	12.9	7.8
125°	7.3	8.2	13.4	18.8	21.3	17.6	13.8	8.4	6.1	7.7	7.8
130°	2.8	7.7	12.7	18.1	20.6	16.9	13.3	6.8	2.4	7.3	8.0
135°	3.0	7.5	11.3	16.7	18.3	14.6	11.0	6.6	2.3	7.0	7.0
140°	2.8	6.8	9.6	12.7	15.0	12.4	9.8	6.1	2.4	6.5	9.4
145°	3.0	6.3	8.5	10.6	12.9	10.8	9.9	5.6	2.6	5.8	10.1
150°	3.0	5.9	7.7	10.1	11.0	9.4	8.7	5.1	2.6	5.2	8.9
155°	2.8	5.2	7.1	8.9	10.3	8.4	7.1	4.9	2.6	4.5	6.8
160°	3.0	4.4	5.6	7.0	5.4	6.6	5.2	4.0	2.4	3.8	5.4
165°	3.0	3.7	4.2	4.5	4.7	3.7	4.0	3.3	2.8	3.3	4.5
170°	2.6	3.3	3.5	3.7	4.9	3.5	3.5	3.0	2.6	3.0	3.7
175°	3.3	3.5	3.3	3.8	4.0	3.7	3.3	3.0	2.6	2.4	2.8
180°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6
5°	1103.2	1103.0	1098.5	1102.3	1104.4	1104.0
10°	1083.3	1084.2	1079.6	1085.7	1088.0	1086.4
15°	1051.7	1052.6	1050.0	1056.8	1059.6	1058.2
20°	1011.6	1010.9	1010.6	1017.9	1020.0	1017.9
25°	960.7	958.4	960.7	968.0	971.2	968.4
30°	901.1	898.6	903.2	910.1	915.2	907.7
35°	834.1	831.3	840.2	845.6	849.8	843.9
40°	764.7	763.2	770.1	777.8	778.3	775.9
45°	690.8	690.8	693.8	703.4	702.7	703.5
50°	616.5	622.3	620.2	625.6	629.4	631.9
55°	542.3	541.6	545.9	548.2	552.5	550.6
60°	463.1	460.8	465.9	470.9	472.9	473.6
65°	383.1	378.0	383.4	392.8	391.3	390.4
70°	300.8	299.4	303.0	311.1	310.4	308.1
75°	222.3	216.4	225.6	230.3	229.3	226.1
80°	145.8	140.5	149.6	153.3	152.9	149.1
85°	83.2	79.2	85.1	89.8	90.0	86.5
90°	5.9	6.1	7.1	9.1	9.8	10.6
95°	8.9	2.8	6.8	5.8	7.8	8.4
100°	17.6	14.6	16.6	16.2	7.5	7.3
105°	17.4	21.4	18.3	22.7	23.2	23.4
110°	15.0	19.2	15.7	19.4	22.3	26.5
115°	13.6	17.8	14.8	14.1	20.4	24.9
120°	13.4	17.1	13.6	9.1	14.1	16.4
125°	12.7	16.0	12.7	8.7	6.8	7.3
130°	11.2	15.0	11.2	7.8	6.1	2.8
135°	9.9	13.1	8.7	7.0	5.8	3.0
140°	8.2	12.7	7.8	8.0	5.4	2.8
145°	9.6	10.6	9.8	8.0	5.2	3.0
150°	9.8	10.5	9.6	7.5	4.7	3.0
155°	7.8	9.4	6.3	6.1	4.0	2.8
160°	5.9	5.2	5.4	5.2	3.8	3.0
165°	4.7	4.7	4.5	4.5	3.3	3.0
170°	4.4	4.5	4.4	3.7	3.1	2.6
175°	3.1	3.8	3.3	3.3	3.3	3.3
180°	3.2	3.2	3.2	3.2	3.2	3.2



Report Generated By 670246072 / DESKTOP-50001EG







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









(END OF REPORT)