

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: P855702

Luminaire Tested: **18SFS-L3C4-UNV-HIGH-5000K**

Issue Date: 7/17/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P855702  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( BL231218005-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 18SFS-L3C4-UNV-HIGH-5000K  
Description: 1x8 Surround Frame Selectable - Architectural Slim LED Frame with,  
HIGH Lumen and 5000K CCT Settings  
Light Source: -  
Ballast/Driver: -

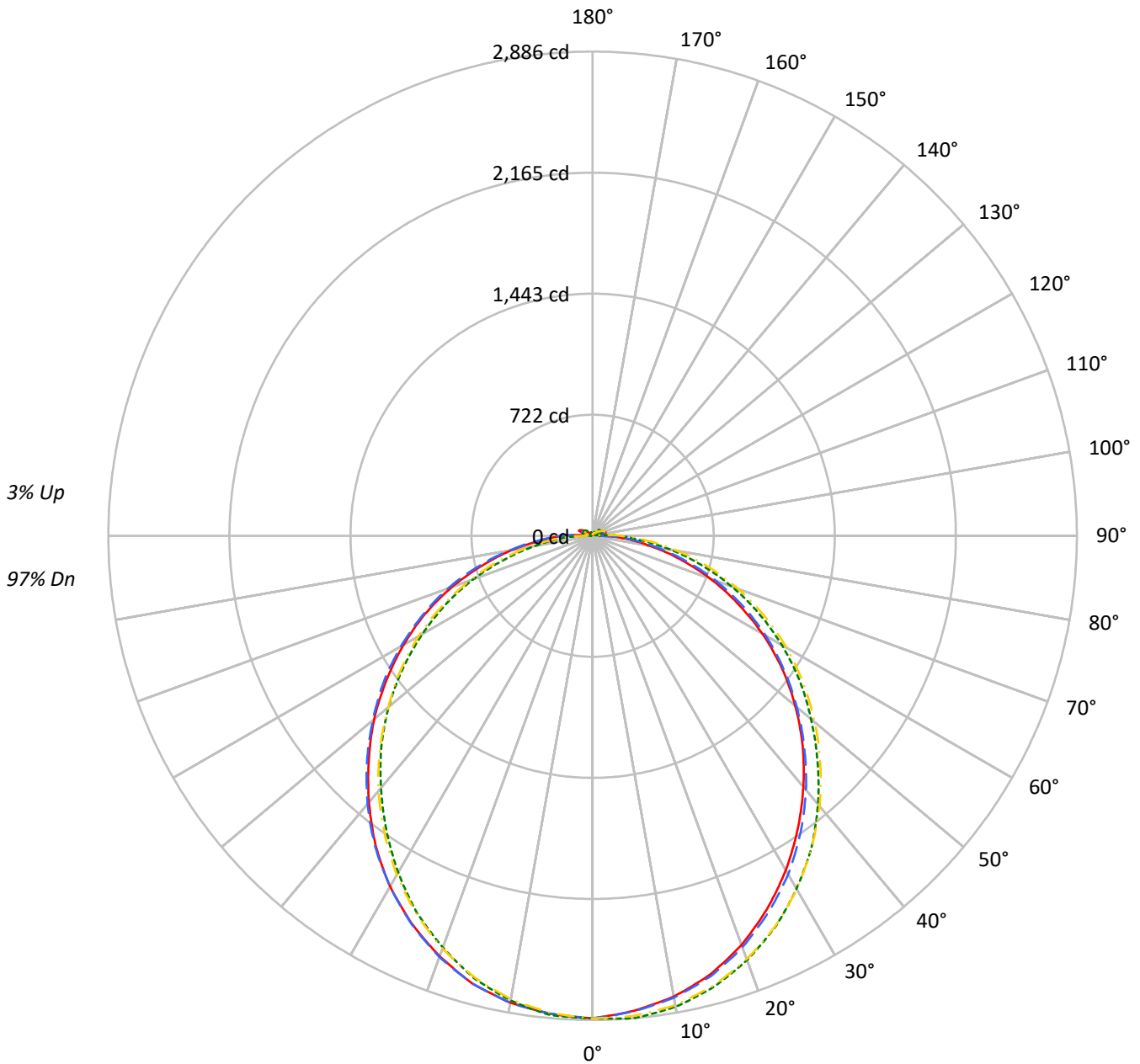
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8547.0 lumens  
Efficiency: N/A  
Efficacy: 142.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.35  
Luminous Opening: Rectangular (W 0.92' x L: 7.81' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 60  
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	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	93	104	100	95	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	97	89	82	76	94	86	80	74	82	77	72	79	74	70	75	71	68	68	68	66																	
3	89	78	69	63	86	76	68	62	72	66	60	69	64	59	66	61	57	57	57	55																	
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50	59	54	49	49	49	47																	
5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	47	43	43	43	40																	
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	38	38	35																	
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	33	33	31																	
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	30	30	28																	
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	27	27	25																	
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	23																	

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

	0°	90°	180°	270°
0°	4316	4316	4316	4316
5°	4281	4347	4309	4321
10°	4249	4344	4306	4287
15°	4206	4327	4294	4241
20°	4144	4298	4258	4170
25°	4068	4263	4223	4105
30°	3990	4210	4183	4016
35°	3905	4163	4129	3926
40°	3828	4094	4062	3843
45°	3755	4021	4003	3780
50°	3680	3967	3968	3705
55°	3604	3943	3924	3611
60°	3507	3907	3900	3514
65°	3383	3873	3908	3421
70°	3267	3868	3907	3307
75°	3116	3873	3923	3124
80°	2975	4039	4194	2998
85°	3340	4752	5091	3425



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.5	3.2
10°-20°	773.4	9.0
20°-30°	1160.2	13.6
30°-40°	1381.5	16.2
40°-50°	1421.7	16.6
50°-60°	1297.4	15.2
60°-70°	1031.5	12.1
70°-80°	663.2	7.8
80°-90°	285.4	3.3
90°-100°	59.4	0.7
100°-110°	61.2	0.7
110°-120°	57.6	0.7
120°-130°	37.3	0.4
130°-140°	22.2	0.3
140°-150°	12.5	0.1
150°-160°	7.3	0.1
160°-170°	3.0	0.0
170°-180°	0.8	0.0
0°-30°	2205.0	25.8
0°-40°	3586.5	42.0
0°-60°	6305.5	73.8
0°-90°	8285.6	96.9
90°-120°	178.2	2.1
90°-150°	250.2	2.9
90°-180°	261.0	3.1
0°-180°	8547.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2876	2876	2876	2876	2876	
5°	2842	2886	2860	2869	2842	270
15°	2707	2785	2764	2730	2707	763
25°	2457	2575	2551	2479	2457	1132
35°	2132	2272	2254	2143	2132	1335
45°	1770	1895	1886	1781	1770	1366
55°	1378	1507	1500	1380	1378	1231
65°	953	1091	1101	964	953	945
75°	537	668	677	539	537	571
85°	194	276	296	199	194	189
90°	43	155	175	34	43	44
95°	38	40	45	7	38	32
105°	81	51	54	62	81	72
115°	56	68	81	53	56	55
125°	20	53	49	55	20	21
135°	14	46	19	41	14	11
145°	8	29	7	28	8	6
155°	8	24	8	23	8	4
165°	7	11	7	12	7	2
175°	8	8	7	10	8	1
180°	8	8	8	8	8	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2876.2	2876.2	2876.2	2876.2	2876.2	2876.2	2876.2	2876.2	2876.2	2876.2	2876.2
5°	2841.9	2837.1	2844.9	2844.9	2886.1	2868.6	2872.1	2873.0	2860.3	2850.6	2859.8
10°	2788.4	2781.9	2795.0	2793.7	2851.1	2837.5	2840.6	2838.8	2826.1	2816.0	2826.5
15°	2707.4	2700.8	2718.4	2713.5	2785.4	2773.1	2775.7	2775.3	2764.3	2753.0	2763.5
20°	2595.3	2594.4	2610.2	2608.0	2691.2	2680.7	2685.1	2686.4	2666.2	2661.8	2671.5
25°	2456.9	2467.8	2477.4	2474.4	2574.7	2565.0	2571.2	2570.7	2550.6	2552.3	2553.7
30°	2302.7	2318.0	2330.3	2321.1	2429.7	2428.4	2432.8	2429.3	2413.9	2417.9	2414.8
35°	2131.8	2148.9	2160.3	2150.7	2272.4	2268.5	2273.3	2273.3	2254.1	2253.2	2260.6
40°	1954.0	1966.7	1978.1	1972.4	2089.8	2092.9	2105.1	2095.9	2073.6	2083.7	2087.2
45°	1769.6	1779.2	1783.2	1777.5	1894.9	1906.3	1919.0	1909.8	1886.1	1899.3	1901.4
50°	1576.4	1583.4	1588.7	1582.6	1699.1	1717.5	1728.0	1718.8	1699.5	1707.0	1709.2
55°	1377.6	1375.8	1391.2	1390.7	1507.2	1516.9	1532.2	1526.5	1499.8	1508.1	1520.4
60°	1168.6	1173.0	1191.0	1181.8	1301.8	1314.9	1334.6	1324.6	1299.6	1314.1	1318.9
65°	952.7	971.1	984.7	971.1	1090.7	1118.3	1127.0	1124.8	1100.7	1112.6	1116.5
70°	744.6	763.5	777.9	756.9	881.7	905.8	919.8	914.1	890.5	904.1	916.8
75°	537.4	559.8	570.7	554.5	668.0	693.8	713.5	702.6	676.7	701.7	705.7
80°	344.3	366.6	375.8	360.1	467.4	495.8	507.7	495.0	485.3	501.1	502.4
85°	194.0	215.1	214.6	202.8	276.0	307.5	321.9	308.8	295.7	315.8	319.3
90°	42.9	45.6	44.2	36.8	154.6	164.3	168.2	177.8	174.8	175.6	175.6
95°	38.1	35.9	28.5	25.8	40.3	38.5	45.1	45.1	45.1	43.8	39.4
100°	38.5	45.6	61.3	40.3	9.2	31.1	33.7	40.3	42.0	38.1	34.6
105°	80.6	75.8	65.7	49.5	51.2	52.6	68.3	69.6	54.3	66.1	64.8
110°	72.3	67.9	53.0	51.7	62.2	65.7	76.7	89.8	87.2	82.8	65.3
115°	56.5	54.8	40.3	49.9	67.5	58.7	71.0	78.0	80.6	77.5	63.1
120°	34.2	35.9	38.5	50.4	57.4	50.8	55.2	65.3	64.0	65.7	50.4
125°	20.1	28.5	35.0	46.4	53.4	45.1	44.2	46.9	48.6	45.1	42.5
130°	16.6	25.8	28.9	42.0	52.1	42.5	39.4	31.1	28.0	32.9	36.4
135°	14.5	22.8	23.7	34.6	46.0	39.0	26.7	25.4	19.3	28.0	25.8
140°	11.0	16.6	20.6	25.8	36.8	30.7	21.9	19.3	15.8	19.3	22.3
145°	7.9	14.9	19.3	24.1	29.3	25.4	21.9	13.1	7.0	15.8	22.3
150°	8.3	14.0	17.5	23.2	25.8	23.7	19.7	11.8	7.0	14.0	21.5
155°	7.9	12.3	15.3	19.7	24.1	21.9	17.5	11.4	7.9	12.7	17.5
160°	7.4	10.1	12.7	14.9	19.3	15.3	13.6	9.6	7.4	11.0	14.0
165°	7.4	8.8	11.0	9.6	11.4	11.0	11.0	8.8	7.4	9.6	12.3
170°	7.4	8.3	9.2	7.9	9.6	8.3	8.8	7.4	7.4	8.3	10.5
175°	8.3	7.9	8.3	8.8	8.3	8.3	7.4	7.4	7.4	7.4	8.3
180°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2876.2	2876.2	2876.2	2876.2	2876.2	2876.2
5°	2864.7	2868.6	2850.6	2855.0	2853.7	2841.9
10°	2825.7	2813.4	2795.0	2804.6	2800.3	2788.4
15°	2759.1	2730.2	2716.6	2723.2	2721.0	2707.4
20°	2666.2	2611.0	2608.4	2618.5	2613.7	2595.3
25°	2551.9	2479.2	2475.3	2486.2	2485.8	2456.9
30°	2411.3	2317.6	2328.5	2332.9	2334.2	2302.7
35°	2250.1	2143.2	2159.4	2162.9	2160.8	2131.8
40°	2076.7	1961.9	1974.6	1986.0	1974.6	1954.0
45°	1890.1	1781.0	1781.4	1792.4	1785.8	1769.6
50°	1698.6	1586.9	1589.6	1589.6	1589.6	1576.4
55°	1503.3	1380.2	1390.3	1397.3	1392.0	1377.6
60°	1308.8	1170.8	1180.5	1196.7	1182.7	1168.6
65°	1105.1	963.6	965.4	989.0	978.5	952.7
70°	895.8	753.8	770.5	777.5	763.0	744.6
75°	685.1	538.8	565.5	576.9	554.1	537.4
80°	487.1	346.9	371.9	380.2	361.8	344.3
85°	300.9	198.9	213.3	219.4	207.6	194.0
90°	161.6	33.7	40.3	45.1	45.1	42.9
95°	37.2	7.0	31.5	28.9	36.4	38.1
100°	33.7	51.2	60.9	62.2	41.2	38.5
105°	47.3	61.8	47.7	69.6	73.1	80.6
110°	46.4	56.5	40.3	60.4	68.3	72.3
115°	40.7	52.6	45.1	46.4	52.6	56.5
120°	47.3	59.6	45.1	36.8	33.7	34.2
125°	47.7	54.8	39.0	34.2	24.5	20.1
130°	45.6	47.7	34.2	29.3	21.5	16.6
135°	39.4	41.2	27.2	21.9	19.3	14.5
140°	30.7	31.1	24.1	21.9	12.3	11.0
145°	24.5	28.0	25.0	20.1	11.4	7.9
150°	24.1	27.6	22.8	18.0	11.0	8.3
155°	23.7	22.8	18.4	14.5	10.1	7.9
160°	14.5	13.6	15.3	12.7	8.8	7.4
165°	11.8	11.8	13.1	12.7	8.3	7.4
170°	11.4	10.1	10.5	8.8	8.3	7.4
175°	7.9	9.6	8.3	7.9	8.8	8.3
180°	8.2	8.2	8.2	8.2	8.2	8.2



Report Generated By 670246072 / DESKTOP-50001EG







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









(END OF REPORT)