

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: P855700

Luminaire Tested: **18SFS-L3C4-UNV-HIGH-3500K**

Issue Date: 7/17/2024



Test Information

Test Method: LM-79-08
Report Number: P855700
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-3500K
Description: 1x8 Surround Frame Selectable - Architectural Slim LED Frame with,
HIGH Lumen and 3500K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

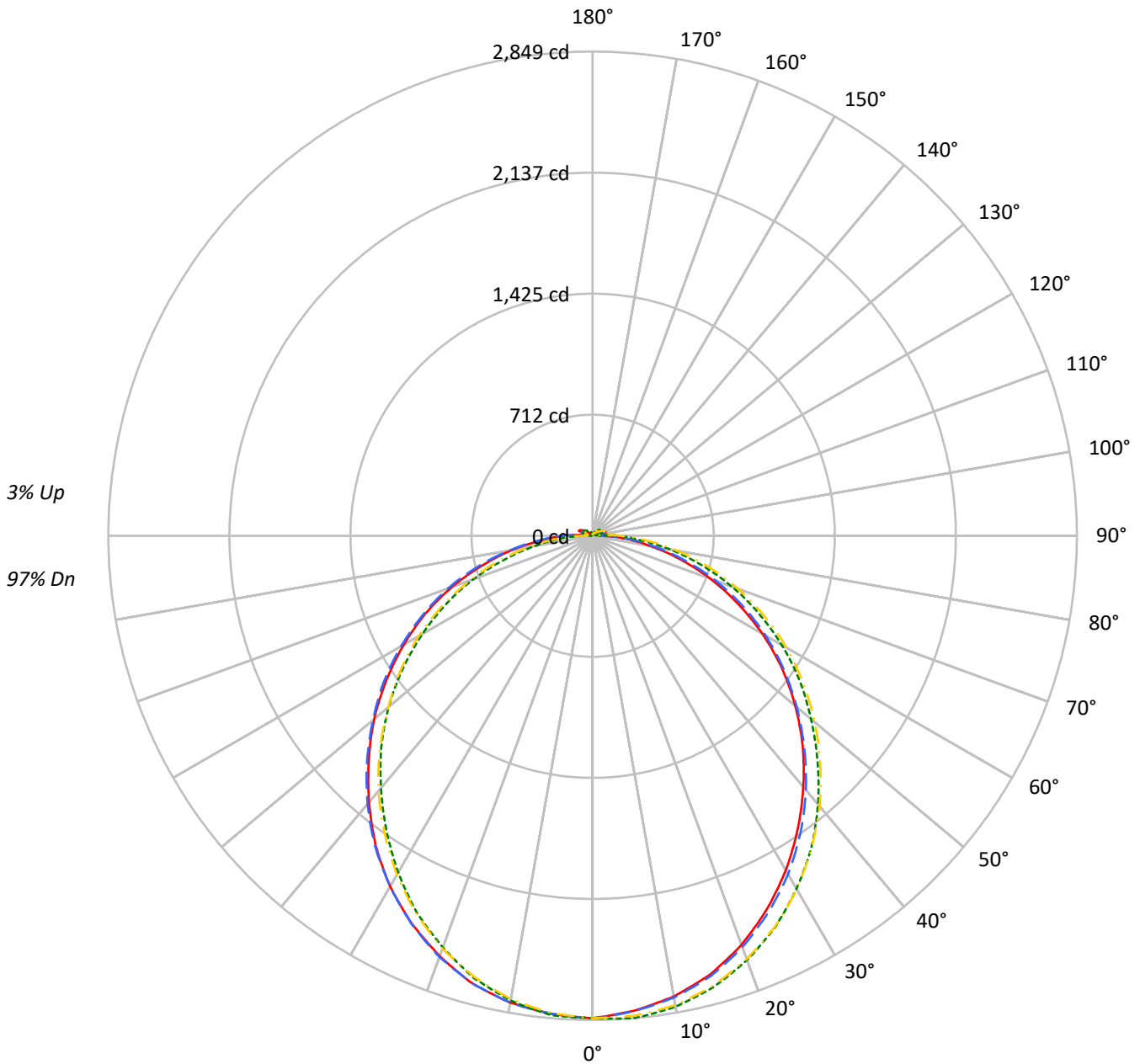
Lumens per Lamp: N/A
Luminaire Lumens: 8436.0 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.92' x L: 7.81' x H: 0')
CIE Type: Direct

Input Watts (W): 60
Input Voltage (V): NR
Input Current (A_{in}): 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: P855700

CATALOG NUMBER: 18SFS-L3C4-UNV-HIGH-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P855700

CATALOG NUMBER: 18SFS-L3C4-UNV-HIGH-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	98	93	104	100	95	92	95	91	88	90	88	85	86	84	82	82	82	82	80
2	97	89	82	76	94	86	80	74	82	77	72	79	74	70	75	71	68	68	68	68	66
3	89	78	69	63	86	76	68	62	72	66	60	69	64	59	66	61	57	57	57	57	55
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50	59	54	49	49	49	49	47
5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	47	43	43	43	43	40
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	38	38	38	35
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	33	33	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	30	30	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	27	27	27	25
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4260	4260	4260	4260
5°	4225	4291	4253	4265
10°	4194	4288	4250	4231
15°	4151	4271	4239	4186
20°	4091	4242	4202	4115
25°	4015	4208	4168	4052
30°	3938	4155	4128	3964
35°	3855	4109	4076	3875
40°	3778	4041	4009	3793
45°	3707	3969	3951	3731
50°	3633	3915	3916	3657
55°	3557	3892	3873	3564
60°	3462	3856	3850	3468
65°	3339	3822	3858	3377
70°	3225	3818	3856	3264
75°	3076	3823	3873	3083
80°	2936	3986	4139	2959
85°	3297	4690	5024	3380



TEST NUMBER: P855700

CATALOG NUMBER: 18SFS-L3C4-UNV-HIGH-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	3.2
10°-20°	763.3	9.0
20°-30°	1145.1	13.6
30°-40°	1363.5	16.2
40°-50°	1403.2	16.6
50°-60°	1280.5	15.2
60°-70°	1018.1	12.1
70°-80°	654.6	7.8
80°-90°	281.7	3.3
90°-100°	58.7	0.7
100°-110°	60.4	0.7
110°-120°	56.8	0.7
120°-130°	36.8	0.4
130°-140°	21.9	0.3
140°-150°	12.3	0.1
150°-160°	7.2	0.1
160°-170°	3.0	0.0
170°-180°	0.8	0.0
0°-30°	2176.4	25.8
0°-40°	3539.9	42.0
0°-60°	6223.6	73.8
0°-90°	8178.0	96.9
90°-120°	175.9	2.1
90°-150°	247.0	2.9
90°-180°	258.0	3.1
0°-180°	8436.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2839	2839	2839	2839	2839	
5°	2805	2849	2823	2831	2805	266
15°	2672	2749	2728	2695	2672	753
25°	2425	2541	2518	2447	2425	1117
35°	2104	2243	2225	2115	2104	1317
45°	1747	1870	1862	1758	1747	1348
55°	1360	1488	1480	1362	1360	1215
65°	940	1076	1086	951	940	933
75°	530	659	668	532	530	564
85°	192	272	292	196	192	187
90°	42	153	172	33	42	43
95°	38	40	44	7	38	32
105°	80	51	54	61	80	71
115°	56	67	80	52	56	54
125°	20	53	48	54	20	20
135°	14	45	19	41	14	11
145°	8	29	7	28	8	5
155°	8	24	8	22	8	4
165°	7	11	7	12	7	2
175°	8	8	7	10	8	1
180°	8	8	8	8	8	



TEST NUMBER: P855700

CATALOG NUMBER: 18SFS-L3C4-UNV-HIGH-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2838.8	2838.8	2838.8	2838.8	2838.8	2838.8	2838.8	2838.8	2838.8	2838.8	2838.8
5°	2805.0	2800.2	2808.0	2808.0	2848.6	2831.3	2834.8	2835.7	2823.1	2813.6	2822.7
10°	2752.2	2745.7	2758.7	2757.4	2814.0	2800.6	2803.7	2801.9	2789.4	2779.5	2789.8
15°	2672.2	2665.8	2683.0	2678.3	2749.2	2737.1	2739.7	2739.3	2728.4	2717.2	2727.6
20°	2561.6	2560.7	2576.3	2574.1	2656.2	2645.9	2650.2	2651.5	2631.6	2627.3	2636.8
25°	2424.9	2435.8	2445.3	2442.2	2541.2	2531.7	2537.8	2537.4	2517.5	2519.2	2520.5
30°	2272.8	2287.9	2300.0	2290.9	2398.1	2396.8	2401.2	2397.7	2382.6	2386.5	2383.4
35°	2104.2	2121.0	2132.3	2122.7	2242.9	2239.0	2243.8	2243.8	2224.8	2223.9	2231.3
40°	1928.6	1941.2	1952.4	1946.8	2062.7	2065.7	2077.8	2068.7	2046.7	2056.6	2060.1
45°	1746.6	1756.1	1760.0	1754.4	1870.3	1881.5	1894.0	1885.0	1861.6	1874.6	1876.8
50°	1556.0	1562.9	1568.1	1562.0	1677.0	1695.2	1705.5	1696.5	1677.4	1684.8	1687.0
55°	1359.7	1358.0	1373.1	1372.7	1487.7	1497.2	1512.3	1506.7	1480.3	1488.5	1500.6
60°	1153.5	1157.8	1175.5	1166.4	1284.9	1297.9	1317.3	1307.4	1282.7	1297.0	1301.7
65°	940.3	958.5	971.9	958.5	1076.5	1103.7	1112.4	1110.2	1086.4	1098.1	1102.0
70°	735.0	753.6	767.8	747.1	870.3	894.1	907.9	902.3	878.9	892.3	904.9
75°	530.5	552.5	563.3	547.3	659.3	684.8	704.3	693.5	668.0	692.6	696.5
80°	339.8	361.9	370.9	355.4	461.3	489.4	501.1	488.5	479.0	494.6	495.9
85°	191.5	212.3	211.8	200.2	272.4	303.5	317.8	304.8	291.8	311.7	315.2
90°	42.4	45.0	43.7	36.3	152.6	162.1	166.0	175.5	172.5	173.4	173.4
95°	37.6	35.5	28.1	25.5	39.8	38.0	44.5	44.5	44.5	43.2	38.9
100°	38.0	45.0	60.5	39.8	9.1	30.7	33.3	39.8	41.5	37.6	34.2
105°	79.5	74.8	64.8	48.9	50.6	51.9	67.4	68.7	53.6	65.3	64.0
110°	71.3	67.0	52.3	51.0	61.4	64.8	75.7	88.6	86.0	81.7	64.4
115°	55.8	54.0	39.8	49.3	66.6	57.9	70.0	77.0	79.5	76.5	62.3
120°	33.7	35.5	38.0	49.7	56.6	50.1	54.5	64.4	63.1	64.8	49.7
125°	19.9	28.1	34.6	45.8	52.7	44.5	43.7	46.3	48.0	44.5	41.9
130°	16.4	25.5	28.5	41.5	51.4	41.9	38.9	30.7	27.7	32.4	35.9
135°	14.3	22.5	23.3	34.2	45.4	38.5	26.4	25.1	19.0	27.7	25.5
140°	10.8	16.4	20.3	25.5	36.3	30.3	21.6	19.0	15.6	19.0	22.0
145°	7.8	14.7	19.0	23.8	29.0	25.1	21.6	13.0	6.9	15.6	22.0
150°	8.2	13.8	17.3	22.9	25.5	23.3	19.5	11.7	6.9	13.8	21.2
155°	7.8	12.1	15.1	19.5	23.8	21.6	17.3	11.2	7.8	12.5	17.3
160°	7.4	9.9	12.5	14.7	19.0	15.1	13.4	9.5	7.4	10.8	13.8
165°	7.4	8.6	10.8	9.5	11.2	10.8	10.8	8.6	7.4	9.5	12.1
170°	7.4	8.2	9.1	7.8	9.5	8.2	8.6	7.4	7.4	8.2	10.4
175°	8.2	7.8	8.2	8.6	8.2	8.2	7.4	7.4	7.4	7.4	8.2
180°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1



TEST NUMBER: P855700

CATALOG NUMBER: 18SFS-L3C4-UNV-HIGH-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2838.8	2838.8	2838.8	2838.8	2838.8	2838.8
5°	2827.4	2831.3	2813.6	2817.9	2816.6	2805.0
10°	2789.0	2776.9	2758.7	2768.2	2763.9	2752.2
15°	2723.3	2694.7	2681.3	2687.8	2685.6	2672.2
20°	2631.6	2577.1	2574.5	2584.5	2579.7	2561.6
25°	2518.8	2447.0	2443.1	2453.9	2453.5	2424.9
30°	2380.0	2287.5	2298.3	2302.6	2303.9	2272.8
35°	2220.9	2115.4	2131.4	2134.9	2132.7	2104.2
40°	2049.7	1936.4	1949.0	1960.2	1949.0	1928.6
45°	1865.5	1757.9	1758.3	1769.1	1762.6	1746.6
50°	1676.6	1566.3	1568.9	1568.9	1568.9	1556.0
55°	1483.8	1362.3	1372.2	1379.1	1373.9	1359.7
60°	1291.8	1155.6	1165.1	1181.1	1167.3	1153.5
65°	1090.8	951.1	952.9	976.2	965.8	940.3
70°	884.1	744.0	760.5	767.4	753.1	735.0
75°	676.2	531.8	558.1	569.4	546.9	530.5
80°	480.8	342.4	367.0	375.3	357.1	339.8
85°	297.0	196.3	210.5	216.6	204.9	191.5
90°	159.5	33.3	39.8	44.5	44.5	42.4
95°	36.7	6.9	31.1	28.5	35.9	37.6
100°	33.3	50.6	60.1	61.4	40.6	38.0
105°	46.7	61.0	47.1	68.7	72.2	79.5
110°	45.8	55.8	39.8	59.7	67.4	71.3
115°	40.2	51.9	44.5	45.8	51.9	55.8
120°	46.7	58.8	44.5	36.3	33.3	33.7
125°	47.1	54.0	38.5	33.7	24.2	19.9
130°	45.0	47.1	33.7	29.0	21.2	16.4
135°	38.9	40.6	26.8	21.6	19.0	14.3
140°	30.3	30.7	23.8	21.6	12.1	10.8
145°	24.2	27.7	24.6	19.9	11.2	7.8
150°	23.8	27.2	22.5	17.7	10.8	8.2
155°	23.3	22.5	18.2	14.3	9.9	7.8
160°	14.3	13.4	15.1	12.5	8.6	7.4
165°	11.7	11.7	13.0	12.5	8.2	7.4
170°	11.2	9.9	10.4	8.6	8.2	7.4
175°	7.8	9.5	8.2	7.8	8.6	8.2
180°	8.1	8.1	8.1	8.1	8.1	8.1



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)