

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: P855687

Luminaire Tested: **18SFS-L3C4-NUV-HIGH-3000K**

Issue Date: 7/17/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P855687  
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-NUV-HIGH-3000K  
Description: 1x8 Surround Frame Selectable - Architectural Slim LED Frame with,  
HIGH Lumen and 3000K CCT Settings  
Light Source: -  
Ballast/Driver: -

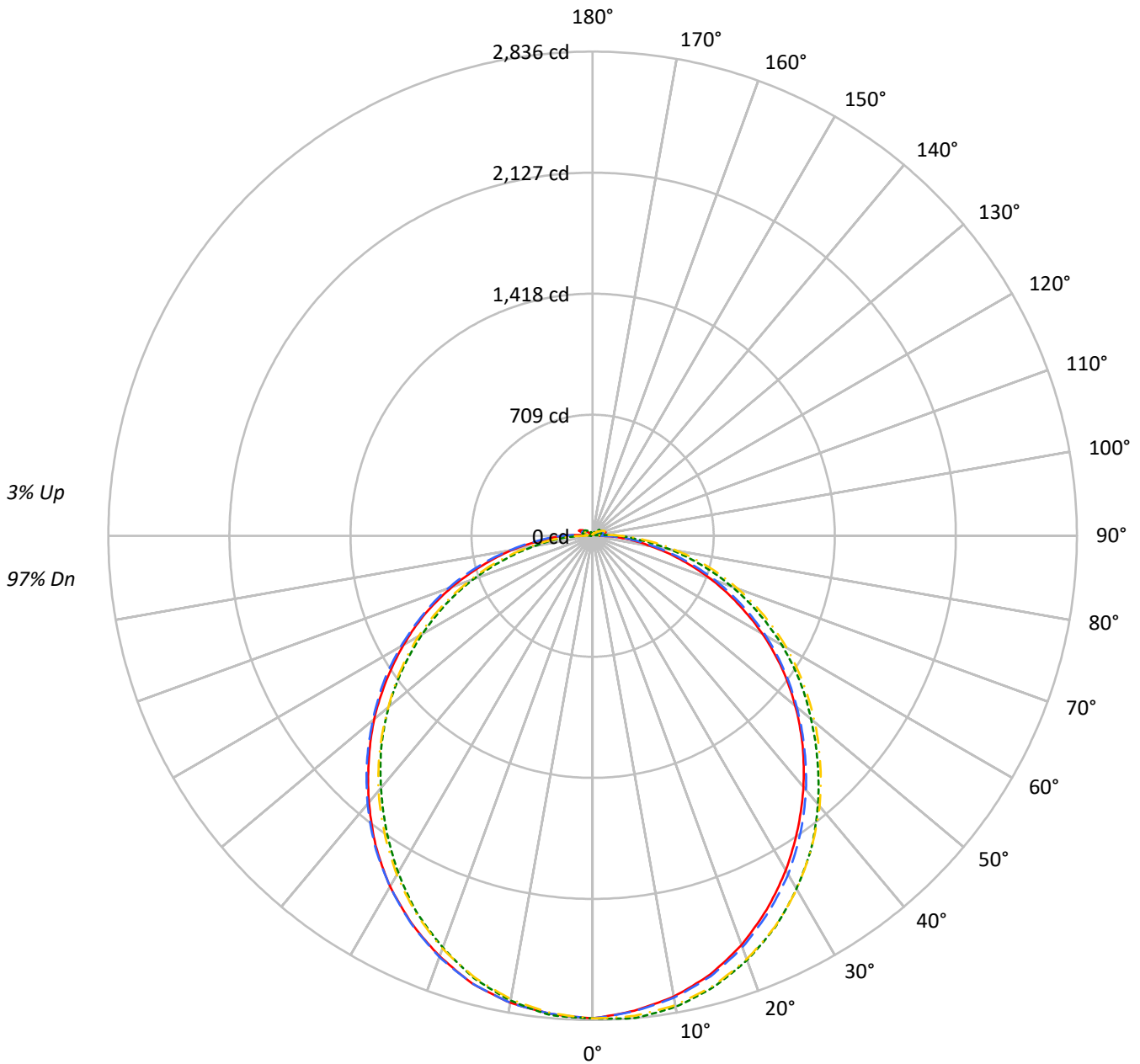
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8399.0 lumens  
Efficiency: N/A  
Efficacy: 140.0 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°	4241	4241	4241	4241
5°	4207	4272	4234	4246
10°	4175	4269	4232	4213
15°	4133	4252	4220	4168
20°	4073	4223	4184	4097
25°	3997	4189	4150	4034
30°	3921	4137	4110	3946
35°	3838	4091	4058	3858
40°	3761	4023	3992	3777
45°	3690	3952	3933	3714
50°	3616	3898	3899	3641
55°	3542	3875	3856	3548
60°	3447	3839	3833	3453
65°	3324	3806	3841	3363
70°	3210	3802	3839	3250
75°	3062	3806	3856	3069
80°	2923	3969	4121	2946
85°	3283	4669	5002	3364



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.8	3.2
10°-20°	760.0	9.0
20°-30°	1140.1	13.6
30°-40°	1357.5	16.2
40°-50°	1397.0	16.6
50°-60°	1274.9	15.2
60°-70°	1013.6	12.1
70°-80°	651.7	7.8
80°-90°	280.4	3.3
90°-100°	58.4	0.7
100°-110°	60.1	0.7
110°-120°	56.6	0.7
120°-130°	36.7	0.4
130°-140°	21.8	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°	2166.9	25.8
0°-40°	3524.4	42.0
0°-60°	6196.3	73.8
0°-90°	8142.1	96.9
90°-120°	175.1	2.1
90°-150°	245.9	2.9
90°-180°	257.0	3.1
0°-180°	8399.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2826	2826	2826	2826	2826	
5°	2793	2836	2811	2819	2793	265
15°	2660	2737	2716	2683	2660	750
25°	2414	2530	2506	2436	2414	1113
35°	2095	2233	2215	2106	2095	1312
45°	1739	1862	1854	1750	1739	1342
55°	1354	1481	1474	1356	1354	1210
65°	936	1072	1082	947	936	929
75°	528	656	665	529	528	561
85°	191	271	290	195	191	186
90°	42	152	172	33	42	43
95°	37	40	44	7	37	32
105°	79	50	53	61	79	71
115°	56	66	79	52	56	54
125°	20	52	48	54	20	20
135°	14	45	19	40	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: P855687

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4
5°	2792.7	2787.9	2795.7	2795.7	2836.1	2818.9	2822.4	2823.2	2810.7	2801.3	2810.3
10°	2740.2	2733.7	2746.6	2745.3	2801.7	2788.4	2791.4	2789.7	2777.2	2767.3	2777.6
15°	2660.5	2654.1	2671.3	2666.5	2737.1	2725.1	2727.7	2727.2	2716.5	2705.3	2715.6
20°	2550.3	2549.5	2565.0	2562.8	2644.6	2634.3	2638.6	2639.9	2620.1	2615.8	2625.2
25°	2414.3	2425.1	2434.5	2431.5	2530.1	2520.6	2526.7	2526.2	2506.4	2508.1	2509.4
30°	2262.8	2277.9	2289.9	2280.9	2387.6	2386.3	2390.6	2387.2	2372.1	2376.0	2373.0
35°	2094.9	2111.7	2122.9	2113.4	2233.1	2229.2	2234.0	2234.0	2215.0	2214.2	2221.5
40°	1920.2	1932.7	1943.8	1938.3	2053.6	2056.6	2068.7	2059.6	2037.7	2047.6	2051.0
45°	1739.0	1748.4	1752.3	1746.7	1862.1	1873.3	1885.7	1876.7	1853.5	1866.4	1868.5
50°	1549.1	1556.0	1561.2	1555.2	1669.7	1687.7	1698.1	1689.0	1670.1	1677.4	1679.6
55°	1353.7	1352.0	1367.1	1366.6	1481.1	1490.6	1505.7	1500.1	1473.8	1482.0	1494.0
60°	1148.4	1152.7	1170.4	1161.3	1279.3	1292.2	1311.5	1301.6	1277.1	1291.3	1296.0
65°	936.2	954.3	967.6	954.3	1071.8	1098.9	1107.5	1105.4	1081.7	1093.3	1097.2
70°	731.7	750.2	764.5	743.8	866.5	890.1	903.9	898.3	875.1	888.4	900.9
75°	528.1	550.1	560.9	544.9	656.4	681.8	701.2	690.4	665.0	689.6	693.4
80°	338.3	360.3	369.3	353.8	459.3	487.3	498.9	486.4	476.9	492.4	493.7
85°	190.7	211.3	210.9	199.3	271.2	302.2	316.4	303.5	290.5	310.3	313.8
90°	42.2	44.8	43.5	36.2	151.9	161.4	165.3	174.8	171.7	172.6	172.6
95°	37.4	35.3	28.0	25.4	39.6	37.9	44.3	44.3	44.3	43.0	38.7
100°	37.9	44.8	60.3	39.6	9.0	30.6	33.1	39.6	41.3	37.4	34.0
105°	79.2	74.5	64.6	48.6	50.4	51.7	67.1	68.4	53.4	65.0	63.7
110°	71.0	66.7	52.1	50.8	61.1	64.6	75.3	88.2	85.7	81.4	64.1
115°	55.5	53.8	39.6	49.1	66.3	57.7	69.7	76.6	79.2	76.2	62.0
120°	33.6	35.3	37.9	49.5	56.4	49.9	54.2	64.1	62.8	64.6	49.5
125°	19.8	28.0	34.4	45.6	52.5	44.3	43.5	46.1	47.8	44.3	41.8
130°	16.4	25.4	28.4	41.3	51.2	41.8	38.7	30.6	27.5	32.3	35.7
135°	14.2	22.4	23.2	34.0	45.2	38.3	26.3	25.0	18.9	27.5	25.4
140°	10.8	16.4	20.2	25.4	36.2	30.1	21.5	18.9	15.5	18.9	22.0
145°	7.7	14.6	18.9	23.7	28.8	25.0	21.5	12.9	6.9	15.5	22.0
150°	8.2	13.8	17.2	22.8	25.4	23.2	19.4	11.6	6.9	13.8	21.1
155°	7.7	12.1	15.1	19.4	23.7	21.5	17.2	11.2	7.7	12.5	17.2
160°	7.3	9.9	12.5	14.6	18.9	15.1	13.3	9.5	7.3	10.8	13.8
165°	7.3	8.6	10.8	9.5	11.2	10.8	10.8	8.6	7.3	9.5	12.1
170°	7.3	8.2	9.0	7.7	9.5	8.2	8.6	7.3	7.3	8.2	10.3
175°	8.2	7.7	8.2	8.6	8.2	8.2	7.3	7.3	7.3	7.3	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



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4
5°	2815.0	2818.9	2801.3	2805.6	2804.3	2792.7
10°	2776.7	2764.7	2746.6	2756.1	2751.8	2740.2
15°	2711.3	2682.9	2669.6	2676.0	2673.9	2660.5
20°	2620.1	2565.8	2563.2	2573.1	2568.4	2550.3
25°	2507.7	2436.3	2432.4	2443.2	2442.7	2414.3
30°	2369.5	2277.4	2288.2	2292.5	2293.8	2262.8
35°	2211.1	2106.1	2122.0	2125.5	2123.3	2094.9
40°	2040.7	1927.9	1940.4	1951.6	1940.4	1920.2
45°	1857.3	1750.1	1750.6	1761.3	1754.9	1739.0
50°	1669.2	1559.5	1562.0	1562.0	1562.0	1549.1
55°	1477.3	1356.3	1366.2	1373.1	1367.9	1353.7
60°	1286.1	1150.6	1160.0	1175.9	1162.2	1148.4
65°	1086.0	947.0	948.7	971.9	961.6	936.2
70°	880.2	740.8	757.1	764.0	749.8	731.7
75°	673.2	529.4	555.7	566.9	544.5	528.1
80°	478.6	340.9	365.4	373.6	355.5	338.3
85°	295.7	195.4	209.6	215.6	204.0	190.7
90°	158.8	33.1	39.6	44.3	44.3	42.2
95°	36.6	6.9	31.0	28.4	35.7	37.4
100°	33.1	50.4	59.8	61.1	40.5	37.9
105°	46.5	60.7	46.9	68.4	71.9	79.2
110°	45.6	55.5	39.6	59.4	67.1	71.0
115°	40.0	51.7	44.3	45.6	51.7	55.5
120°	46.5	58.5	44.3	36.2	33.1	33.6
125°	46.9	53.8	38.3	33.6	24.1	19.8
130°	44.8	46.9	33.6	28.8	21.1	16.4
135°	38.7	40.5	26.7	21.5	18.9	14.2
140°	30.1	30.6	23.7	21.5	12.1	10.8
145°	24.1	27.5	24.5	19.8	11.2	7.7
150°	23.7	27.1	22.4	17.6	10.8	8.2
155°	23.2	22.4	18.1	14.2	9.9	7.7
160°	14.2	13.3	15.1	12.5	8.6	7.3
165°	11.6	11.6	12.9	12.5	8.2	7.3
170°	11.2	9.9	10.3	8.6	8.2	7.3
175°	7.7	9.5	8.2	7.7	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)