

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: P855724

Luminaire Tested: **22SFS-L3C4-UNV-HIGH-3500K**

Issue Date: 7/17/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P855724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( BL231218006-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22SFS-L3C4-UNV-HIGH-3500K  
Description: 2x2 Surround Frame Selectable - Architectural Slim LED Frame with,  
HIGH Lumen and 3500K CCT Settings  
Light Source: -  
Ballast/Driver: -

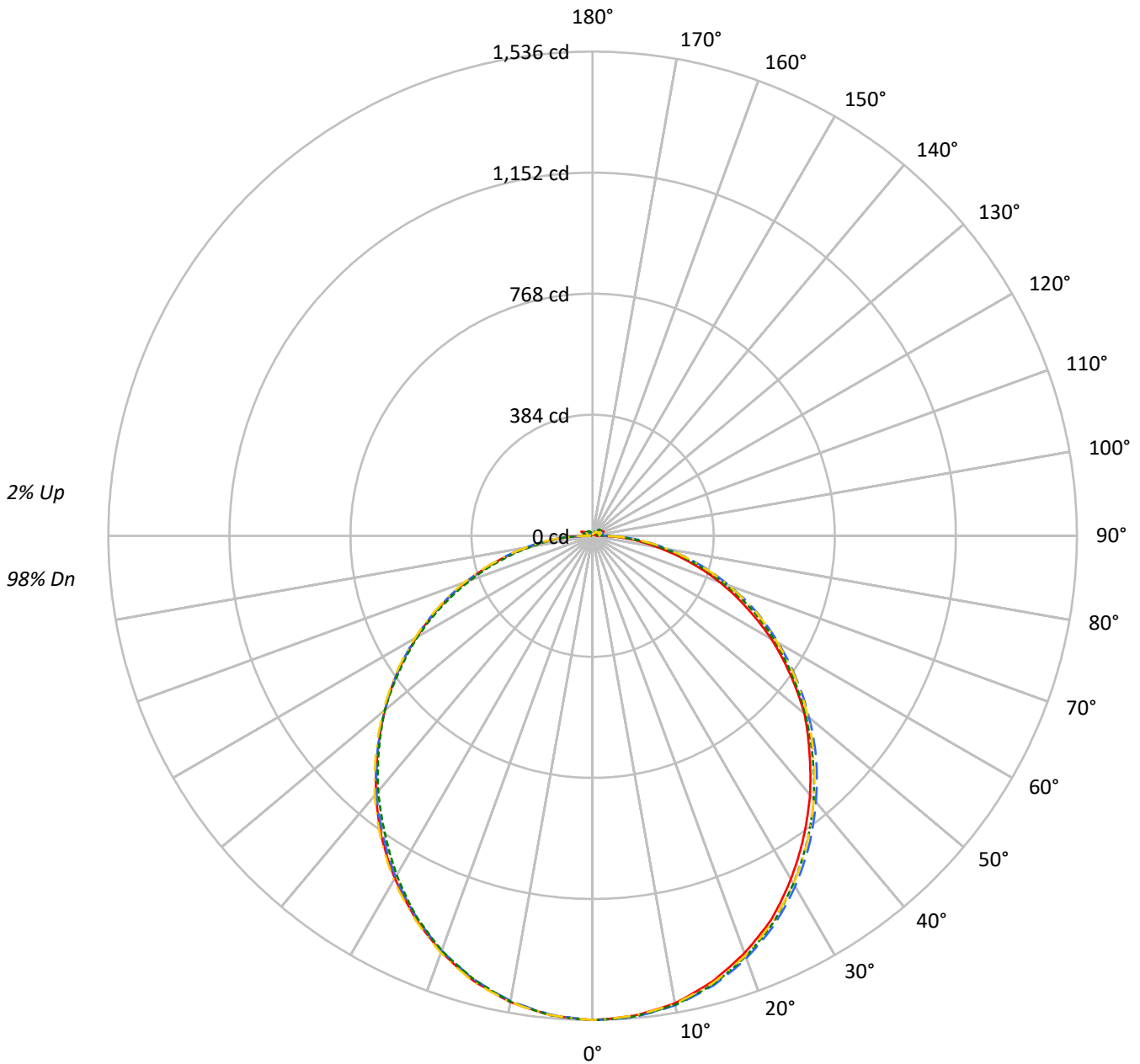
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4482.0 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.35  
Luminous Opening: Rectangular (W 0.92' x L: 7.81' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 36  
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°	2305	2305	2305	2305
5°	2302	2306	2299	2300
10°	2294	2301	2289	2286
15°	2275	2289	2270	2263
20°	2249	2268	2243	2235
25°	2223	2243	2210	2199
30°	2179	2207	2174	2153
35°	2137	2173	2138	2106
40°	2101	2137	2094	2073
45°	2064	2092	2045	2034
50°	2046	2058	2006	2009
55°	1998	2022	1977	1958
60°	1962	2004	1934	1922
65°	1911	1982	1904	1866
70°	1879	1950	1873	1811
75°	1823	1925	1818	1748
80°	1793	1952	1783	1699
85°	2045	2212	2033	1909



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.1	3.2
10°-20°	413.1	9.2
20°-30°	618.7	13.8
30°-40°	735.1	16.4
40°-50°	754.8	16.8
50°-60°	686.6	15.3
60°-70°	542.9	12.1
70°-80°	344.7	7.7
80°-90°	135.2	3.0
90°-100°	14.8	0.3
100°-110°	27.1	0.6
110°-120°	25.3	0.6
120°-130°	15.2	0.3
130°-140°	10.1	0.2
140°-150°	7.0	0.2
150°-160°	4.1	0.1
160°-170°	1.6	0.0
170°-180°	0.5	0.0
0°-30°	1176.8	26.3
0°-40°	1912.0	42.7
0°-60°	3353.4	74.8
0°-90°	4376.2	97.6
90°-120°	67.2	1.5
90°-150°	99.6	2.2
90°-180°	106.0	2.4
0°-180°	4482.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1536	1536	1536	1536	1536	
5°	1528	1531	1526	1527	1528	145
15°	1464	1474	1461	1457	1464	413
25°	1343	1355	1335	1328	1343	618
35°	1167	1186	1167	1150	1167	731
45°	972	986	964	958	972	752
55°	764	773	756	748	764	684
65°	538	558	536	525	538	535
75°	314	332	314	302	314	334
85°	119	128	118	111	119	114
90°	15	40	11	8	15	22
95°	11	14	5	4	11	9
105°	33	32	30	30	33	30
115°	35	32	28	25	35	32
125°	10	30	9	22	10	10
135°	4	26	3	18	4	3
145°	4	18	4	15	4	2
155°	4	14	4	13	4	2
165°	4	6	4	6	4	1
175°	5	6	4	6	5	0
180°	4	4	4	4	4	



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CATALOG NUMBER: 22SFS-L3C4-UNV-HIGH-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3
5°	1528.1	1523.2	1531.7	1535.3	1530.7	1524.7	1527.8	1530.5	1526.4	1519.6	1524.7
10°	1505.4	1502.0	1512.1	1515.3	1510.2	1503.9	1507.3	1508.0	1502.0	1495.5	1498.6
15°	1464.3	1464.8	1477.3	1480.5	1473.5	1467.0	1469.6	1468.9	1461.4	1454.9	1456.3
20°	1408.5	1413.6	1426.4	1430.0	1420.1	1416.7	1416.7	1414.5	1404.6	1399.1	1400.5
25°	1342.6	1347.9	1362.6	1365.3	1354.9	1351.2	1350.5	1348.8	1334.8	1330.2	1330.2
30°	1257.8	1270.8	1284.8	1290.1	1273.7	1273.2	1274.7	1268.6	1254.6	1252.0	1250.0
35°	1166.7	1183.6	1197.9	1202.5	1186.0	1188.0	1186.5	1179.0	1167.2	1162.4	1159.5
40°	1072.5	1090.1	1101.7	1103.2	1091.1	1092.5	1091.3	1084.1	1069.1	1068.4	1066.7
45°	972.5	988.2	1003.4	1003.4	986.0	990.8	990.8	982.6	963.8	962.8	965.0
50°	876.6	882.2	895.9	897.6	881.4	886.5	890.8	879.5	859.4	861.4	861.1
55°	763.8	779.0	787.7	795.4	772.7	781.7	784.3	773.2	755.8	752.4	754.4
60°	653.9	668.6	680.2	686.5	667.7	672.7	675.1	667.7	644.5	644.7	648.8
65°	538.2	554.4	573.7	573.9	558.2	564.3	571.5	556.3	536.2	539.1	538.4
70°	428.3	443.5	460.9	462.1	444.5	454.4	456.3	443.5	426.8	426.1	426.1
75°	314.5	335.8	348.6	349.3	332.1	342.3	343.5	337.0	313.5	315.7	318.1
80°	207.5	225.4	239.4	239.1	225.9	235.0	239.1	225.9	206.3	214.3	212.8
85°	118.8	135.3	146.6	144.9	128.5	138.7	143.0	131.6	118.1	123.0	122.5
90°	14.7	22.5	39.9	55.1	39.9	45.4	34.5	18.4	11.4	8.9	9.2
95°	11.4	10.9	9.7	12.8	14.0	11.1	7.0	6.0	5.3	6.0	6.0
100°	9.9	9.9	16.2	13.0	9.4	17.6	9.4	5.1	4.3	5.6	24.6
105°	33.1	31.4	32.6	26.8	31.6	27.1	27.8	27.8	29.7	30.7	30.2
110°	37.2	34.3	32.6	29.5	33.6	26.1	28.0	31.6	38.2	30.2	23.7
115°	35.3	32.1	24.9	29.0	32.4	27.5	25.8	27.3	28.0	23.4	14.5
120°	22.7	22.5	18.8	26.6	30.7	26.1	19.1	22.0	20.5	18.1	10.6
125°	9.7	11.8	18.1	25.8	29.5	24.4	19.1	10.9	8.7	10.6	10.4
130°	4.1	10.9	17.9	25.1	28.7	23.4	18.1	9.4	3.4	9.9	10.9
135°	4.1	9.9	15.7	23.2	25.6	20.3	15.2	8.9	3.4	9.4	9.9
140°	4.1	9.4	12.8	17.2	20.5	16.9	13.3	8.2	3.6	8.7	12.8
145°	3.9	8.9	11.8	14.7	17.9	15.0	13.8	8.0	3.9	8.0	14.0
150°	3.9	8.5	10.6	14.3	15.5	13.3	12.1	7.2	3.6	7.2	12.1
155°	4.1	7.2	9.7	12.1	14.5	11.8	9.7	6.8	3.9	6.5	9.7
160°	4.1	6.3	7.7	9.4	7.5	9.2	7.2	5.3	3.6	5.3	7.7
165°	4.1	5.1	5.8	6.0	6.5	5.3	5.3	4.6	3.6	4.6	6.0
170°	4.1	4.6	5.1	5.3	7.0	4.8	4.6	4.1	3.4	4.1	4.8
175°	4.6	4.8	5.1	5.1	5.6	5.1	4.3	3.9	3.9	3.6	4.3
180°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3
5°	1527.6	1527.1	1520.3	1526.1	1530.2	1528.1
10°	1500.5	1500.5	1495.2	1502.2	1505.8	1505.4
15°	1457.8	1456.6	1453.9	1463.6	1466.5	1464.3
20°	1399.6	1399.8	1395.7	1407.8	1413.3	1408.5
25°	1328.8	1328.3	1330.7	1338.7	1345.7	1342.6
30°	1249.1	1242.5	1251.2	1261.1	1265.5	1257.8
35°	1159.9	1149.5	1161.6	1172.0	1174.7	1166.7
40°	1057.0	1058.0	1064.5	1075.2	1079.0	1072.5
45°	955.6	958.5	964.8	971.8	974.7	972.5
50°	855.8	860.4	859.9	867.7	869.3	876.6
55°	749.1	748.3	754.1	760.7	766.4	763.8
60°	639.6	640.4	643.0	652.9	655.8	653.9
65°	528.8	525.4	532.6	541.8	543.3	538.2
70°	418.4	412.8	420.8	432.4	428.0	428.3
75°	306.3	301.5	310.6	320.1	316.0	314.5
80°	203.4	196.6	205.3	213.3	209.7	207.5
85°	115.9	110.9	119.1	123.0	125.6	118.8
90°	8.2	8.5	9.9	12.6	14.0	14.7
95°	12.1	4.3	9.2	8.2	10.9	11.4
100°	24.9	19.8	23.2	22.2	10.6	9.9
105°	24.2	30.0	25.8	31.4	32.4	33.1
110°	20.5	26.8	22.0	27.1	31.2	37.2
115°	18.6	25.1	20.8	19.1	28.5	35.3
120°	18.6	24.4	18.8	12.8	19.6	22.7
125°	17.6	22.5	17.6	11.8	9.7	9.7
130°	15.7	21.3	15.7	10.9	8.2	4.1
135°	13.5	18.4	12.3	9.7	8.0	4.1
140°	11.4	18.1	10.9	10.9	7.5	4.1
145°	13.5	15.2	13.5	11.4	7.0	3.9
150°	13.3	15.0	13.3	10.6	6.5	3.9
155°	10.4	13.0	8.9	8.2	6.0	4.1
160°	8.0	8.0	7.5	7.5	5.3	4.1
165°	6.5	6.3	6.5	6.3	4.6	4.1
170°	5.8	6.8	6.0	4.8	4.6	4.1
175°	4.1	5.6	4.8	4.8	4.6	4.6
180°	4.4	4.4	4.4	4.4	4.4	4.4



Report Generated By 670246072 / DESKTOP-50001EG







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









(END OF REPORT)