

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: P855756

Luminaire Tested: **24SFS-L3C4-UNV-MED-3500K**

Issue Date: 7/17/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P855756  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( BL231218008-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SFS-L3C4-UNV-MED-3500K  
Description: 2x4 Surround Frame Selectable - Architectural Slim LED Frame with,  
MED Lumen and 3500K CCT Settings  
Light Source: -  
Ballast/Driver: -

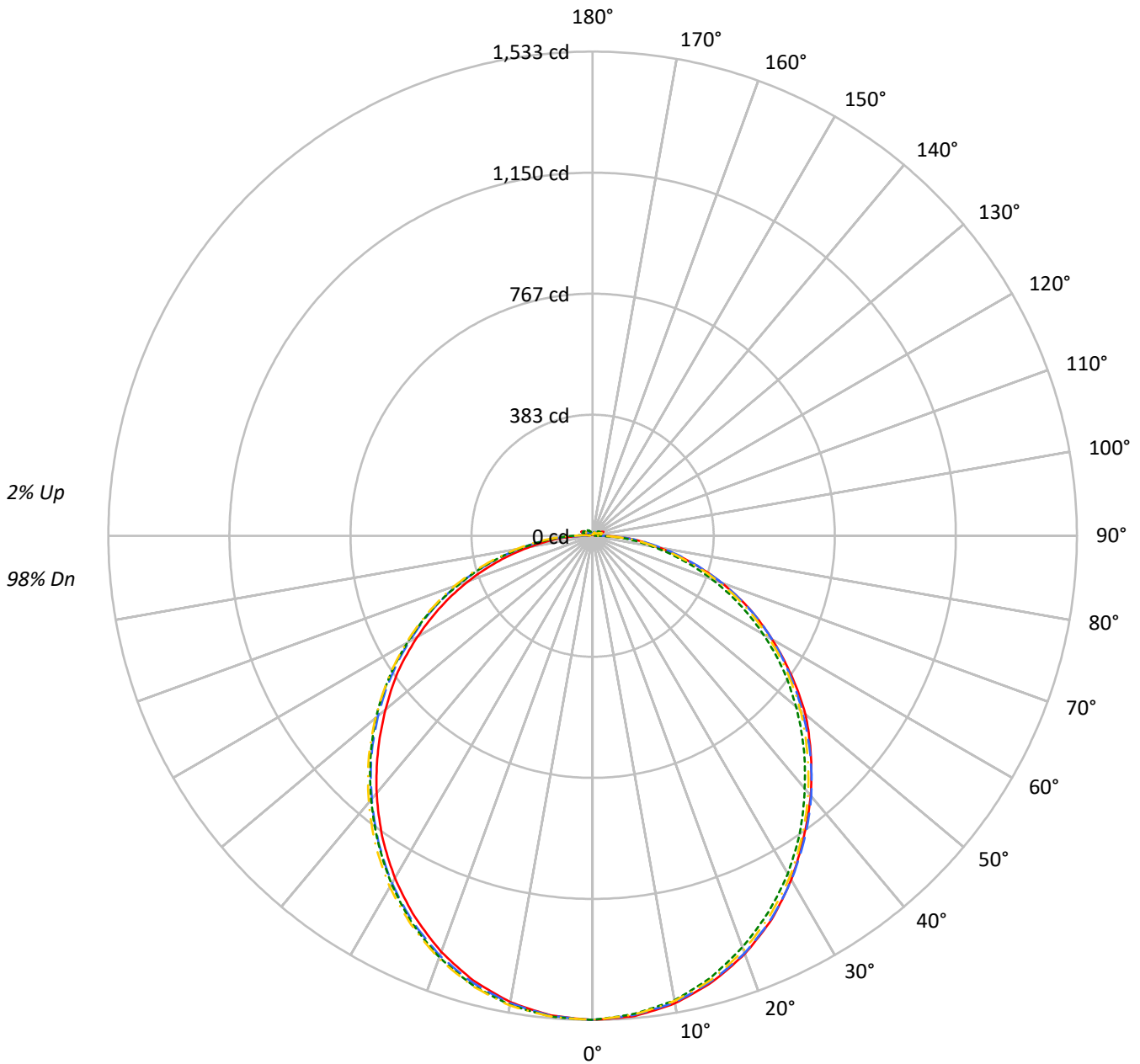
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4472.0 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.35  
Luminous Opening: Rectangular (W 1.9' x L: 3.9' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 35  
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					
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	55	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°	2221	2221	2221	2221
5°	2220	2209	2216	2222
10°	2211	2197	2206	2218
15°	2194	2171	2187	2208
20°	2172	2137	2161	2189
25°	2143	2103	2129	2163
30°	2104	2067	2094	2130
35°	2060	2025	2054	2095
40°	2031	1975	2012	2064
45°	2001	1935	1968	2038
50°	1983	1893	1928	2018
55°	1936	1856	1902	1989
60°	1901	1805	1855	1963
65°	1879	1758	1812	1941
70°	1836	1699	1763	1910
75°	1786	1625	1714	1909
80°	1770	1565	1663	1922
85°	2111	1736	1850	2282



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.7	3.2
10°-20°	412.0	9.2
20°-30°	617.2	13.8
30°-40°	733.3	16.4
40°-50°	753.3	16.8
50°-60°	685.3	15.3
60°-70°	541.5	12.1
70°-80°	343.4	7.7
80°-90°	135.8	3.0
90°-100°	15.6	0.3
100°-110°	26.8	0.6
110°-120°	25.0	0.6
120°-130°	15.0	0.3
130°-140°	10.0	0.2
140°-150°	7.0	0.2
150°-160°	4.1	0.1
160°-170°	1.6	0.0
170°-180°	0.4	0.0
0°-30°	1173.9	26.3
0°-40°	1907.2	42.6
0°-60°	3345.9	74.8
0°-90°	4366.5	97.6
90°-120°	67.4	1.5
90°-150°	99.4	2.2
90°-180°	106.0	2.4
0°-180°	4472.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1533	1533	1533	1533	1533	
5°	1526	1519	1524	1528	1526	145
15°	1463	1447	1458	1472	1463	413
25°	1341	1316	1332	1353	1341	617
35°	1165	1145	1161	1184	1165	730
45°	976	944	960	994	976	755
55°	767	735	753	787	767	687
65°	548	513	528	566	548	541
75°	319	290	306	341	319	339
85°	127	104	111	137	127	120
90°	22	8	14	56	22	24
95°	6	3	11	20	6	8
105°	26	30	33	30	26	24
115°	28	26	34	32	28	28
125°	10	23	8	28	10	10
135°	4	18	4	26	4	3
145°	4	14	4	19	4	2
155°	4	13	4	15	4	2
165°	4	6	4	7	4	1
175°	4	5	5	6	4	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1532.6	1532.6	1532.6	1532.6	1532.6	1532.6	1532.6	1532.6	1532.6	1532.6	1532.6
5°	1526.4	1519.0	1522.8	1522.8	1519.0	1515.1	1521.4	1522.6	1524.0	1519.9	1524.8
10°	1503.1	1496.1	1499.7	1497.8	1493.3	1488.2	1495.4	1498.3	1499.3	1496.6	1502.9
15°	1462.7	1457.7	1458.4	1456.9	1447.3	1444.9	1454.3	1458.4	1457.9	1458.9	1465.4
20°	1408.6	1403.6	1406.4	1400.9	1386.3	1390.3	1396.8	1400.7	1401.4	1405.7	1414.4
25°	1340.6	1336.2	1338.2	1332.6	1315.6	1320.1	1326.9	1333.6	1331.7	1339.1	1348.0
30°	1257.4	1257.1	1258.3	1254.5	1235.5	1238.4	1247.7	1253.0	1251.6	1261.9	1270.1
35°	1164.8	1170.8	1169.8	1163.1	1144.8	1148.2	1158.1	1161.9	1161.2	1173.7	1182.3
40°	1073.9	1074.4	1076.8	1065.0	1044.3	1053.7	1061.9	1063.1	1063.8	1077.3	1087.6
45°	976.5	972.2	973.9	965.2	944.5	952.0	959.7	963.5	960.4	975.8	990.7
50°	879.6	867.6	866.4	860.6	839.9	847.1	858.4	859.4	855.3	873.8	886.3
55°	766.6	765.6	760.6	756.5	734.6	742.5	751.4	752.4	752.9	764.7	779.6
60°	656.0	655.5	656.7	646.6	623.0	633.9	642.5	643.0	640.1	659.6	670.6
65°	548.0	542.7	546.8	537.9	512.9	522.8	535.0	533.8	528.5	546.1	563.2
70°	433.5	432.8	434.0	423.2	401.1	410.0	421.8	421.3	416.2	436.9	454.2
75°	319.1	325.8	323.4	312.6	290.2	302.0	310.0	308.5	306.1	324.1	338.1
80°	212.1	219.3	220.3	206.3	187.6	197.4	204.6	204.4	199.3	217.9	233.5
85°	127.0	129.8	129.8	119.3	104.4	112.3	120.5	116.6	111.3	129.1	138.0
90°	21.9	9.1	8.9	8.4	7.7	9.9	12.5	13.7	14.2	18.3	23.6
95°	5.5	6.5	6.5	11.1	2.9	9.4	7.5	10.1	10.8	10.3	8.7
100°	5.0	5.8	21.9	23.6	22.1	23.6	25.5	10.3	10.1	9.9	17.6
105°	25.5	28.9	30.1	24.0	30.1	25.7	30.8	32.0	33.4	31.5	32.9
110°	36.6	29.3	23.6	21.2	27.9	22.4	25.7	30.8	37.3	34.6	32.2
115°	28.1	23.1	14.9	18.8	25.7	21.2	18.3	27.7	34.1	32.5	24.0
120°	20.2	17.8	10.6	18.3	24.3	20.0	12.5	19.5	21.4	21.4	18.3
125°	9.6	11.5	10.8	17.8	23.1	18.0	11.8	9.6	8.4	10.6	18.0
130°	3.6	10.8	11.3	15.6	20.2	15.9	10.8	8.9	3.6	10.1	16.6
135°	4.1	10.3	9.9	14.2	18.3	12.3	9.9	8.2	3.6	9.4	14.7
140°	3.6	9.6	13.5	11.8	16.8	11.3	11.5	7.7	3.6	8.9	12.5
145°	3.8	8.7	14.2	12.7	14.4	13.9	11.8	7.2	3.6	8.2	11.3
150°	3.6	7.5	12.3	13.0	14.9	13.9	10.8	7.0	3.8	7.7	10.1
155°	3.8	7.0	10.1	11.5	13.0	10.3	8.2	6.0	3.8	7.0	9.1
160°	4.1	5.8	7.2	8.4	7.7	7.9	6.7	5.0	3.6	6.0	7.9
165°	3.8	4.6	5.3	4.6	6.3	4.8	4.8	4.1	3.8	5.0	6.7
170°	3.8	4.1	4.3	4.6	6.3	5.5	4.3	3.8	3.8	4.6	5.5
175°	3.6	3.8	4.3	4.8	4.8	4.6	4.3	4.6	4.6	4.6	4.8
180°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1532.6	1532.6	1532.6	1532.6	1532.6	1532.6
5°	1526.9	1527.6	1522.4	1527.9	1526.9	1526.4
10°	1506.2	1507.7	1503.8	1510.1	1506.2	1503.1
15°	1469.7	1472.3	1467.8	1474.7	1470.2	1462.7
20°	1417.8	1419.7	1419.2	1423.8	1418.2	1408.6
25°	1352.3	1353.1	1355.5	1358.8	1353.1	1340.6
30°	1275.9	1273.2	1279.5	1284.1	1274.2	1257.4
35°	1187.9	1184.3	1190.3	1197.5	1188.4	1164.8
40°	1091.4	1091.2	1101.3	1102.3	1092.6	1073.9
45°	990.0	994.5	1000.1	1003.2	990.0	976.5
50°	886.3	895.5	895.2	896.9	884.9	879.6
55°	782.7	787.3	790.2	789.9	782.7	766.6
60°	674.0	677.4	684.3	682.9	674.7	656.0
65°	563.9	566.3	570.6	573.3	561.7	548.0
70°	450.6	450.9	459.8	464.8	448.5	433.5
75°	341.2	341.0	349.4	353.0	340.5	319.1
80°	232.0	230.4	244.1	244.1	229.4	212.1
85°	135.6	137.3	147.9	150.8	139.9	127.0
90°	38.7	55.8	58.7	54.1	37.5	21.9
95°	12.3	19.5	12.5	7.7	6.7	5.5
100°	13.7	7.7	17.1	8.4	5.3	5.0
105°	26.7	30.5	27.7	26.9	26.7	25.5
110°	29.1	32.2	25.2	28.6	31.3	36.6
115°	28.1	32.0	26.0	26.0	26.7	28.1
120°	26.9	29.1	24.8	18.8	22.4	20.2
125°	26.0	28.4	23.6	18.5	11.5	9.6
130°	24.8	27.4	22.4	17.3	8.9	3.6
135°	21.2	26.5	18.8	14.4	8.9	4.1
140°	16.8	20.9	17.1	12.7	8.2	3.6
145°	15.1	18.8	14.4	13.0	7.7	3.8
150°	13.7	16.1	12.7	11.5	7.0	3.6
155°	10.6	14.7	10.8	9.4	6.5	3.8
160°	8.2	8.2	8.4	7.9	5.8	4.1
165°	7.0	7.2	7.0	6.5	5.0	3.8
170°	6.5	7.2	6.3	5.3	4.3	3.8
175°	4.8	6.3	4.8	4.1	4.1	3.6
180°	4.3	4.3	4.3	4.3	4.3	4.3



Report Generated By 670246072 / DESKTOP-50001EG







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









(END OF REPORT)