

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: P855754

Luminaire Tested: **24SFS-L3C4-UNV-LOW-5000K**

Issue Date: 7/17/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P855754  
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-LOW-5000K  
Description: 2x4 Surround Frame Selectable - Architectural Slim LED Frame with,  
LOW Lumen and 5000K CCT Settings  
Light Source: -  
Ballast/Driver: -

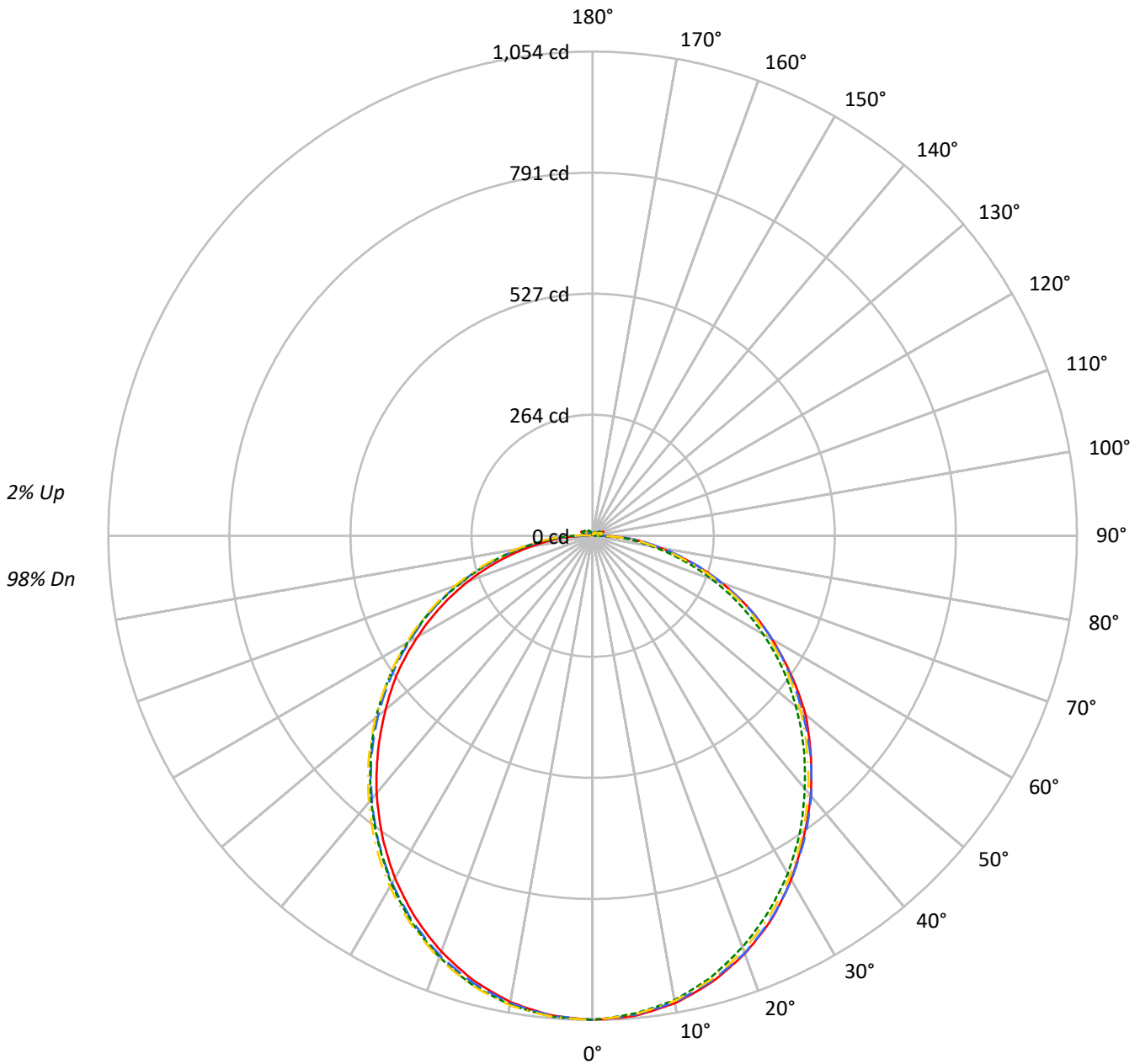
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3074.0 lumens  
Efficiency: N/A  
Efficacy: 133.7 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): 23  
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	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°	1526	1526	1526	1526
5°	1526	1519	1524	1527
10°	1520	1510	1516	1525
15°	1508	1492	1503	1518
20°	1493	1469	1485	1505
25°	1473	1446	1463	1487
30°	1446	1421	1439	1464
35°	1416	1392	1412	1440
40°	1396	1358	1383	1419
45°	1375	1330	1353	1401
50°	1363	1301	1325	1387
55°	1331	1276	1307	1367
60°	1307	1241	1275	1349
65°	1291	1209	1245	1335
70°	1262	1168	1212	1313
75°	1228	1117	1178	1312
80°	1217	1075	1143	1321
85°	1451	1192	1272	1569



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.5	3.2
10°-20°	283.2	9.2
20°-30°	424.2	13.8
30°-40°	504.0	16.4
40°-50°	517.8	16.8
50°-60°	471.1	15.3
60°-70°	372.2	12.1
70°-80°	236.0	7.7
80°-90°	93.3	3.0
90°-100°	10.7	0.3
100°-110°	18.4	0.6
110°-120°	17.2	0.6
120°-130°	10.3	0.3
130°-140°	6.9	0.2
140°-150°	4.8	0.2
150°-160°	2.8	0.1
160°-170°	1.1	0.0
170°-180°	0.3	0.0
0°-30°	806.9	26.3
0°-40°	1311.0	42.6
0°-60°	2299.9	74.8
0°-90°	3001.5	97.6
90°-120°	46.3	1.5
90°-150°	68.3	2.2
90°-180°	73.0	2.4
0°-180°	3074.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1054	1054	1054	1054	1054	
5°	1049	1044	1048	1050	1049	100
15°	1006	995	1002	1012	1006	284
25°	922	904	915	930	922	424
35°	801	787	798	814	801	502
45°	671	649	660	684	671	519
55°	527	505	518	541	527	472
65°	377	353	363	389	377	372
75°	219	200	210	234	219	233
85°	87	72	76	94	87	82
90°	15	5	10	38	15	17
95°	4	2	7	13	4	5
105°	18	21	23	21	18	17
115°	19	18	24	22	19	19
125°	7	16	6	20	7	7
135°	3	13	2	18	3	2
145°	3	10	2	13	3	2
155°	3	9	3	10	3	1
165°	3	4	3	5	3	1
175°	2	3	3	4	2	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5
5°	1049.3	1044.1	1046.8	1046.8	1044.1	1041.5	1045.8	1046.6	1047.6	1044.8	1048.1
10°	1033.2	1028.4	1030.9	1029.6	1026.4	1023.0	1027.9	1029.9	1030.6	1028.8	1033.1
15°	1005.5	1002.0	1002.5	1001.5	994.9	993.2	999.7	1002.5	1002.1	1002.8	1007.3
20°	968.3	964.8	966.8	963.0	952.9	955.7	960.2	962.8	963.3	966.3	972.2
25°	921.5	918.5	919.8	916.0	904.3	907.4	912.1	916.7	915.4	920.5	926.6
30°	864.3	864.1	865.0	862.3	849.3	851.2	857.7	861.3	860.3	867.4	873.1
35°	800.7	804.8	804.1	799.5	786.9	789.3	796.0	798.7	798.2	806.8	812.7
40°	738.2	738.5	740.2	732.1	717.9	724.3	729.9	730.7	731.2	740.5	747.6
45°	671.2	668.3	669.4	663.5	649.3	654.4	659.7	662.3	660.2	670.7	681.0
50°	604.6	596.4	595.5	591.6	577.4	582.3	590.1	590.7	587.9	600.7	609.3
55°	526.9	526.3	522.8	520.0	505.0	510.4	516.5	517.2	517.5	525.6	535.9
60°	450.9	450.6	451.4	444.5	428.3	435.7	441.7	442.0	440.0	453.4	461.0
65°	376.7	373.1	375.9	369.8	352.6	359.3	367.8	366.9	363.3	375.4	387.1
70°	298.0	297.5	298.3	290.9	275.7	281.8	289.9	289.6	286.1	300.3	312.2
75°	219.3	224.0	222.3	214.9	199.5	207.6	213.1	212.1	210.4	222.8	232.4
80°	145.8	150.7	151.4	141.8	128.9	135.7	140.7	140.5	137.0	149.8	160.5
85°	87.3	89.3	89.3	82.0	71.7	77.2	82.8	80.2	76.5	88.8	94.9
90°	15.0	6.3	6.1	5.8	5.3	6.8	8.6	9.4	9.8	12.6	16.2
95°	3.8	4.5	4.5	7.6	2.0	6.4	5.1	6.9	7.4	7.1	6.0
100°	3.5	4.0	15.0	16.2	15.2	16.2	17.5	7.1	6.9	6.8	12.1
105°	17.5	19.8	20.7	16.5	20.7	17.7	21.2	22.0	23.0	21.7	22.6
110°	25.1	20.2	16.2	14.5	19.2	15.4	17.7	21.2	25.6	23.8	22.1
115°	19.3	15.9	10.2	12.9	17.7	14.5	12.6	19.0	23.5	22.3	16.5
120°	13.9	12.2	7.3	12.6	16.7	13.7	8.6	13.4	14.7	14.7	12.6
125°	6.6	7.9	7.4	12.2	15.9	12.4	8.1	6.6	5.8	7.3	12.4
130°	2.5	7.4	7.8	10.7	13.9	10.9	7.4	6.1	2.5	6.9	11.4
135°	2.8	7.1	6.8	9.8	12.6	8.4	6.8	5.6	2.5	6.4	10.1
140°	2.5	6.6	9.3	8.1	11.6	7.8	7.9	5.3	2.5	6.1	8.6
145°	2.6	6.0	9.8	8.8	9.9	9.6	8.1	5.0	2.5	5.6	7.8
150°	2.5	5.1	8.4	8.9	10.2	9.6	7.4	4.8	2.6	5.3	6.9
155°	2.6	4.8	6.9	7.9	8.9	7.1	5.6	4.1	2.6	4.8	6.3
160°	2.8	4.0	5.0	5.8	5.3	5.5	4.6	3.5	2.5	4.1	5.5
165°	2.6	3.1	3.6	3.1	4.3	3.3	3.3	2.8	2.6	3.5	4.6
170°	2.6	2.8	3.0	3.1	4.3	3.8	3.0	2.6	2.6	3.1	3.8
175°	2.5	2.6	3.0	3.3	3.3	3.1	3.0	3.1	3.1	3.1	3.3
180°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5
5°	1049.6	1050.1	1046.4	1050.2	1049.6	1049.3
10°	1035.4	1036.4	1033.7	1038.0	1035.4	1033.2
15°	1010.2	1012.1	1008.9	1013.7	1010.6	1005.5
20°	974.5	975.9	975.5	978.7	974.9	968.3
25°	929.6	930.1	931.7	934.0	930.1	921.5
30°	877.0	875.2	879.5	882.6	875.9	864.3
35°	816.5	814.0	818.2	823.1	816.9	800.7
40°	750.2	750.1	757.0	757.7	751.1	738.2
45°	680.5	683.6	687.4	689.6	680.5	671.2
50°	609.3	615.5	615.4	616.5	608.3	604.6
55°	538.0	541.2	543.1	543.0	538.0	526.9
60°	463.3	465.6	470.4	469.4	463.8	450.9
65°	387.6	389.3	392.2	394.0	386.1	376.7
70°	309.8	309.9	316.0	319.5	308.3	298.0
75°	234.5	234.4	240.2	242.6	234.0	219.3
80°	159.5	158.3	167.8	167.8	157.7	145.8
85°	93.2	94.4	101.7	103.6	96.2	87.3
90°	26.6	38.3	40.3	37.2	25.8	15.0
95°	8.4	13.4	8.6	5.3	4.6	3.8
100°	9.4	5.3	11.7	5.8	3.6	3.5
105°	18.3	21.0	19.0	18.5	18.3	17.5
110°	20.0	22.1	17.4	19.7	21.5	25.1
115°	19.3	22.0	17.9	17.9	18.3	19.3
120°	18.5	20.0	17.0	12.9	15.4	13.9
125°	17.9	19.5	16.2	12.7	7.9	6.6
130°	17.0	18.8	15.4	11.9	6.1	2.5
135°	14.5	18.2	12.9	9.9	6.1	2.8
140°	11.6	14.4	11.7	8.8	5.6	2.5
145°	10.4	12.9	9.9	8.9	5.3	2.6
150°	9.4	11.1	8.8	7.9	4.8	2.5
155°	7.3	10.1	7.4	6.4	4.5	2.6
160°	5.6	5.6	5.8	5.5	4.0	2.8
165°	4.8	5.0	4.8	4.5	3.5	2.6
170°	4.5	5.0	4.3	3.6	3.0	2.6
175°	3.3	4.3	3.3	2.8	2.8	2.5
180°	3.0	3.0	3.0	3.0	3.0	3.0



Report Generated By 670246072 / DESKTOP-50001EG







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









(END OF REPORT)