

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: P855738

Luminaire Tested: **24SFS-L3C4-NUV-HIGH-5000K**

Issue Date: 7/17/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P855738  
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-NUV-HIGH-5000K  
Description: 2x4 Surround Frame Selectable - Architectural Slim LED Frame with,  
HIGH Lumen and 5000K CCT Settings  
Light Source: -  
Ballast/Driver: -

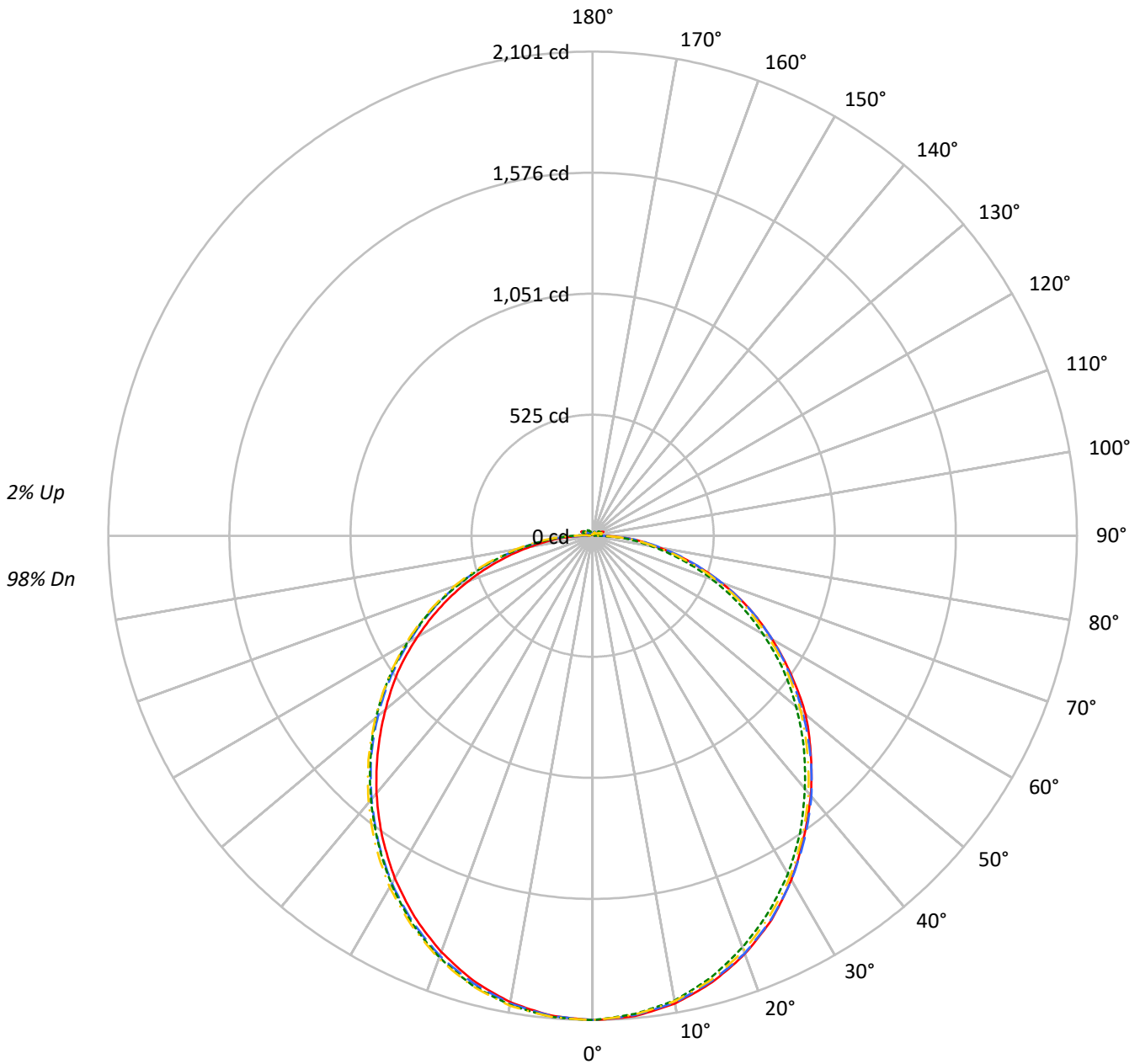
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6131.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 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): 47  
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	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°	3044	3044	3044	3044
5°	3044	3029	3039	3046
10°	3032	3012	3024	3041
15°	3008	2976	2998	3028
20°	2978	2930	2962	3001
25°	2938	2883	2919	2965
30°	2884	2834	2871	2920
35°	2824	2776	2816	2872
40°	2785	2708	2758	2829
45°	2743	2653	2698	2794
50°	2718	2596	2643	2767
55°	2655	2544	2607	2726
60°	2606	2475	2543	2691
65°	2576	2411	2484	2662
70°	2518	2329	2417	2618
75°	2449	2227	2349	2617
80°	2426	2145	2280	2635
85°	2894	2379	2537	3129



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.4	3.2
10°-20°	564.9	9.2
20°-30°	846.1	13.8
30°-40°	1005.3	16.4
40°-50°	1032.8	16.8
50°-60°	939.6	15.3
60°-70°	742.4	12.1
70°-80°	470.7	7.7
80°-90°	186.1	3.0
90°-100°	21.4	0.3
100°-110°	36.7	0.6
110°-120°	34.3	0.6
120°-130°	20.6	0.3
130°-140°	13.7	0.2
140°-150°	9.6	0.2
150°-160°	5.6	0.1
160°-170°	2.2	0.0
170°-180°	0.6	0.0
0°-30°	1609.4	26.3
0°-40°	2614.7	42.6
0°-60°	4587.1	74.8
0°-90°	5986.3	97.6
90°-120°	92.4	1.5
90°-150°	136.2	2.2
90°-180°	145.0	2.4
0°-180°	6131.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2101	2101	2101	2101	2101	
5°	2093	2082	2089	2094	2093	199
15°	2005	1984	1999	2018	2005	566
25°	1838	1804	1826	1855	1838	846
35°	1597	1570	1592	1624	1597	1001
45°	1339	1295	1317	1364	1339	1035
55°	1051	1007	1032	1079	1051	942
65°	751	703	725	776	751	742
75°	438	398	420	468	438	465
85°	174	143	153	188	174	164
90°	30	10	20	76	30	33
95°	8	4	15	27	8	10
105°	35	41	46	42	35	33
115°	39	35	47	44	39	39
125°	13	32	12	39	13	13
135°	6	25	5	36	6	4
145°	5	20	5	26	5	3
155°	5	18	5	20	5	2
165°	5	9	5	10	5	2
175°	5	7	6	9	5	0
180°	6	6	6	6	6	



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CATALOG NUMBER: 24SFS-L3C4-NUV-HIGH-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2101.2	2101.2	2101.2	2101.2	2101.2	2101.2	2101.2	2101.2	2101.2	2101.2	2101.2
5°	2092.7	2082.5	2087.8	2087.8	2082.5	2077.2	2085.8	2087.4	2089.4	2083.8	2090.4
10°	2060.7	2051.2	2056.1	2053.5	2047.2	2040.3	2050.2	2054.1	2055.5	2051.8	2060.4
15°	2005.3	1998.4	1999.4	1997.4	1984.3	1981.0	1993.8	1999.4	1998.8	2000.1	2009.0
20°	1931.2	1924.3	1928.2	1920.6	1900.5	1906.1	1915.0	1920.3	1921.3	1927.2	1939.1
25°	1837.9	1831.9	1834.6	1827.0	1803.6	1809.9	1819.1	1828.3	1825.7	1835.9	1848.1
30°	1723.8	1723.5	1725.1	1719.9	1693.8	1697.8	1710.6	1717.9	1715.9	1730.1	1741.3
35°	1596.9	1605.1	1603.8	1594.6	1569.5	1574.1	1587.7	1592.9	1591.9	1609.1	1621.0
40°	1472.3	1472.9	1476.2	1460.1	1431.7	1444.6	1455.8	1457.4	1458.4	1476.9	1491.1
45°	1338.8	1332.8	1335.1	1323.3	1294.9	1305.1	1315.7	1321.0	1316.7	1337.8	1358.2
50°	1205.9	1189.4	1187.8	1179.9	1151.5	1161.4	1176.9	1178.2	1172.6	1198.0	1215.1
55°	1051.0	1049.7	1042.7	1037.1	1007.1	1018.0	1030.2	1031.5	1032.2	1048.3	1068.8
60°	899.3	898.7	900.3	886.5	854.2	869.0	880.9	881.5	877.6	904.3	919.4
65°	751.3	744.1	749.7	737.5	703.2	716.7	733.5	731.9	724.6	748.7	772.1
70°	594.4	593.4	595.0	580.2	549.9	562.1	578.2	577.6	570.6	599.0	622.7
75°	437.5	446.7	443.4	428.6	397.9	414.1	424.9	423.0	419.7	444.4	463.5
80°	290.8	300.7	302.0	282.9	257.1	270.7	280.5	280.2	273.3	298.7	320.1
85°	174.1	178.0	178.0	163.5	143.1	154.0	165.2	159.9	152.6	177.0	189.2
90°	30.0	12.5	12.2	11.5	10.5	13.5	17.1	18.8	19.5	25.1	32.3
95°	7.6	8.9	8.9	15.2	4.0	12.9	10.2	13.8	14.8	14.2	11.9
100°	6.9	7.9	30.0	32.3	30.3	32.3	34.9	14.2	13.8	13.5	24.1
105°	34.9	39.6	41.2	33.0	41.2	35.3	42.2	43.8	45.8	43.2	45.2
110°	50.1	40.2	32.3	29.0	38.2	30.7	35.3	42.2	51.1	47.5	44.2
115°	38.6	31.6	20.4	25.7	35.3	29.0	25.1	37.9	46.8	44.5	33.0
120°	27.7	24.4	14.5	25.1	33.3	27.4	17.1	26.7	29.3	29.3	25.1
125°	13.2	15.8	14.8	24.4	31.6	24.7	16.2	13.2	11.5	14.5	24.7
130°	4.9	14.8	15.5	21.4	27.7	21.8	14.8	12.2	4.9	13.8	22.7
135°	5.6	14.2	13.5	19.5	25.1	16.8	13.5	11.2	4.9	12.9	20.1
140°	4.9	13.2	18.5	16.2	23.1	15.5	15.8	10.5	4.9	12.2	17.1
145°	5.3	11.9	19.5	17.5	19.8	19.1	16.2	9.9	4.9	11.2	15.5
150°	4.9	10.2	16.8	17.8	20.4	19.1	14.8	9.6	5.3	10.5	13.8
155°	5.3	9.6	13.8	15.8	17.8	14.2	11.2	8.2	5.3	9.6	12.5
160°	5.6	7.9	9.9	11.5	10.5	10.9	9.2	6.9	4.9	8.2	10.9
165°	5.3	6.3	7.3	6.3	8.6	6.6	6.6	5.6	5.3	6.9	9.2
170°	5.3	5.6	5.9	6.3	8.6	7.6	5.9	5.3	5.3	6.3	7.6
175°	4.9	5.3	5.9	6.6	6.6	6.3	5.9	6.3	6.3	6.3	6.6
180°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2101.2	2101.2	2101.2	2101.2	2101.2	2101.2
5°	2093.4	2094.4	2087.1	2094.7	2093.4	2092.7
10°	2065.0	2067.0	2061.7	2070.3	2065.0	2060.7
15°	2014.9	2018.5	2012.3	2021.8	2015.6	2005.3
20°	1943.7	1946.3	1945.7	1951.9	1944.4	1931.2
25°	1854.0	1855.0	1858.3	1862.9	1855.0	1837.9
30°	1749.2	1745.6	1754.1	1760.4	1746.9	1723.8
35°	1628.5	1623.6	1631.8	1641.7	1629.2	1596.9
40°	1496.3	1496.0	1509.9	1511.2	1498.0	1472.3
45°	1357.2	1363.5	1371.1	1375.4	1357.2	1338.8
50°	1215.1	1227.7	1227.3	1229.6	1213.2	1205.9
55°	1073.1	1079.3	1083.3	1082.9	1073.1	1051.0
60°	924.0	928.7	938.2	936.2	925.0	899.3
65°	773.1	776.4	782.3	785.9	770.1	751.3
70°	617.8	618.1	630.3	637.2	614.8	594.4
75°	467.8	467.5	479.0	483.9	466.8	437.5
80°	318.1	315.8	334.6	334.6	314.5	290.8
85°	185.9	188.2	202.7	206.7	191.9	174.1
90°	53.1	76.5	80.4	74.2	51.4	30.0
95°	16.8	26.7	17.1	10.5	9.2	7.6
100°	18.8	10.5	23.4	11.5	7.3	6.9
105°	36.6	41.9	37.9	36.9	36.6	34.9
110°	39.9	44.2	34.6	39.2	42.9	50.1
115°	38.6	43.8	35.6	35.6	36.6	38.6
120°	36.9	39.9	34.0	25.7	30.7	27.7
125°	35.6	38.9	32.3	25.4	15.8	13.2
130°	34.0	37.6	30.7	23.7	12.2	4.9
135°	29.0	36.3	25.7	19.8	12.2	5.6
140°	23.1	28.7	23.4	17.5	11.2	4.9
145°	20.8	25.7	19.8	17.8	10.5	5.3
150°	18.8	22.1	17.5	15.8	9.6	4.9
155°	14.5	20.1	14.8	12.9	8.9	5.3
160°	11.2	11.2	11.5	10.9	7.9	5.6
165°	9.6	9.9	9.6	8.9	6.9	5.3
170°	8.9	9.9	8.6	7.3	5.9	5.3
175°	6.6	8.6	6.6	5.6	5.6	4.9
180°	5.9	5.9	5.9	5.9	5.9	5.9



Report Generated By 670246072 / DESKTOP-50001EG







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









(END OF REPORT)