

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: P855749

Luminaire Tested: **24SFS-L3C4-UNV-HIGH-4000K**

Issue Date: 7/17/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P855749  
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-HIGH-4000K  
Description: 2x4 Surround Frame Selectable - Architectural Slim LED Frame with,  
HIGH Lumen and 4000K CCT Settings  
Light Source: -  
Ballast/Driver: -

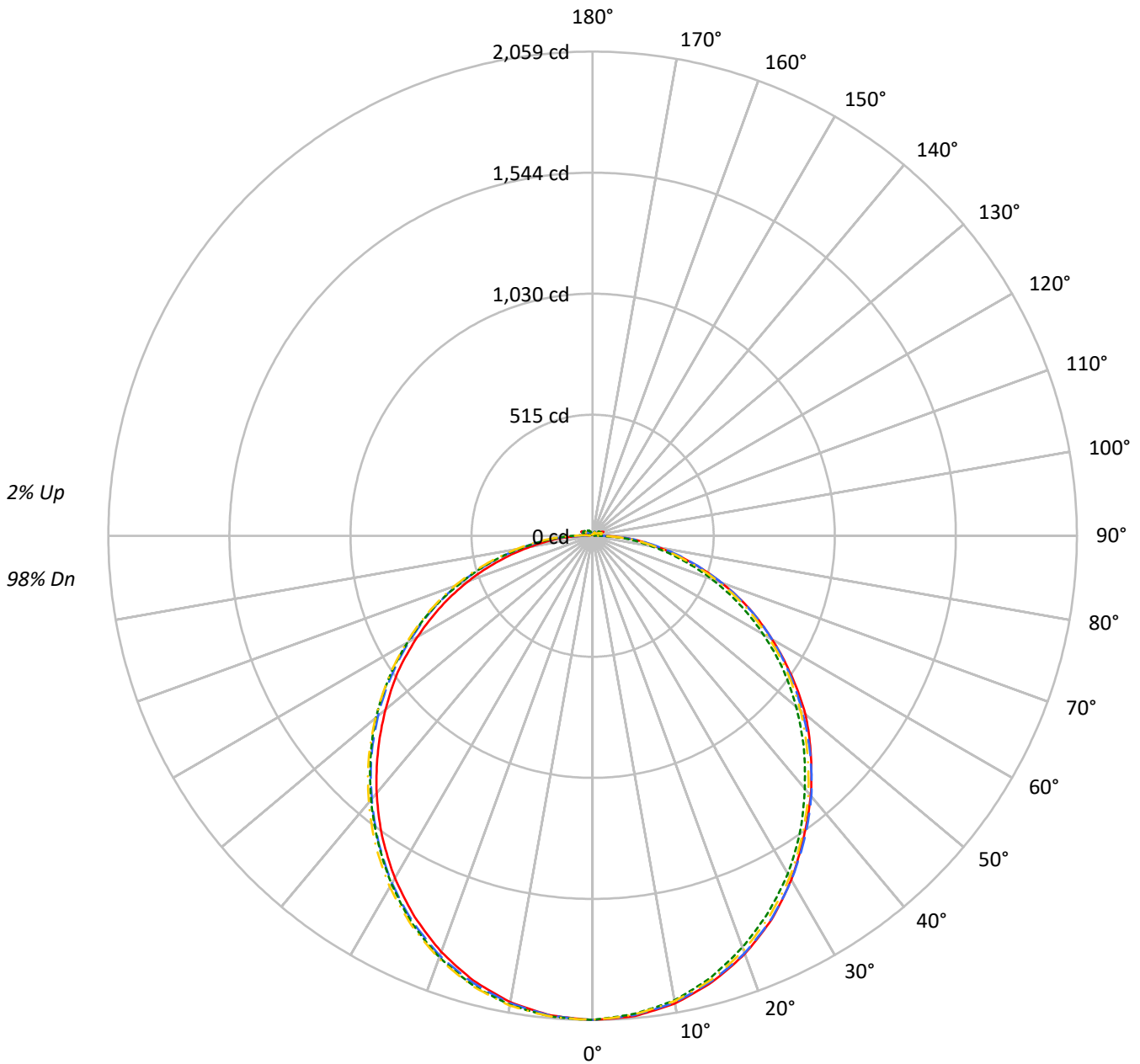
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6007.0 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): 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

TEST NUMBER: P855749

CATALOG NUMBER: 24SFS-L3C4-UNV-HIGH-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P855749

CATALOG NUMBER: 24SFS-L3C4-UNV-HIGH-4000K

**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°	2983	2983	2983	2983
5°	2982	2968	2977	2984
10°	2971	2951	2963	2979
15°	2947	2916	2937	2966
20°	2917	2871	2902	2940
25°	2879	2825	2860	2906
30°	2826	2777	2813	2861
35°	2767	2720	2759	2814
40°	2728	2653	2703	2772
45°	2688	2600	2643	2737
50°	2663	2543	2590	2711
55°	2601	2493	2555	2671
60°	2553	2425	2491	2637
65°	2524	2362	2434	2608
70°	2467	2282	2368	2565
75°	2399	2183	2302	2564
80°	2377	2102	2234	2582
85°	2834	2331	2485	3065



TEST NUMBER: P855749

CATALOG NUMBER: 24SFS-L3C4-UNV-HIGH-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.4	3.2
10°-20°	553.5	9.2
20°-30°	829.0	13.8
30°-40°	984.9	16.4
40°-50°	1011.9	16.8
50°-60°	920.6	15.3
60°-70°	727.4	12.1
70°-80°	461.2	7.7
80°-90°	182.3	3.0
90°-100°	21.0	0.3
100°-110°	36.0	0.6
110°-120°	33.6	0.6
120°-130°	20.2	0.3
130°-140°	13.4	0.2
140°-150°	9.4	0.2
150°-160°	5.5	0.1
160°-170°	2.2	0.0
170°-180°	0.6	0.0
0°-30°	1576.9	26.3
0°-40°	2561.8	42.6
0°-60°	4494.3	74.8
0°-90°	5865.2	97.6
90°-120°	90.5	1.5
90°-150°	133.5	2.2
90°-180°	142.0	2.4
0°-180°	6007.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2059	2059	2059	2059	2059	
5°	2050	2040	2047	2052	2050	195
15°	1965	1944	1958	1978	1965	554
25°	1801	1767	1789	1818	1801	829
35°	1565	1538	1560	1591	1565	981
45°	1312	1269	1290	1336	1312	1014
55°	1030	987	1011	1058	1030	922
65°	736	689	710	761	736	727
75°	429	390	411	458	429	455
85°	170	140	150	184	170	161
90°	29	10	19	75	29	32
95°	7	4	14	26	7	10
105°	34	40	45	41	34	33
115°	38	35	46	43	38	38
125°	13	31	11	38	13	13
135°	6	24	5	36	6	4
145°	5	19	5	25	5	3
155°	5	17	5	20	5	2
165°	5	8	5	10	5	1
175°	5	6	6	8	5	0
180°	6	6	6	6	6	



TEST NUMBER: P855749

CATALOG NUMBER: 24SFS-L3C4-UNV-HIGH-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2058.7	2058.7	2058.7	2058.7	2058.7	2058.7	2058.7	2058.7	2058.7	2058.7	2058.7
5°	2050.4	2040.4	2045.5	2045.5	2040.4	2035.2	2043.6	2045.2	2047.2	2041.7	2048.1
10°	2019.1	2009.7	2014.5	2011.9	2005.8	1999.0	2008.7	2012.6	2013.9	2010.3	2018.7
15°	1964.8	1958.0	1959.0	1957.0	1944.1	1940.9	1953.5	1959.0	1958.3	1959.6	1968.3
20°	1892.1	1885.3	1889.2	1881.8	1862.1	1867.6	1876.3	1881.5	1882.4	1888.2	1899.9
25°	1800.7	1794.9	1797.5	1790.0	1767.1	1773.3	1782.3	1791.3	1788.8	1798.8	1810.7
30°	1689.0	1688.6	1690.2	1685.1	1659.6	1663.4	1676.0	1683.1	1681.2	1695.1	1706.1
35°	1564.6	1572.7	1571.4	1562.3	1537.8	1542.3	1555.6	1560.7	1559.8	1576.5	1588.2
40°	1442.5	1443.2	1446.4	1430.6	1402.8	1415.4	1426.4	1428.0	1428.9	1447.0	1460.9
45°	1311.7	1305.9	1308.1	1296.5	1268.7	1278.7	1289.1	1294.2	1290.0	1310.7	1330.7
50°	1181.5	1165.4	1163.8	1156.0	1128.2	1137.9	1153.1	1154.4	1148.9	1173.8	1190.6
55°	1029.7	1028.4	1021.6	1016.1	986.8	997.4	1009.4	1010.7	1011.3	1027.1	1047.2
60°	881.1	880.5	882.1	868.5	836.9	851.4	863.0	863.7	859.8	886.0	900.8
65°	736.1	729.0	734.5	722.5	689.0	702.2	718.7	717.1	709.9	733.5	756.5
70°	582.4	581.4	583.0	568.5	538.8	550.7	566.5	565.9	559.1	586.9	610.1
75°	428.6	437.7	434.4	419.9	389.9	405.7	416.3	414.4	411.2	435.4	454.1
80°	284.9	294.6	295.9	277.1	251.9	265.2	274.9	274.5	267.8	292.6	313.6
85°	170.5	174.4	174.4	160.2	140.2	150.8	161.8	156.7	149.5	173.4	185.4
90°	29.4	12.3	12.0	11.3	10.3	13.2	16.8	18.4	19.1	24.5	31.7
95°	7.4	8.7	8.7	14.9	3.9	12.6	10.0	13.6	14.5	13.9	11.6
100°	6.8	7.8	29.4	31.7	29.7	31.7	34.2	13.9	13.6	13.2	23.6
105°	34.2	38.8	40.4	32.3	40.4	34.6	41.3	43.0	44.9	42.3	44.3
110°	49.1	39.4	31.7	28.4	37.5	30.0	34.6	41.3	50.1	46.5	43.3
115°	37.8	31.0	20.0	25.2	34.6	28.4	24.5	37.1	45.9	43.6	32.3
120°	27.1	23.9	14.2	24.5	32.6	26.8	16.8	26.2	28.7	28.7	24.5
125°	12.9	15.5	14.5	23.9	31.0	24.2	15.8	12.9	11.3	14.2	24.2
130°	4.8	14.5	15.2	21.0	27.1	21.3	14.5	12.0	4.8	13.6	22.3
135°	5.5	13.9	13.2	19.1	24.5	16.5	13.2	11.0	4.8	12.6	19.7
140°	4.8	12.9	18.1	15.8	22.6	15.2	15.5	10.3	4.8	12.0	16.8
145°	5.2	11.6	19.1	17.1	19.4	18.7	15.8	9.7	4.8	11.0	15.2
150°	4.8	10.0	16.5	17.4	20.0	18.7	14.5	9.4	5.2	10.3	13.6
155°	5.2	9.4	13.6	15.5	17.4	13.9	11.0	8.1	5.2	9.4	12.3
160°	5.5	7.8	9.7	11.3	10.3	10.7	9.0	6.8	4.8	8.1	10.7
165°	5.2	6.1	7.1	6.1	8.4	6.5	6.5	5.5	5.2	6.8	9.0
170°	5.2	5.5	5.8	6.1	8.4	7.4	5.8	5.2	5.2	6.1	7.4
175°	4.8	5.2	5.8	6.5	6.5	6.1	5.8	6.1	6.1	6.1	6.5
180°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8



TEST NUMBER: P855749

CATALOG NUMBER: 24SFS-L3C4-UNV-HIGH-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2058.7	2058.7	2058.7	2058.7	2058.7	2058.7
5°	2051.0	2052.0	2044.9	2052.3	2051.0	2050.4
10°	2023.3	2025.2	2020.0	2028.4	2023.3	2019.1
15°	1974.2	1977.7	1971.6	1980.9	1974.8	1964.8
20°	1904.4	1907.0	1906.3	1912.5	1905.0	1892.1
25°	1816.5	1817.5	1820.7	1825.3	1817.5	1800.7
30°	1713.8	1710.3	1718.7	1724.8	1711.6	1689.0
35°	1595.6	1590.8	1598.8	1608.5	1596.3	1564.6
40°	1466.1	1465.8	1479.3	1480.6	1467.7	1442.5
45°	1329.8	1335.9	1343.3	1347.5	1329.8	1311.7
50°	1190.6	1202.8	1202.5	1204.8	1188.6	1181.5
55°	1051.4	1057.5	1061.4	1061.0	1051.4	1029.7
60°	905.4	909.9	919.2	917.3	906.3	881.1
65°	757.4	760.7	766.5	770.0	754.5	736.1
70°	605.3	605.6	617.6	624.4	602.4	582.4
75°	458.3	458.0	469.3	474.2	457.4	428.6
80°	311.7	309.4	327.8	327.8	308.1	284.9
85°	182.2	184.4	198.6	202.5	188.0	170.5
90°	52.0	74.9	78.8	72.7	50.4	29.4
95°	16.5	26.2	16.8	10.3	9.0	7.4
100°	18.4	10.3	22.9	11.3	7.1	6.8
105°	35.9	41.0	37.1	36.2	35.9	34.2
110°	39.1	43.3	33.9	38.4	42.0	49.1
115°	37.8	43.0	34.9	34.9	35.9	37.8
120°	36.2	39.1	33.3	25.2	30.0	27.1
125°	34.9	38.1	31.7	24.9	15.5	12.9
130°	33.3	36.8	30.0	23.3	12.0	4.8
135°	28.4	35.5	25.2	19.4	12.0	5.5
140°	22.6	28.1	22.9	17.1	11.0	4.8
145°	20.3	25.2	19.4	17.4	10.3	5.2
150°	18.4	21.6	17.1	15.5	9.4	4.8
155°	14.2	19.7	14.5	12.6	8.7	5.2
160°	11.0	11.0	11.3	10.7	7.8	5.5
165°	9.4	9.7	9.4	8.7	6.8	5.2
170°	8.7	9.7	8.4	7.1	5.8	5.2
175°	6.5	8.4	6.5	5.5	5.5	4.8
180°	5.8	5.8	5.8	5.8	5.8	5.8



Report Generated By 670246072 / DESKTOP-50001EG







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









(END OF REPORT)