

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: P855748

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

Issue Date: 7/17/2024



Test Information

Test Method: LM-79-08
Report Number: P855748
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-3500K
Description: 2x4 Surround Frame Selectable - Architectural Slim LED Frame with,
HIGH Lumen and 3500K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

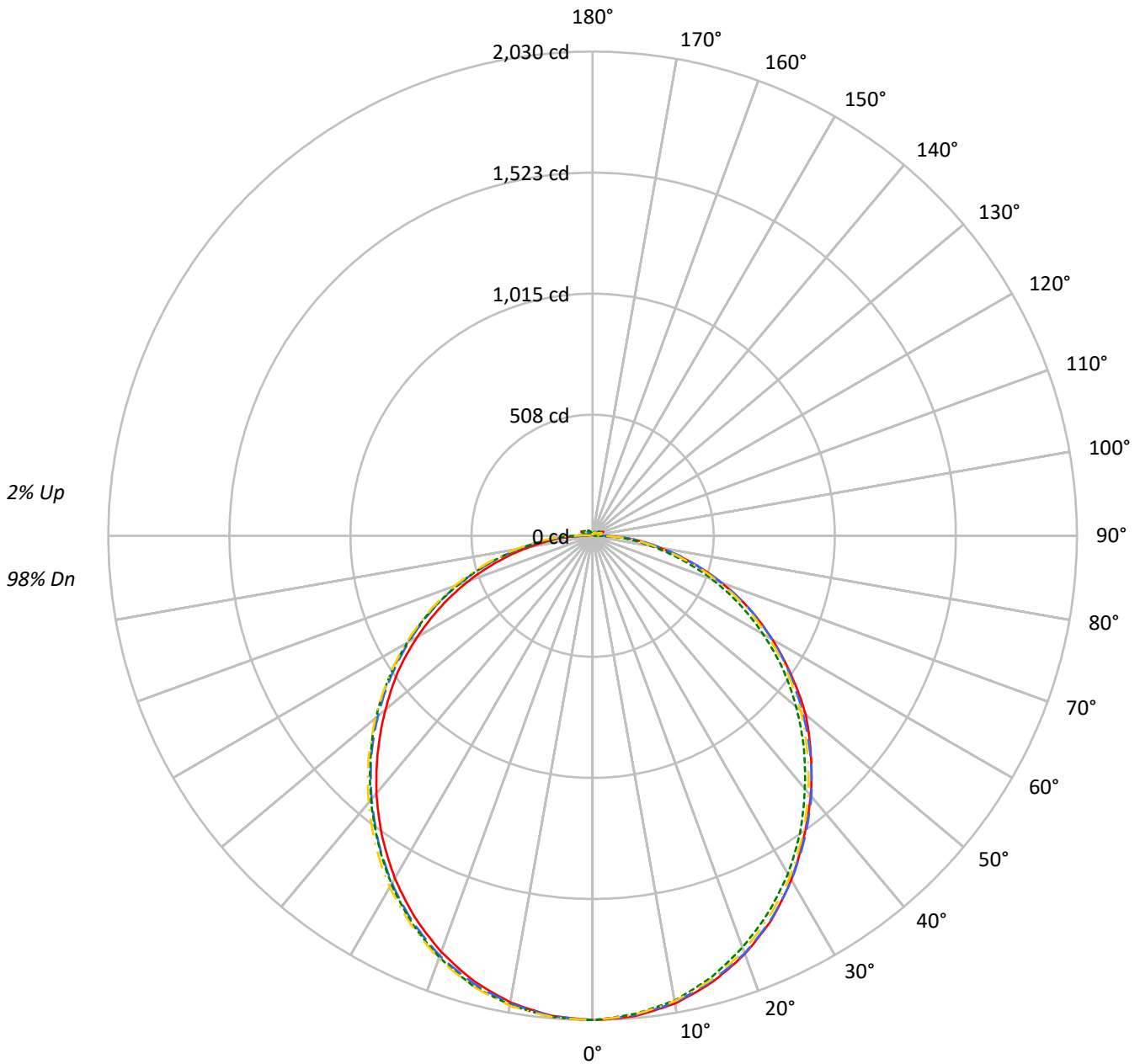
Lumens per Lamp: N/A
Luminaire Lumens: 5924.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.35
Luminous Opening: Rectangular (W 1.9' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): 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: P855748

CATALOG NUMBER: 24SFS-L3C4-UNV-HIGH-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P855748

CATALOG NUMBER: 24SFS-L3C4-UNV-HIGH-3500K

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°	2941	2941	2941	2941
5°	2941	2927	2936	2943
10°	2929	2910	2922	2938
15°	2906	2876	2897	2926
20°	2877	2831	2862	2900
25°	2839	2786	2820	2865
30°	2787	2738	2774	2822
35°	2729	2682	2721	2775
40°	2691	2616	2665	2734
45°	2651	2564	2607	2700
50°	2626	2508	2554	2674
55°	2565	2458	2519	2634
60°	2518	2391	2457	2600
65°	2489	2329	2400	2572
70°	2433	2251	2336	2530
75°	2366	2152	2270	2529
80°	2344	2073	2204	2546
85°	2796	2297	2452	3024



TEST NUMBER: P855748

CATALOG NUMBER: 24SFS-L3C4-UNV-HIGH-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	3.2
10°-20°	545.8	9.2
20°-30°	817.6	13.8
30°-40°	971.3	16.4
40°-50°	997.9	16.8
50°-60°	907.9	15.3
60°-70°	717.3	12.1
70°-80°	454.8	7.7
80°-90°	179.8	3.0
90°-100°	20.7	0.3
100°-110°	35.5	0.6
110°-120°	33.1	0.6
120°-130°	19.9	0.3
130°-140°	13.2	0.2
140°-150°	9.3	0.2
150°-160°	5.4	0.1
160°-170°	2.2	0.0
170°-180°	0.6	0.0
0°-30°	1555.1	26.3
0°-40°	2526.4	42.6
0°-60°	4432.2	74.8
0°-90°	5784.2	97.6
90°-120°	89.3	1.5
90°-150°	131.6	2.2
90°-180°	140.0	2.4
0°-180°	5924.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2030	2030	2030	2030	2030	
5°	2022	2012	2019	2024	2022	192
15°	1938	1917	1931	1950	1938	547
25°	1776	1743	1764	1792	1776	817
35°	1543	1516	1538	1569	1543	967
45°	1294	1251	1272	1318	1294	1000
55°	1016	973	997	1043	1016	910
65°	726	679	700	750	726	717
75°	423	384	406	452	423	449
85°	168	138	148	182	168	159
90°	29	10	19	74	29	32
95°	7	4	14	26	7	10
105°	34	40	44	40	34	32
115°	37	34	45	42	37	37
125°	13	31	11	38	13	13
135°	5	24	5	35	5	4
145°	5	19	5	25	5	3
155°	5	17	5	19	5	2
165°	5	8	5	10	5	1
175°	5	6	6	8	5	0
180°	6	6	6	6	6	



TEST NUMBER: P855748

CATALOG NUMBER: 24SFS-L3C4-UNV-HIGH-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2
5°	2022.1	2012.2	2017.3	2017.3	2012.2	2007.1	2015.4	2017.0	2018.9	2013.5	2019.8
10°	1991.2	1981.9	1986.7	1984.1	1978.1	1971.4	1981.0	1984.8	1986.1	1982.6	1990.8
15°	1937.6	1931.0	1931.9	1930.0	1917.3	1914.1	1926.5	1931.9	1931.3	1932.5	1941.1
20°	1866.0	1859.3	1863.1	1855.8	1836.3	1841.8	1850.4	1855.5	1856.4	1862.1	1873.6
25°	1775.8	1770.1	1772.6	1765.3	1742.7	1748.8	1757.7	1766.6	1764.0	1773.9	1785.7
30°	1665.6	1665.3	1666.9	1661.8	1636.6	1640.4	1652.9	1659.9	1658.0	1671.7	1682.5
35°	1543.0	1550.9	1549.7	1540.7	1516.5	1521.0	1534.1	1539.2	1538.2	1554.8	1566.2
40°	1422.6	1423.2	1426.4	1410.8	1383.4	1395.8	1406.6	1408.2	1409.2	1427.0	1440.7
45°	1293.6	1287.8	1290.1	1278.6	1251.2	1261.1	1271.3	1276.4	1272.2	1292.6	1312.4
50°	1165.2	1149.3	1147.7	1140.0	1112.6	1122.2	1137.2	1138.4	1133.0	1157.6	1174.1
55°	1015.5	1014.2	1007.5	1002.1	973.1	983.6	995.4	996.7	997.3	1012.9	1032.7
60°	869.0	868.3	869.9	856.5	825.3	839.7	851.1	851.8	847.9	873.7	888.4
65°	725.9	718.9	724.3	712.6	679.4	692.5	708.7	707.1	700.1	723.4	746.0
70°	574.3	573.4	575.0	560.6	531.3	543.1	558.7	558.1	551.4	578.8	601.7
75°	422.7	431.6	428.4	414.1	384.5	400.1	410.6	408.7	405.5	429.4	447.9
80°	280.9	290.5	291.8	273.3	248.5	261.5	271.1	270.8	264.1	288.6	309.3
85°	168.2	172.0	172.0	158.0	138.2	148.8	159.6	154.5	147.5	171.1	182.8
90°	29.0	12.1	11.8	11.1	10.2	13.1	16.6	18.2	18.8	24.2	31.2
95°	7.3	8.6	8.6	14.7	3.8	12.4	9.9	13.4	14.3	13.7	11.5
100°	6.7	7.6	29.0	31.2	29.3	31.2	33.8	13.7	13.4	13.1	23.3
105°	33.8	38.2	39.8	31.9	39.8	34.1	40.8	42.4	44.3	41.7	43.6
110°	48.4	38.9	31.2	28.0	37.0	29.6	34.1	40.8	49.4	45.9	42.7
115°	37.3	30.6	19.7	24.8	34.1	28.0	24.2	36.6	45.2	43.0	31.9
120°	26.8	23.6	14.0	24.2	32.2	26.4	16.6	25.8	28.3	28.3	24.2
125°	12.7	15.3	14.3	23.6	30.6	23.9	15.6	12.7	11.1	14.0	23.9
130°	4.8	14.3	15.0	20.7	26.8	21.0	14.3	11.8	4.8	13.4	22.0
135°	5.4	13.7	13.1	18.8	24.2	16.2	13.1	10.8	4.8	12.4	19.4
140°	4.8	12.7	17.8	15.6	22.3	15.0	15.3	10.2	4.8	11.8	16.6
145°	5.1	11.5	18.8	16.9	19.1	18.5	15.6	9.6	4.8	10.8	15.0
150°	4.8	9.9	16.2	17.2	19.7	18.5	14.3	9.2	5.1	10.2	13.4
155°	5.1	9.2	13.4	15.3	17.2	13.7	10.8	8.0	5.1	9.2	12.1
160°	5.4	7.6	9.6	11.1	10.2	10.5	8.9	6.7	4.8	8.0	10.5
165°	5.1	6.1	7.0	6.1	8.3	6.4	6.4	5.4	5.1	6.7	8.9
170°	5.1	5.4	5.7	6.1	8.3	7.3	5.7	5.1	5.1	6.1	7.3
175°	4.8	5.1	5.7	6.4	6.4	6.1	5.7	6.1	6.1	6.1	6.4
180°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7



TEST NUMBER: P855748

CATALOG NUMBER: 24SFS-L3C4-UNV-HIGH-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2
5°	2022.7	2023.6	2016.6	2024.0	2022.7	2022.1
10°	1995.3	1997.2	1992.1	2000.4	1995.3	1991.2
15°	1946.9	1950.4	1944.3	1953.6	1947.5	1937.6
20°	1878.1	1880.6	1880.0	1886.0	1878.7	1866.0
25°	1791.4	1792.4	1795.6	1800.0	1792.4	1775.8
30°	1690.1	1686.6	1694.9	1701.0	1687.9	1665.6
35°	1573.6	1568.8	1576.7	1586.3	1574.2	1543.0
40°	1445.8	1445.5	1458.9	1460.2	1447.4	1422.6
45°	1311.4	1317.5	1324.8	1328.9	1311.4	1293.6
50°	1174.1	1186.2	1185.9	1188.1	1172.2	1165.2
55°	1036.8	1042.9	1046.7	1046.4	1036.8	1015.5
60°	892.9	897.3	906.5	904.6	893.8	869.0
65°	747.0	750.1	755.9	759.4	744.1	725.9
70°	596.9	597.3	609.0	615.7	594.1	574.3
75°	452.0	451.7	462.8	467.6	451.0	422.7
80°	307.4	305.2	323.3	323.3	303.9	280.9
85°	179.7	181.9	195.9	199.7	185.4	168.2
90°	51.3	73.9	77.7	71.7	49.7	29.0
95°	16.2	25.8	16.6	10.2	8.9	7.3
100°	18.2	10.2	22.6	11.1	7.0	6.7
105°	35.4	40.5	36.6	35.7	35.4	33.8
110°	38.5	42.7	33.4	37.9	41.4	48.4
115°	37.3	42.4	34.4	34.4	35.4	37.3
120°	35.7	38.5	32.8	24.8	29.6	26.8
125°	34.4	37.6	31.2	24.5	15.3	12.7
130°	32.8	36.3	29.6	22.9	11.8	4.8
135°	28.0	35.0	24.8	19.1	11.8	5.4
140°	22.3	27.7	22.6	16.9	10.8	4.8
145°	20.1	24.8	19.1	17.2	10.2	5.1
150°	18.2	21.3	16.9	15.3	9.2	4.8
155°	14.0	19.4	14.3	12.4	8.6	5.1
160°	10.8	10.8	11.1	10.5	7.6	5.4
165°	9.2	9.6	9.2	8.6	6.7	5.1
170°	8.6	9.6	8.3	7.0	5.7	5.1
175°	6.4	8.3	6.4	5.4	5.4	4.8
180°	5.7	5.7	5.7	5.7	5.7	5.7



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)