

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: P855747

Luminaire Tested: **24SFS-L3C4-UNV-HIGH-3000K**

Issue Date: 7/17/2024



Test Information

Test Method: LM-79-08
Report Number: P855747
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-3000K
Description: 2x4 Surround Frame Selectable - Architectural Slim LED Frame with,
HIGH Lumen and 3000K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

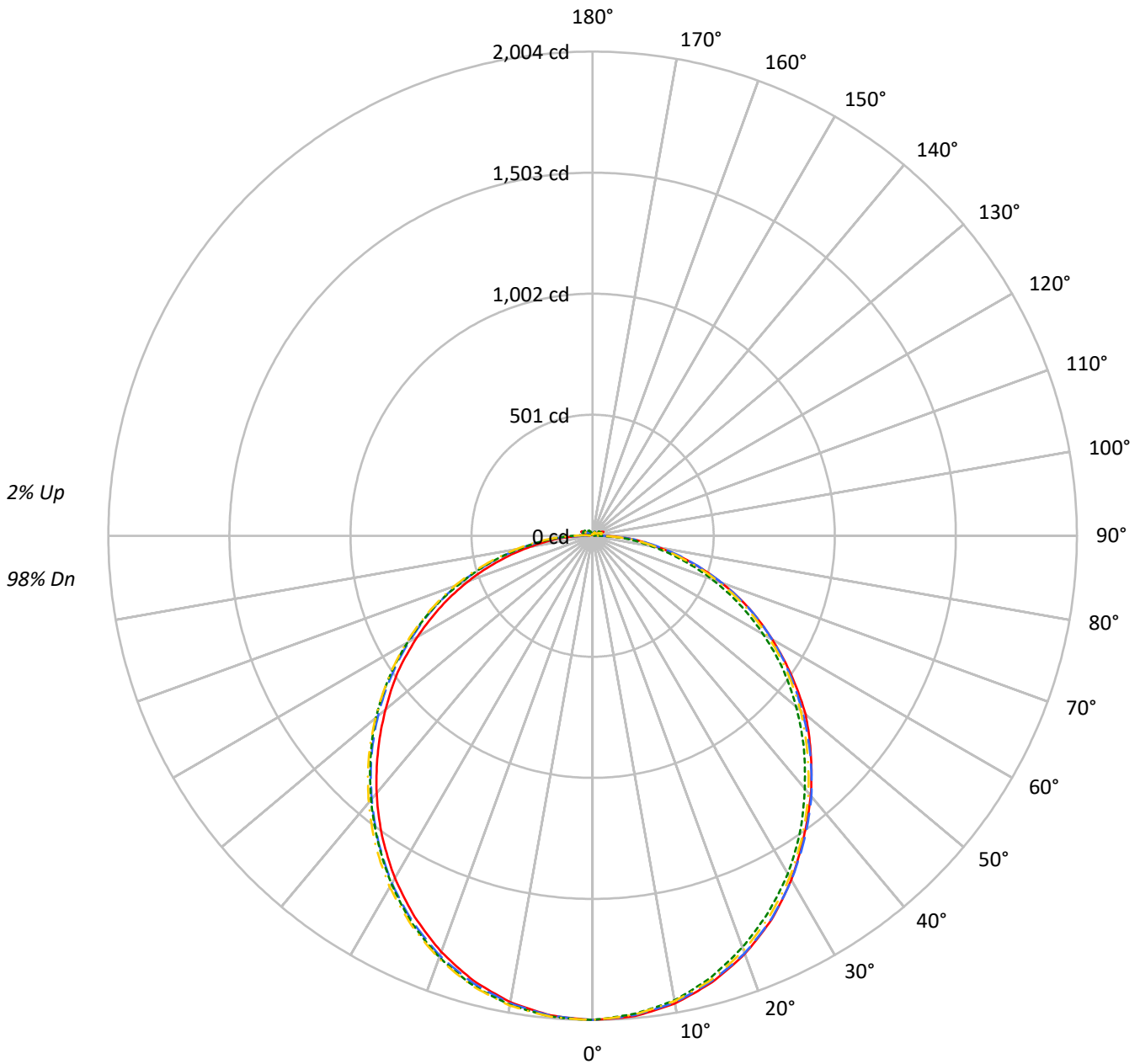
Lumens per Lamp: N/A
Luminaire Lumens: 5847.0 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.35
Luminous Opening: Rectangular (W 1.9' x L: 3.9' x H: 0')
CIE Type: Direct

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

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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	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°	2903	2903	2903	2903
5°	2903	2888	2898	2905
10°	2891	2872	2884	2900
15°	2869	2838	2859	2887
20°	2840	2795	2825	2862
25°	2802	2750	2783	2828
30°	2750	2703	2738	2785
35°	2694	2647	2685	2739
40°	2656	2582	2631	2698
45°	2616	2530	2573	2664
50°	2592	2475	2521	2639
55°	2532	2426	2487	2600
60°	2485	2360	2425	2566
65°	2456	2299	2369	2538
70°	2401	2221	2305	2497
75°	2335	2124	2240	2496
80°	2314	2046	2174	2513
85°	2760	2267	2420	2984



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	3.2
10°-20°	538.7	9.2
20°-30°	806.9	13.8
30°-40°	958.7	16.4
40°-50°	985.0	16.8
50°-60°	896.1	15.3
60°-70°	708.0	12.1
70°-80°	448.9	7.7
80°-90°	177.5	3.0
90°-100°	20.4	0.3
100°-110°	35.0	0.6
110°-120°	32.7	0.6
120°-130°	19.6	0.3
130°-140°	13.1	0.2
140°-150°	9.1	0.2
150°-160°	5.3	0.1
160°-170°	2.1	0.0
170°-180°	0.6	0.0
0°-30°	1534.9	26.3
0°-40°	2493.6	42.6
0°-60°	4374.6	74.8
0°-90°	5709.0	97.6
90°-120°	88.1	1.5
90°-150°	129.9	2.2
90°-180°	138.0	2.4
0°-180°	5847.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2004	2004	2004	2004	2004	
5°	1996	1986	1993	1997	1996	190
15°	1912	1892	1906	1925	1912	539
25°	1753	1720	1741	1769	1753	807
35°	1523	1497	1518	1548	1523	955
45°	1277	1235	1256	1300	1277	987
55°	1002	960	984	1029	1002	898
65°	716	671	691	740	716	708
75°	417	380	400	446	417	443
85°	166	136	146	180	166	156
90°	29	10	18	73	29	32
95°	7	4	14	26	7	10
105°	33	39	44	40	33	32
115°	37	34	45	42	37	37
125°	13	30	11	37	13	13
135°	5	24	5	35	5	4
145°	5	19	5	24	5	3
155°	5	17	5	19	5	2
165°	5	8	5	9	5	1
175°	5	6	6	8	5	0
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2003.9	2003.9	2003.9	2003.9	2003.9	2003.9	2003.9	2003.9	2003.9	2003.9	2003.9
5°	1995.8	1986.0	1991.1	1991.1	1986.0	1981.0	1989.2	1990.7	1992.6	1987.3	1993.6
10°	1965.3	1956.2	1960.9	1958.4	1952.4	1945.8	1955.2	1959.0	1960.2	1956.8	1965.0
15°	1912.5	1905.9	1906.8	1904.9	1892.3	1889.2	1901.5	1906.8	1906.2	1907.4	1915.9
20°	1841.7	1835.1	1838.9	1831.7	1812.5	1817.8	1826.3	1831.3	1832.3	1837.9	1849.3
25°	1752.7	1747.1	1749.6	1742.4	1720.0	1726.0	1734.8	1743.6	1741.1	1750.9	1762.5
30°	1644.0	1643.7	1645.2	1640.2	1615.4	1619.1	1631.4	1638.3	1636.4	1649.9	1660.6
35°	1522.9	1530.8	1529.5	1520.7	1496.8	1501.2	1514.1	1519.2	1518.2	1534.6	1545.9
40°	1404.1	1404.7	1407.9	1392.4	1365.4	1377.7	1388.4	1389.9	1390.9	1408.5	1422.0
45°	1276.8	1271.1	1273.3	1262.0	1234.9	1244.7	1254.7	1259.8	1255.7	1275.8	1295.3
50°	1150.1	1134.3	1132.8	1125.2	1098.2	1107.6	1122.4	1123.6	1118.3	1142.5	1158.9
55°	1002.3	1001.0	994.4	989.1	960.5	970.8	982.5	983.7	984.4	999.8	1019.3
60°	857.7	857.0	858.6	845.4	814.6	828.7	840.1	840.7	836.9	862.4	876.8
65°	716.5	709.6	714.9	703.3	670.6	683.5	699.5	698.0	691.0	714.0	736.3
70°	566.9	565.9	567.5	553.3	524.4	536.0	551.4	550.8	544.2	571.3	593.9
75°	417.2	426.0	422.9	408.7	379.5	394.9	405.3	403.4	400.2	423.8	442.0
80°	277.3	286.7	288.0	269.8	245.2	258.1	267.5	267.2	260.6	284.8	305.3
85°	166.0	169.8	169.8	155.9	136.4	146.8	157.5	152.5	145.6	168.8	180.5
90°	28.6	11.9	11.6	11.0	10.1	12.9	16.3	17.9	18.5	23.9	30.8
95°	7.2	8.5	8.5	14.5	3.8	12.3	9.7	13.2	14.1	13.5	11.3
100°	6.6	7.5	28.6	30.8	28.9	30.8	33.3	13.5	13.2	12.9	23.0
105°	33.3	37.7	39.3	31.4	39.3	33.6	40.2	41.8	43.7	41.2	43.1
110°	47.8	38.4	30.8	27.7	36.5	29.2	33.6	40.2	48.7	45.3	42.1
115°	36.8	30.2	19.5	24.5	33.6	27.7	23.9	36.2	44.6	42.4	31.4
120°	26.4	23.3	13.8	23.9	31.8	26.1	16.3	25.5	28.0	28.0	23.9
125°	12.6	15.1	14.1	23.3	30.2	23.6	15.4	12.6	11.0	13.8	23.6
130°	4.7	14.1	14.8	20.4	26.4	20.7	14.1	11.6	4.7	13.2	21.7
135°	5.3	13.5	12.9	18.5	23.9	16.0	12.9	10.7	4.7	12.3	19.2
140°	4.7	12.6	17.6	15.4	22.0	14.8	15.1	10.1	4.7	11.6	16.3
145°	5.0	11.3	18.5	16.7	18.9	18.2	15.4	9.4	4.7	10.7	14.8
150°	4.7	9.7	16.0	17.0	19.5	18.2	14.1	9.1	5.0	10.1	13.2
155°	5.0	9.1	13.2	15.1	17.0	13.5	10.7	7.9	5.0	9.1	11.9
160°	5.3	7.5	9.4	11.0	10.1	10.4	8.8	6.6	4.7	7.9	10.4
165°	5.0	6.0	6.9	6.0	8.2	6.3	6.3	5.3	5.0	6.6	8.8
170°	5.0	5.3	5.7	6.0	8.2	7.2	5.7	5.0	5.0	6.0	7.2
175°	4.7	5.0	5.7	6.3	6.3	6.0	5.7	6.0	6.0	6.0	6.3
180°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2003.9	2003.9	2003.9	2003.9	2003.9	2003.9
5°	1996.4	1997.3	1990.4	1997.7	1996.4	1995.8
10°	1969.4	1971.2	1966.2	1974.4	1969.4	1965.3
15°	1921.6	1925.0	1919.1	1928.2	1922.2	1912.5
20°	1853.7	1856.2	1855.6	1861.5	1854.3	1841.7
25°	1768.2	1769.1	1772.2	1776.6	1769.1	1752.7
30°	1668.2	1664.7	1672.9	1678.9	1666.0	1644.0
35°	1553.1	1548.4	1556.2	1565.7	1553.7	1522.9
40°	1427.0	1426.7	1439.9	1441.2	1428.6	1404.1
45°	1294.4	1300.3	1307.6	1311.7	1294.4	1276.8
50°	1158.9	1170.8	1170.5	1172.7	1157.0	1150.1
55°	1023.4	1029.3	1033.1	1032.8	1023.4	1002.3
60°	881.2	885.6	894.8	892.9	882.2	857.7
65°	737.3	740.4	746.1	749.5	734.4	716.5
70°	589.2	589.5	601.1	607.7	586.3	566.9
75°	446.1	445.8	456.8	461.5	445.2	417.2
80°	303.4	301.2	319.1	319.1	299.9	277.3
85°	177.3	179.5	193.4	197.1	183.0	166.0
90°	50.6	72.9	76.7	70.7	49.0	28.6
95°	16.0	25.5	16.3	10.1	8.8	7.2
100°	17.9	10.1	22.3	11.0	6.9	6.6
105°	34.9	39.9	36.2	35.2	34.9	33.3
110°	38.0	42.1	33.0	37.4	40.9	47.8
115°	36.8	41.8	34.0	34.0	34.9	36.8
120°	35.2	38.0	32.4	24.5	29.2	26.4
125°	34.0	37.1	30.8	24.2	15.1	12.6
130°	32.4	35.8	29.2	22.6	11.6	4.7
135°	27.7	34.6	24.5	18.9	11.6	5.3
140°	22.0	27.4	22.3	16.7	10.7	4.7
145°	19.8	24.5	18.9	17.0	10.1	5.0
150°	17.9	21.1	16.7	15.1	9.1	4.7
155°	13.8	19.2	14.1	12.3	8.5	5.0
160°	10.7	10.7	11.0	10.4	7.5	5.3
165°	9.1	9.4	9.1	8.5	6.6	5.0
170°	8.5	9.4	8.2	6.9	5.7	5.0
175°	6.3	8.2	6.3	5.3	5.3	4.7
180°	5.6	5.6	5.6	5.6	5.6	5.6



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)