

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: P855704

Luminaire Tested: **18SFS-L3C4-UNV-LOW-3500K**

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (BL231218005-9)
Test Lab: INNOVATION CENTER
Issue Date: 7/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 18SFS-L3C4-UNV-LOW-3500K
Description: 1x8 Surround Frame Selectable - Architectural Slim LED Frame with,
LOW Lumen and 3500K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

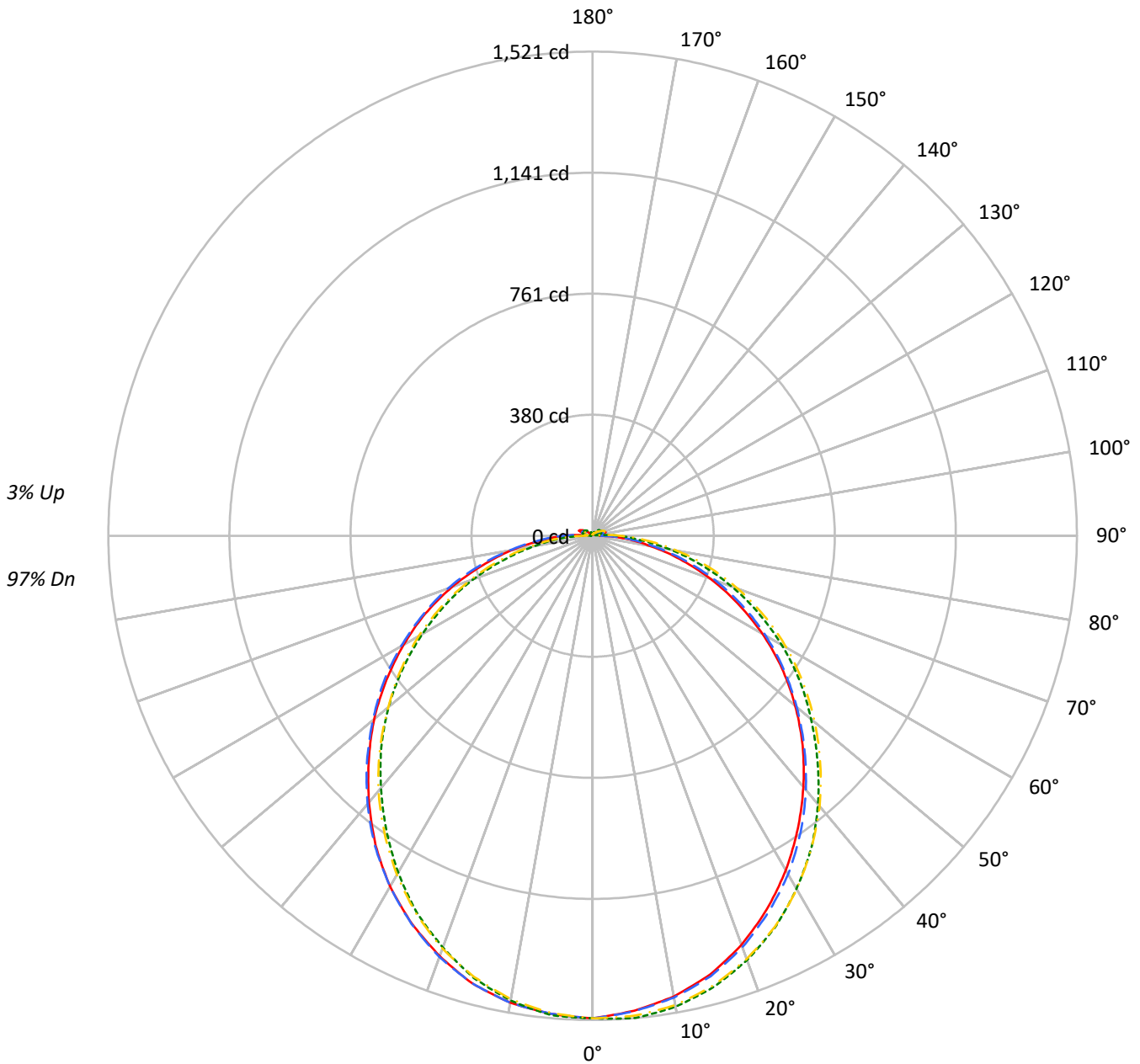
Lumens per Lamp: N/A
Luminaire Lumens: 4504.0 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.92' x L: 7.81' x H: 0')
CIE Type: Direct

Input Watts (W): 31
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					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	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	99	99	99	97		
1	107	102	98	93	104	100	95	92	95	91	88	90	88	85	86	84	82	86	84	82	86	84	82	80		
2	97	89	82	76	94	86	80	74	82	77	72	79	74	70	75	71	68	75	71	68	75	71	68	66		
3	89	78	69	63	86	76	68	62	72	66	60	69	64	59	66	61	57	66	61	57	66	61	57	55		
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50	59	54	49	59	54	49	59	54	49	47		
5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	47	43	53	47	43	53	47	43	40		
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	48	42	38	48	42	38	35		
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	44	38	33	44	38	33	31		
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	40	34	30	40	34	30	28		
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	37	31	27	37	31	27	25		
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	35	29	24	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2274	2274	2274	2274
5°	2256	2291	2270	2277
10°	2239	2289	2269	2259
15°	2216	2280	2263	2235
20°	2184	2265	2244	2197
25°	2144	2246	2225	2163
30°	2103	2219	2204	2116
35°	2058	2194	2176	2069
40°	2017	2157	2140	2025
45°	1979	2119	2109	1992
50°	1939	2090	2091	1952
55°	1899	2078	2068	1903
60°	1848	2059	2056	1852
65°	1782	2041	2060	1803
70°	1722	2038	2059	1743
75°	1642	2041	2068	1646
80°	1568	2128	2211	1580
85°	1761	2503	2682	1804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	3.2
10°-20°	407.6	9.0
20°-30°	611.4	13.6
30°-40°	728.0	16.2
40°-50°	749.2	16.6
50°-60°	683.7	15.2
60°-70°	543.6	12.1
70°-80°	349.5	7.8
80°-90°	150.4	3.3
90°-100°	31.3	0.7
100°-110°	32.2	0.7
110°-120°	30.3	0.7
120°-130°	19.7	0.4
130°-140°	11.7	0.3
140°-150°	6.6	0.1
150°-160°	3.9	0.1
160°-170°	1.6	0.0
170°-180°	0.4	0.0
0°-30°	1162.0	25.8
0°-40°	1890.0	42.0
0°-60°	3322.8	73.8
0°-90°	4366.2	96.9
90°-120°	93.9	2.1
90°-150°	131.9	2.9
90°-180°	138.0	3.1
0°-180°	4504.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1516	1516	1516	1516	1516	
5°	1498	1521	1507	1512	1498	142
15°	1427	1468	1457	1439	1427	402
25°	1295	1357	1344	1306	1295	597
35°	1123	1198	1188	1129	1123	703
45°	932	998	994	938	932	720
55°	726	794	790	727	726	649
65°	502	575	580	508	502	498
75°	283	352	357	284	283	301
85°	102	145	156	105	102	100
90°	23	82	92	18	23	23
95°	20	21	24	4	20	17
105°	42	27	29	32	42	38
115°	30	36	42	28	30	29
125°	11	28	26	29	11	11
135°	8	24	10	22	8	6
145°	4	16	4	15	4	3
155°	4	13	4	12	4	2
165°	4	6	4	6	4	1
175°	4	4	4	5	4	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7
5°	1497.6	1495.0	1499.2	1499.2	1520.9	1511.7	1513.5	1514.0	1507.3	1502.2	1507.0
10°	1469.4	1466.0	1472.9	1472.2	1502.4	1495.3	1496.9	1496.0	1489.3	1484.0	1489.5
15°	1426.7	1423.3	1432.5	1429.9	1467.8	1461.3	1462.7	1462.5	1456.7	1450.7	1456.3
20°	1367.6	1367.2	1375.5	1374.3	1418.2	1412.6	1414.9	1415.6	1405.0	1402.7	1407.8
25°	1294.7	1300.5	1305.5	1303.9	1356.8	1351.7	1354.9	1354.7	1344.1	1345.0	1345.7
30°	1213.4	1221.5	1228.0	1223.1	1280.4	1279.7	1282.0	1280.1	1272.1	1274.1	1272.5
35°	1123.4	1132.4	1138.4	1133.3	1197.5	1195.4	1198.0	1198.0	1187.8	1187.4	1191.3
40°	1029.7	1036.4	1042.4	1039.4	1101.3	1102.9	1109.3	1104.5	1092.7	1098.0	1099.9
45°	932.5	937.6	939.7	936.7	998.5	1004.5	1011.2	1006.4	993.9	1000.8	1002.0
50°	830.7	834.4	837.2	834.0	895.4	905.1	910.6	905.7	895.6	899.5	900.7
55°	725.9	725.0	733.1	732.9	794.3	799.3	807.4	804.4	790.3	794.7	801.2
60°	615.8	618.1	627.6	622.8	686.0	692.9	703.3	698.0	684.9	692.5	695.0
65°	502.0	511.7	518.9	511.7	574.7	589.3	593.9	592.8	580.1	586.3	588.4
70°	392.4	402.3	409.9	398.9	464.6	477.3	484.7	481.7	469.3	476.4	483.1
75°	283.2	295.0	300.8	292.2	352.0	365.6	376.0	370.2	356.6	369.8	371.9
80°	181.4	193.2	198.0	189.7	246.3	261.3	267.5	260.8	255.8	264.1	264.8
85°	102.3	113.3	113.1	106.9	145.4	162.0	169.7	162.7	155.8	166.4	168.3
90°	22.6	24.0	23.3	19.4	81.5	86.6	88.6	93.7	92.1	92.6	92.6
95°	20.1	18.9	15.0	13.6	21.2	20.3	23.8	23.8	23.8	23.1	20.8
100°	20.3	24.0	32.3	21.2	4.8	16.4	17.8	21.2	22.2	20.1	18.2
105°	42.5	39.9	34.6	26.1	27.0	27.7	36.0	36.7	28.6	34.9	34.2
110°	38.1	35.8	27.9	27.2	32.8	34.6	40.4	47.3	45.9	43.6	34.4
115°	29.8	28.9	21.2	26.3	35.5	30.9	37.4	41.1	42.5	40.9	33.2
120°	18.0	18.9	20.3	26.5	30.2	26.8	29.1	34.4	33.7	34.6	26.5
125°	10.6	15.0	18.5	24.5	28.2	23.8	23.3	24.7	25.6	23.8	22.4
130°	8.8	13.6	15.2	22.2	27.5	22.4	20.8	16.4	14.8	17.3	19.2
135°	7.6	12.0	12.5	18.2	24.2	20.5	14.1	13.4	10.2	14.8	13.6
140°	5.8	8.8	10.8	13.6	19.4	16.2	11.5	10.2	8.3	10.2	11.8
145°	4.2	7.8	10.2	12.7	15.5	13.4	11.5	6.9	3.7	8.3	11.8
150°	4.4	7.4	9.2	12.2	13.6	12.5	10.4	6.2	3.7	7.4	11.3
155°	4.2	6.5	8.1	10.4	12.7	11.5	9.2	6.0	4.2	6.7	9.2
160°	3.9	5.3	6.7	7.8	10.2	8.1	7.2	5.1	3.9	5.8	7.4
165°	3.9	4.6	5.8	5.1	6.0	5.8	5.8	4.6	3.9	5.1	6.5
170°	3.9	4.4	4.8	4.2	5.1	4.4	4.6	3.9	3.9	4.4	5.5
175°	4.4	4.2	4.4	4.6	4.4	4.4	3.9	3.9	3.9	3.9	4.4
180°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7
5°	1509.6	1511.7	1502.2	1504.5	1503.8	1497.6
10°	1489.0	1482.6	1472.9	1478.0	1475.7	1469.4
15°	1454.0	1438.7	1431.6	1435.0	1433.9	1426.7
20°	1405.0	1375.9	1374.5	1379.9	1377.3	1367.6
25°	1344.8	1306.5	1304.4	1310.2	1309.9	1294.7
30°	1270.7	1221.3	1227.1	1229.4	1230.1	1213.4
35°	1185.7	1129.4	1138.0	1139.8	1138.6	1123.4
40°	1094.3	1033.9	1040.5	1046.6	1040.5	1029.7
45°	996.0	938.5	938.8	944.5	941.1	932.5
50°	895.1	836.3	837.7	837.7	837.7	830.7
55°	792.2	727.3	732.6	736.3	733.6	725.9
60°	689.7	617.0	622.1	630.6	623.2	615.8
65°	582.4	507.8	508.7	521.2	515.7	502.0
70°	472.0	397.2	406.0	409.7	402.1	392.4
75°	361.0	283.9	298.0	304.0	292.0	283.2
80°	256.7	182.8	196.0	200.4	190.7	181.4
85°	158.6	104.8	112.4	115.6	109.4	102.3
90°	85.2	17.8	21.2	23.8	23.8	22.6
95°	19.6	3.7	16.6	15.2	19.2	20.1
100°	17.8	27.0	32.1	32.8	21.7	20.3
105°	24.9	32.5	25.2	36.7	38.5	42.5
110°	24.5	29.8	21.2	31.9	36.0	38.1
115°	21.5	27.7	23.8	24.5	27.7	29.8
120°	24.9	31.4	23.8	19.4	17.8	18.0
125°	25.2	28.9	20.5	18.0	12.9	10.6
130°	24.0	25.2	18.0	15.5	11.3	8.8
135°	20.8	21.7	14.3	11.5	10.2	7.6
140°	16.2	16.4	12.7	11.5	6.5	5.8
145°	12.9	14.8	13.2	10.6	6.0	4.2
150°	12.7	14.5	12.0	9.5	5.8	4.4
155°	12.5	12.0	9.7	7.6	5.3	4.2
160°	7.6	7.2	8.1	6.7	4.6	3.9
165°	6.2	6.2	6.9	6.7	4.4	3.9
170°	6.0	5.3	5.5	4.6	4.4	3.9
175°	4.2	5.1	4.4	4.2	4.6	4.4
180°	4.3	4.3	4.3	4.3	4.3	4.3



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)