

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: P855703

Luminaire Tested: **18SFS-L3C4-UNV-LOW-3000K**

Issue Date: 7/17/2024



Test Information

Test Method: LM-79-08
Report Number: P855703
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-3000K
Description: 1x8 Surround Frame Selectable - Architectural Slim LED Frame with,
LOW Lumen and 3000K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

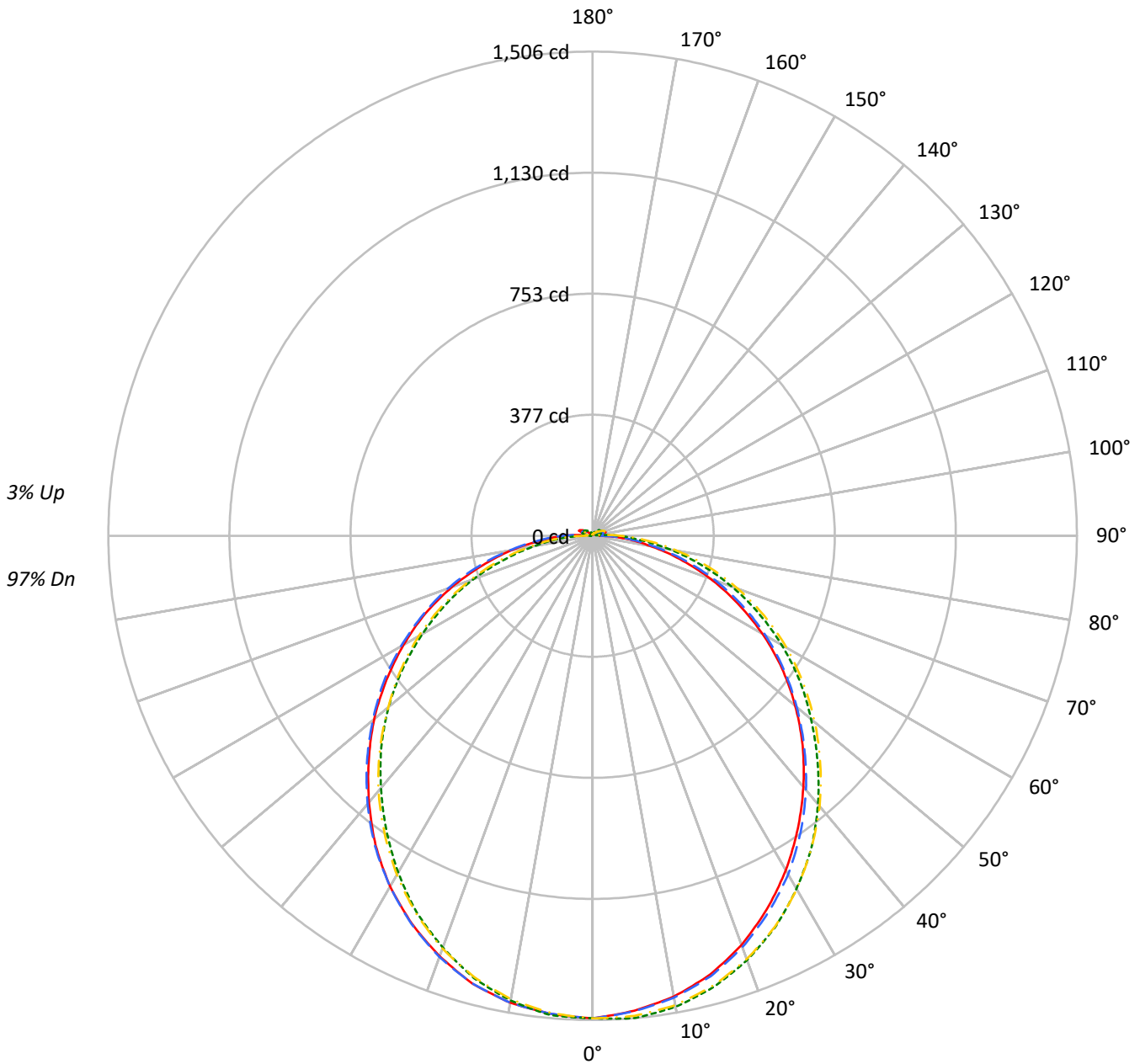
Lumens per Lamp: N/A
Luminaire Lumens: 4460.0 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.92' x L: 7.81' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2252	2252	2252	2252
5°	2234	2269	2248	2255
10°	2217	2267	2247	2237
15°	2195	2258	2241	2213
20°	2163	2243	2222	2176
25°	2123	2224	2204	2142
30°	2082	2197	2183	2096
35°	2038	2172	2155	2049
40°	1997	2136	2120	2006
45°	1960	2098	2089	1972
50°	1920	2070	2070	1933
55°	1881	2058	2047	1884
60°	1830	2039	2035	1834
65°	1765	2021	2040	1785
70°	1705	2019	2039	1726
75°	1626	2021	2047	1630
80°	1553	2108	2189	1564
85°	1744	2479	2657	1787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	3.2
10°-20°	403.6	9.0
20°-30°	605.4	13.6
30°-40°	720.9	16.2
40°-50°	741.8	16.6
50°-60°	677.0	15.2
60°-70°	538.3	12.1
70°-80°	346.1	7.8
80°-90°	148.9	3.3
90°-100°	31.0	0.7
100°-110°	31.9	0.7
110°-120°	30.0	0.7
120°-130°	19.5	0.4
130°-140°	11.6	0.3
140°-150°	6.5	0.1
150°-160°	3.8	0.1
160°-170°	1.6	0.0
170°-180°	0.4	0.0
0°-30°	1150.6	25.8
0°-40°	1871.5	42.0
0°-60°	3290.4	73.8
0°-90°	4323.6	96.9
90°-120°	93.0	2.1
90°-150°	130.6	2.9
90°-180°	136.0	3.0
0°-180°	4460.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1501	1501	1501	1501	1501	
5°	1483	1506	1492	1497	1483	141
15°	1413	1454	1442	1425	1413	398
25°	1282	1344	1331	1294	1282	591
35°	1112	1186	1176	1118	1112	696
45°	923	989	984	929	923	713
55°	719	786	783	720	719	642
65°	497	569	574	503	497	493
75°	280	349	353	281	280	298
85°	101	144	154	104	101	99
90°	22	81	91	18	22	23
95°	20	21	24	4	20	17
105°	42	27	28	32	42	38
115°	30	35	42	27	30	29
125°	10	28	25	29	10	11
135°	8	24	10	22	8	6
145°	4	15	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°	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8
5°	1482.9	1480.4	1484.5	1484.5	1506.0	1496.9	1498.7	1499.2	1492.5	1487.5	1492.3
10°	1455.1	1451.6	1458.5	1457.8	1487.7	1480.7	1482.3	1481.3	1474.7	1469.5	1474.9
15°	1412.8	1409.3	1418.5	1416.0	1453.5	1447.1	1448.4	1448.2	1442.5	1436.5	1442.0
20°	1354.3	1353.8	1362.0	1360.9	1404.3	1398.8	1401.1	1401.8	1391.3	1389.0	1394.0
25°	1282.0	1287.8	1292.8	1291.2	1343.5	1338.5	1341.7	1341.5	1330.9	1331.9	1332.6
30°	1201.6	1209.6	1216.0	1211.2	1267.9	1267.2	1269.5	1267.6	1259.6	1261.7	1260.1
35°	1112.4	1121.4	1127.3	1122.3	1185.8	1183.8	1186.3	1186.3	1176.2	1175.8	1179.6
40°	1019.6	1026.3	1032.2	1029.2	1090.5	1092.1	1098.5	1093.7	1082.0	1087.3	1089.1
45°	923.4	928.4	930.5	927.5	988.8	994.7	1001.4	996.6	984.2	991.1	992.2
50°	822.6	826.3	829.0	825.8	886.6	896.2	901.7	896.9	886.8	890.7	891.9
55°	718.8	717.9	725.9	725.7	786.5	791.5	799.5	796.6	782.6	787.0	793.4
60°	609.8	612.1	621.5	616.7	679.3	686.2	696.4	691.2	678.2	685.7	688.2
65°	497.1	506.7	513.8	506.7	569.1	583.5	588.1	587.0	574.4	580.6	582.6
70°	388.6	398.4	405.9	395.0	460.1	472.7	480.0	477.0	464.7	471.8	478.4
75°	280.5	292.1	297.8	289.4	348.6	362.1	372.3	366.6	353.1	366.2	368.2
80°	179.7	191.3	196.1	187.9	243.9	258.7	264.9	258.3	253.3	261.5	262.2
85°	101.3	112.2	112.0	105.8	144.0	160.5	168.0	161.1	154.3	164.8	166.6
90°	22.4	23.8	23.1	19.2	80.7	85.7	87.8	92.8	91.2	91.7	91.7
95°	19.9	18.7	14.9	13.5	21.0	20.1	23.5	23.5	23.5	22.9	20.6
100°	20.1	23.8	32.0	21.0	4.8	16.2	17.6	21.0	21.9	19.9	18.1
105°	42.1	39.5	34.3	25.8	26.7	27.4	35.7	36.3	28.3	34.5	33.8
110°	37.7	35.4	27.7	27.0	32.5	34.3	40.0	46.9	45.5	43.2	34.1
115°	29.5	28.6	21.0	26.1	35.2	30.6	37.0	40.7	42.1	40.5	32.9
120°	17.8	18.7	20.1	26.3	29.9	26.5	28.8	34.1	33.4	34.3	26.3
125°	10.5	14.9	18.3	24.2	27.9	23.5	23.1	24.5	25.4	23.5	22.2
130°	8.7	13.5	15.1	21.9	27.2	22.2	20.6	16.2	14.6	17.1	19.0
135°	7.5	11.9	12.3	18.1	24.0	20.3	13.9	13.3	10.1	14.6	13.5
140°	5.7	8.7	10.7	13.5	19.2	16.0	11.4	10.1	8.2	10.1	11.7
145°	4.1	7.8	10.1	12.6	15.3	13.3	11.4	6.9	3.7	8.2	11.7
150°	4.3	7.3	9.1	12.1	13.5	12.3	10.3	6.2	3.7	7.3	11.2
155°	4.1	6.4	8.0	10.3	12.6	11.4	9.1	5.9	4.1	6.6	9.1
160°	3.9	5.3	6.6	7.8	10.1	8.0	7.1	5.0	3.9	5.7	7.3
165°	3.9	4.6	5.7	5.0	5.9	5.7	5.7	4.6	3.9	5.0	6.4
170°	3.9	4.3	4.8	4.1	5.0	4.3	4.6	3.9	3.9	4.3	5.5
175°	4.3	4.1	4.3	4.6	4.3	4.3	3.9	3.9	3.9	3.9	4.3
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°	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8
5°	1494.8	1496.9	1487.5	1489.8	1489.1	1482.9
10°	1474.5	1468.1	1458.5	1463.5	1461.2	1455.1
15°	1439.7	1424.7	1417.6	1421.0	1419.9	1412.8
20°	1391.3	1362.5	1361.1	1366.4	1363.9	1354.3
25°	1331.6	1293.7	1291.6	1297.4	1297.1	1282.0
30°	1258.3	1209.4	1215.1	1217.4	1218.0	1201.6
35°	1174.2	1118.4	1126.8	1128.7	1127.5	1112.4
40°	1083.6	1023.8	1030.4	1036.3	1030.4	1019.6
45°	986.3	929.4	929.6	935.3	931.9	923.4
50°	886.4	828.1	829.5	829.5	829.5	822.6
55°	784.4	720.2	725.5	729.1	726.4	718.8
60°	683.0	611.0	616.0	624.4	617.1	609.8
65°	576.7	502.8	503.8	516.1	510.6	497.1
70°	467.4	393.4	402.1	405.7	398.2	388.6
75°	357.5	281.1	295.1	301.0	289.1	280.5
80°	254.2	181.0	194.1	198.4	188.8	179.7
85°	157.0	103.8	111.3	114.5	108.3	101.3
90°	84.3	17.6	21.0	23.5	23.5	22.4
95°	19.4	3.7	16.5	15.1	19.0	19.9
100°	17.6	26.7	31.8	32.5	21.5	20.1
105°	24.7	32.2	24.9	36.3	38.2	42.1
110°	24.2	29.5	21.0	31.5	35.7	37.7
115°	21.3	27.4	23.5	24.2	27.4	29.5
120°	24.7	31.1	23.5	19.2	17.6	17.8
125°	24.9	28.6	20.3	17.8	12.8	10.5
130°	23.8	24.9	17.8	15.3	11.2	8.7
135°	20.6	21.5	14.2	11.4	10.1	7.5
140°	16.0	16.2	12.6	11.4	6.4	5.7
145°	12.8	14.6	13.0	10.5	5.9	4.1
150°	12.6	14.4	11.9	9.4	5.7	4.3
155°	12.3	11.9	9.6	7.5	5.3	4.1
160°	7.5	7.1	8.0	6.6	4.6	3.9
165°	6.2	6.2	6.9	6.6	4.3	3.9
170°	5.9	5.3	5.5	4.6	4.3	3.9
175°	4.1	5.0	4.3	4.1	4.6	4.3
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)