

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: P855741

Luminaire Tested: **24SFS-L3C4-NUV-LOW-4000K**

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855741
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-NUV-LOW-4000K
Description: 2x4 Surround Frame Selectable - Architectural Slim LED Frame with,
LOW Lumen and 4000K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

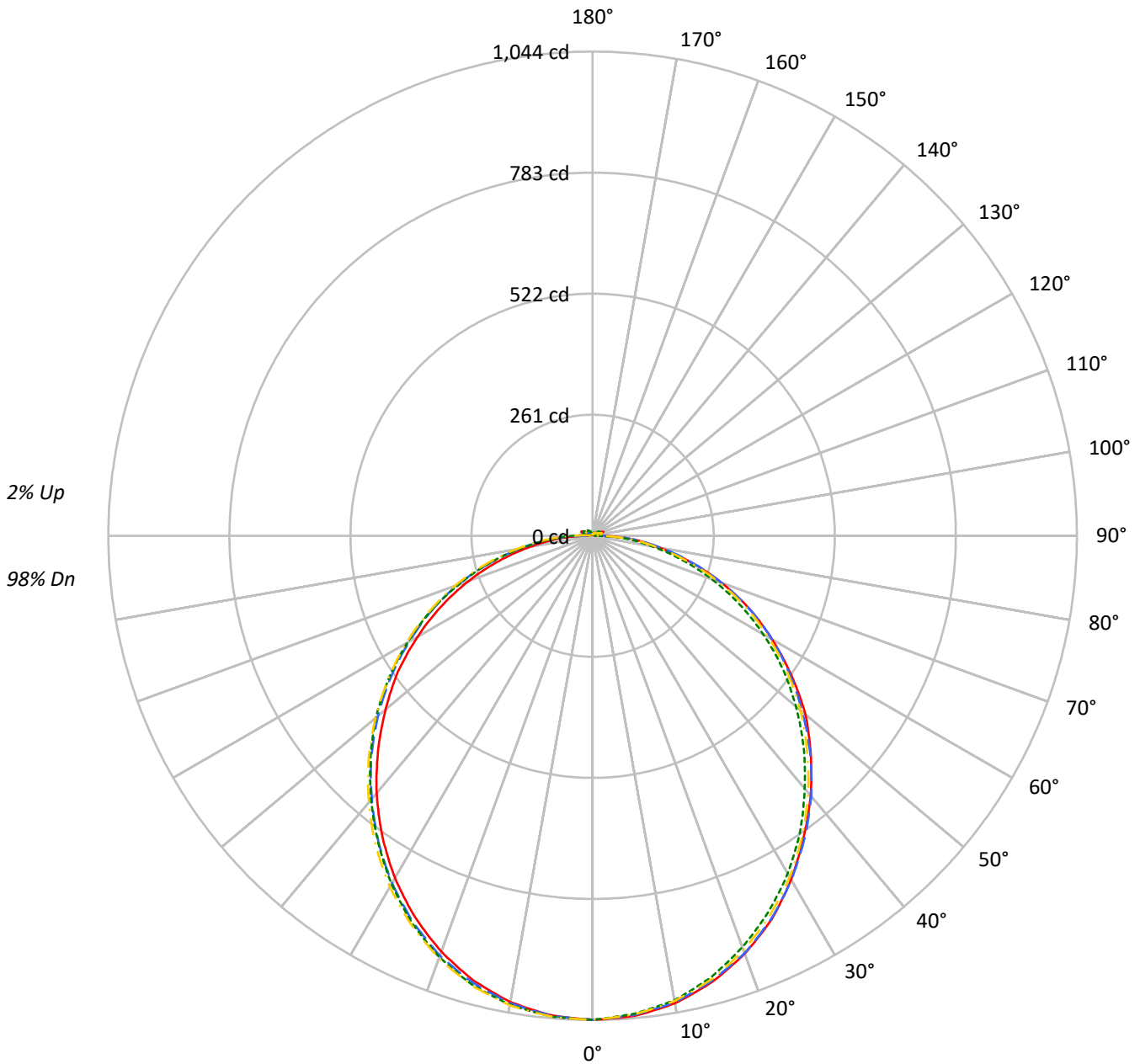
Lumens per Lamp: N/A
Luminaire Lumens: 3045.0 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.35
Luminous Opening: Rectangular (W 1.9' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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°	1512	1512	1512	1512
5°	1512	1504	1509	1513
10°	1506	1496	1502	1510
15°	1494	1478	1489	1504
20°	1479	1455	1471	1490
25°	1459	1432	1449	1473
30°	1432	1407	1426	1450
35°	1403	1379	1399	1426
40°	1383	1345	1370	1405
45°	1362	1318	1340	1388
50°	1350	1289	1313	1374
55°	1319	1264	1295	1354
60°	1294	1229	1263	1336
65°	1279	1197	1234	1322
70°	1251	1157	1201	1301
75°	1216	1106	1167	1300
80°	1205	1065	1132	1309
85°	1436	1182	1260	1554



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	3.2
10°-20°	280.6	9.2
20°-30°	420.2	13.8
30°-40°	499.3	16.4
40°-50°	512.9	16.8
50°-60°	466.6	15.3
60°-70°	368.7	12.1
70°-80°	233.8	7.7
80°-90°	92.4	3.0
90°-100°	10.6	0.3
100°-110°	18.2	0.6
110°-120°	17.0	0.6
120°-130°	10.2	0.3
130°-140°	6.8	0.2
140°-150°	4.8	0.2
150°-160°	2.8	0.1
160°-170°	1.1	0.0
170°-180°	0.3	0.0
0°-30°	799.3	26.3
0°-40°	1298.6	42.6
0°-60°	2278.2	74.8
0°-90°	2973.1	97.6
90°-120°	45.9	1.5
90°-150°	67.7	2.2
90°-180°	72.0	2.4
0°-180°	3045.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1044	1044	1044	1044	1044	
5°	1039	1034	1038	1040	1039	99
15°	996	986	993	1002	996	281
25°	913	896	907	921	913	420
35°	793	780	791	806	793	497
45°	665	643	654	677	665	514
55°	522	500	513	536	522	468
65°	373	349	360	386	373	369
75°	217	198	208	232	217	231
85°	86	71	76	94	86	81
90°	15	5	10	38	15	16
95°	4	2	7	13	4	5
105°	17	20	23	21	17	17
115°	19	18	23	22	19	19
125°	6	16	6	19	6	7
135°	3	12	2	18	3	2
145°	3	10	2	13	3	2
155°	3	9	3	10	3	1
165°	3	4	3	5	3	1
175°	2	3	3	4	2	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6
5°	1039.4	1034.3	1036.9	1036.9	1034.3	1031.7	1035.9	1036.7	1037.7	1034.9	1038.2
10°	1023.5	1018.7	1021.2	1019.9	1016.8	1013.3	1018.2	1020.2	1020.9	1019.1	1023.3
15°	996.0	992.5	993.0	992.0	985.5	983.9	990.2	993.0	992.7	993.3	997.8
20°	959.1	955.7	957.7	953.9	943.9	946.7	951.1	953.7	954.2	957.2	963.1
25°	912.8	909.8	911.2	907.4	895.8	898.9	903.5	908.0	906.7	911.8	917.9
30°	856.1	856.0	856.8	854.2	841.2	843.2	849.6	853.2	852.2	859.3	864.8
35°	793.1	797.2	796.5	792.0	779.5	781.8	788.5	791.1	790.7	799.2	805.1
40°	731.2	731.5	733.2	725.2	711.1	717.5	723.0	723.8	724.3	733.5	740.6
45°	664.9	662.0	663.1	657.2	643.1	648.2	653.4	656.1	653.9	664.4	674.6
50°	598.9	590.7	589.9	586.0	571.9	576.8	584.5	585.2	582.4	595.0	603.5
55°	522.0	521.3	517.9	515.1	500.2	505.6	511.7	512.3	512.6	520.7	530.8
60°	446.7	446.3	447.1	440.3	424.2	431.6	437.5	437.8	435.8	449.1	456.6
65°	373.1	369.5	372.3	366.3	349.2	355.9	364.3	363.5	359.9	371.8	383.5
70°	295.2	294.7	295.5	288.2	273.1	279.2	287.2	286.9	283.4	297.5	309.3
75°	217.3	221.9	220.2	212.8	197.6	205.6	211.0	210.1	208.4	220.7	230.2
80°	144.4	149.3	150.0	140.5	127.7	134.4	139.3	139.2	135.7	148.3	159.0
85°	86.4	88.4	88.4	81.2	71.1	76.5	82.0	79.4	75.8	87.9	94.0
90°	14.9	6.2	6.1	5.7	5.2	6.7	8.5	9.3	9.7	12.4	16.0
95°	3.8	4.4	4.4	7.5	2.0	6.4	5.1	6.9	7.4	7.0	5.9
100°	3.4	3.9	14.9	16.0	15.1	16.0	17.4	7.0	6.9	6.7	12.0
105°	17.4	19.6	20.5	16.4	20.5	17.5	21.0	21.8	22.8	21.4	22.4
110°	24.9	20.0	16.0	14.4	19.0	15.2	17.5	21.0	25.4	23.6	21.9
115°	19.2	15.7	10.2	12.8	17.5	14.4	12.4	18.8	23.2	22.1	16.4
120°	13.8	12.1	7.2	12.4	16.5	13.6	8.5	13.3	14.6	14.6	12.4
125°	6.5	7.9	7.4	12.1	15.7	12.3	8.0	6.5	5.7	7.2	12.3
130°	2.5	7.4	7.7	10.6	13.8	10.8	7.4	6.1	2.5	6.9	11.3
135°	2.8	7.0	6.7	9.7	12.4	8.4	6.7	5.6	2.5	6.4	10.0
140°	2.5	6.5	9.2	8.0	11.5	7.7	7.9	5.2	2.5	6.1	8.5
145°	2.6	5.9	9.7	8.7	9.8	9.5	8.0	4.9	2.5	5.6	7.7
150°	2.5	5.1	8.4	8.8	10.2	9.5	7.4	4.7	2.6	5.2	6.9
155°	2.6	4.7	6.9	7.9	8.8	7.0	5.6	4.1	2.6	4.7	6.2
160°	2.8	3.9	4.9	5.7	5.2	5.4	4.6	3.4	2.5	4.1	5.4
165°	2.6	3.1	3.6	3.1	4.3	3.3	3.3	2.8	2.6	3.4	4.6
170°	2.6	2.8	2.9	3.1	4.3	3.8	2.9	2.6	2.6	3.1	3.8
175°	2.5	2.6	2.9	3.3	3.3	3.1	2.9	3.1	3.1	3.1	3.3
180°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6
5°	1039.7	1040.2	1036.6	1040.3	1039.7	1039.4
10°	1025.6	1026.6	1024.0	1028.2	1025.6	1023.5
15°	1000.7	1002.5	999.4	1004.2	1001.0	996.0
20°	965.4	966.7	966.3	969.4	965.7	959.1
25°	920.8	921.3	922.9	925.2	921.3	912.8
30°	868.8	866.9	871.2	874.3	867.6	856.1
35°	808.8	806.4	810.5	815.4	809.2	793.1
40°	743.2	743.0	749.9	750.5	744.0	731.2
45°	674.1	677.2	681.0	683.1	674.1	664.9
50°	603.5	609.7	609.6	610.7	602.5	598.9
55°	532.9	536.1	538.0	537.9	532.9	522.0
60°	458.9	461.2	466.0	465.0	459.4	446.7
65°	383.9	385.6	388.5	390.3	382.5	373.1
70°	306.8	307.0	313.1	316.5	305.4	295.2
75°	232.3	232.2	237.9	240.4	231.8	217.3
80°	158.0	156.9	166.2	166.2	156.2	144.4
85°	92.3	93.5	100.7	102.7	95.3	86.4
90°	26.4	38.0	40.0	36.8	25.5	14.9
95°	8.4	13.3	8.5	5.2	4.6	3.8
100°	9.3	5.2	11.6	5.7	3.6	3.4
105°	18.2	20.8	18.8	18.3	18.2	17.4
110°	19.8	21.9	17.2	19.5	21.3	24.9
115°	19.2	21.8	17.7	17.7	18.2	19.2
120°	18.3	19.8	16.9	12.8	15.2	13.8
125°	17.7	19.3	16.0	12.6	7.9	6.5
130°	16.9	18.7	15.2	11.8	6.1	2.5
135°	14.4	18.0	12.8	9.8	6.1	2.8
140°	11.5	14.2	11.6	8.7	5.6	2.5
145°	10.3	12.8	9.8	8.8	5.2	2.6
150°	9.3	11.0	8.7	7.9	4.7	2.5
155°	7.2	10.0	7.4	6.4	4.4	2.6
160°	5.6	5.6	5.7	5.4	3.9	2.8
165°	4.7	4.9	4.7	4.4	3.4	2.6
170°	4.4	4.9	4.3	3.6	2.9	2.6
175°	3.3	4.3	3.3	2.8	2.8	2.5
180°	2.9	2.9	2.9	2.9	2.9	2.9



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)